

```

#=====
data_global
#=====

# 1. SUBMISSION DETAILS

_publ_contact_author_name 'Richard J. Reeder'
_publ_contact_author_address
;
Department of Geosciences and Center for Environmental Molecular Science
Stony Brook University
Stony Brook, NY 11794
USA
;
_publ_contact_author_email      rjreeder@stonybrook.edu

_publ_requested_journal      'American Mineralogist'

#=====

# 3. TITLE AND AUTHOR LIST

_publ_section_title
;
Arsenate Substitution in Hydroxylapatite: Structural Characterization of the
Ca5(Px As1-x O4)3 OH Solid Solution
;
_publ_section_title_footnote
; ?
;

# The loop structure below should contain the names and addresses of all
# authors, in the required order of publication. Repeat as necessary.

loop_
_publ_author_name
_publ_author_address
'Young J. Lee'
;
Department of Earth and Environmental Sciences
Korea University, Seoul 136-701,
Korea
;
'Peter W. Stephens'
;
Department of Physics and Astronomy
Stony Brook University
Stony Brook
NY 11794-3800
USA
;
'Yuanzhi Tang'
;

```

Department of Geosciences and Center for Environmental Molecular Science
Stony Brook University
Stony Brook, NY 11794
USA

;
'Brian L. Phillips'

;
Department of Geosciences and Center for Environmental Molecular Science
Stony Brook University
Stony Brook, NY 11794
USA

;
'John B. Parise'

;
Department of Geosciences and Center for Environmental Molecular Science
Stony Brook University
Stony Brook, NY 11794
USA

;
'Richard J. Reeder'

;
Department of Geosciences and Center for Environmental Molecular Science
Stony Brook University
Stony Brook, NY 11794
USA

;
#=====

data_As0

5. CHEMICAL DATA

_chemical_name_common 'calcium arsenic phosphorus hydroxylapatite'
_chemical_formula_structural 'Ca5 (P3 O4)3 OH'
_chemical_formula_sum 'Ca5 H O13 P3'
_chemical_formula_weight 502.3

loop_
 _atom_type_symbol
 _atom_type_description
 _atom_type_scatter_dispersion_real
 _atom_type_scatter_dispersion_imag
 _atom_type_scatter_source
 _atom_type_scatter_length_neutron # include if applicable
? ? ? ? ? ?

#=====

6. POWDER SPECIMEN AND CRYSTAL DATA

_space_group_crystal_system hexagonal
_space_group_name_H-M_alt 'P63/m'

```

loop_
  _symmetry_equiv_pos_site_id
  _symmetry_equiv_pos_as_xyz      #<--must include 'x,y,z'
1 '-x, -y, -z'
2 '-x, -y, z+1/2'
3 '-x+y, -x, -z+1/2'
4 '-x+y, -x, z'
5 '-y, x-y, -z+1/2'
6 '-y, x-y, z'
7 'y, -x+y, -z'
8 'y, -x+y, z+1/2'
9 'x-y, x, -z'
10 'x-y, x, z+1/2'
11 'x, y, -z+1/2'
12 'x, y, z'

_cell_length_a 9.4212(3)
_cell_length_b 9.4212(3)
_cell_length_c 6.8927(2)
_cell_angle_alpha 90
_cell_angle_beta 90
_cell_angle_gamma 120
_cell_volume 529.83(3)
_cell_measurement_temperature 293
_cell_special_details
; ?
;

# The next three fields give the specimen dimensions in mm. The equatorial
# plane contains the incident and diffracted beam.

_pd_spec_size_axial      8      # perpendicular to
                             # equatorial plane

_pd_spec_size_equat      1      # parallel to
                             # scattering vector
                             # in transmission

_pd_spec_size_thick      1      # parallel to
                             # scattering vector
                             # in reflection

# The next five fields are character fields that describe the specimen.

_pd_spec_mounting        # This field should be
                             # used to give details of the
                             # container.
;
glass capillary(nominal diameter 1mm)
;
_pd_spec_mount_mode      transmission      # options are 'reflection'
                             # or 'transmission'

_pd_spec_shape            cylinder      # options are 'cylinder'

```

'flat_sheet' or 'irregular'

_pd_char_particle_morphology ?
_pd_char_colour white # use ICDD colour descriptions

The next four fields are normally only needed for transmission experiments.

_exptl_absorpt_correction_type none # include if applicable

#=====

7. EXPERIMENTAL DATA

_exptl_special_details

; ?

;

_pd_instr_location

;

X16C, National Synchrotron Light Source, Brookhaven National Laboratory

;

_pd_calibration_special_details # description of the method used
to calibrate the instrument

;

NIST standard reference material 1976(sintered plate of Al₂O₃)

7 isolated reflections were used to calibrate wavelength and detector zero.

;

_diffrn_ambient_temperature 293

_diffrn_source synchrotron

_diffrn_source_target ?

_diffrn_source_type ?

_diffrn_radiation_type synchrotron

_diffrn_measurement_device_type 'Huber diffractometer'

_diffrn_detector 'NaI scintillation counter'

_diffrn_detector_type ? # make or model of detector

_pd_meas_scan_method step # options are 'step', 'cont',

'tof', 'fixed' or

'disp' (= dispersive)

_pd_meas_special_details

; ?

;

The following six items are used for angular dispersive measurements only.

_diffrn_radiation_wavelength 0.69707

_diffrn_radiation_monochromator 'Si(111) double reflection monochromator'

The following four items give details of the measured (not processed)

powder pattern. Angles are in degrees.

_pd_meas_number_of_points 3830

_pd_meas_2theta_range_min 2.00

_pd_meas_2theta_range_max 40.29
_pd_meas_2theta_range_inc .01

#=====

8. REFINEMENT DATA

Use the next field to give any special details about the fitting of the
powder pattern.

_pd_proc_ls_special_details
;
Rietveld refinement of all structural parameters.
H atom omitted
One common thermal parameter for all atoms
;

The next three items are given as text.

_pd_proc_ls_profile_function
;
Simple_Axial_Model function in TOPAS
Anisotropic strain broadening 3 parameters refined
;
_pd_proc_ls_background_function
;
Chebyshev polynomial of 7th order plus 1/2theta
;
_pd_proc_ls_pref_orient_corr 'none'

_pd_proc_ls_prof_R_factor 0.06898
_pd_proc_ls_prof_wR_factor 0.08958
_pd_proc_ls_prof_wR_expected 0.07506
_refine_ls_R_I_factor ?
_refine_ls_R_Fsqd_factor ?
_refine_ls_R_factor_all ?

_refine_special_details
; ?
;

_refine_ls_matrix_type ?
_refine_ls_weighting_scheme sigma # options are 'sigma' (based on measured su's)
or 'calc' (calculated weights)
_refine_ls_weighting_details '1/(sigma*sigma)'
_refine_ls_hydrogen_treatment none
_refine_ls_extinction_method 'none'
_refine_ls_extinction_coef ?
_refine_ls_number_parameters 34
_refine_ls_number_restraints ?
_refine_ls_number_constraints ?

The following item is the same as CHI, the square root of 'CHI squared'

_refine_ls_goodness_of_fit_all 1.193

_refine_ls_restrained_S_all ?

_refine_ls_shift/su_max ?

_refine_ls_shift/su_mean ?

The following four items apply to angular dispersive measurements.

2theta minimum, maximum and increment (in degrees) are for the

intensities used in the refinement.

_pd_proc_2theta_range_min 2.0

_pd_proc_2theta_range_max 40.29

_pd_proc_2theta_range_inc 0.01

_pd_proc_wavelength 0.69707

Each refinement must be accompanied by a listing of the powder data

in CIF format. Each listing should be sent as a separate file consisting

of one data block containing a single powder profile. The value of

_pd_block_diffraction_id is used to associate each refinement with

its corresponding powder profile, since it must match the value

of _pd_block_id in the file containing the powder data. A template

for supplying powder data in CIF format is available by ftp at

<ftp://ftp.iucr.org/pub/rietdataform.cif> and an example is given

at <ftp://ftp.iucr.org/pub/rietdataxmpl.cif>.

_pd_block_diffraction_id HAP_As0_profile

Give appropriate details in the next two text fields.

_pd_proc_info_excluded_regions 'none'

_pd_proc_info_data_reduction ?

The following items are used to identify the programs used.

_computing_data_collection SPEC

_computing_cell_refinement TOPAS

_computing_data_reduction ?

_computing_structure_solution ?

_computing_structure_refinement TOPAS

_computing_molecular_graphics ?

_computing_publication_material ?

#=====

9. ATOMIC COORDINATES AND DISPLACEMENT PARAMETERS

loop_

_atom_site_label

_atom_site_type_symbol

_atom_site_symmetry_multiplicity

_atom_site_fract_x

_atom_site_fract_y
_atom_site_fract_z
_atom_site_occupancy
_atom_site_B_iso_or_equiv
O1 O 6 0.32694(80) 0.48259(78) 0.25 1 0.542(35)
O2 O 6 0.58687(81) 0.46621(83) 0.25 1 0.542(35)
O3 O 12 0.34163(50) 0.25520(57) 0.06978(59) 1 0.542(35)
P1 P 6 0.39717(41) 0.36792(38) 0.25 1 0.542(35)
Ca1 Ca 4 0.3333333 0.6666667 0.00097(54) 1 0.542(35)
Ca2 Ca 6 0.24642(31) 0.99283(38) 0.25 1 0.542(35)
O4 O 4 0 0 0.1978(18) 0.5 0.542(35)

#=====

CIF submission form for powder diffraction data (IUCr journals) ###
Version 11 February 2005 ###
#####

This is an electronic "form" for submitting powder diffraction data in CIF
format to an IUCr journal. The data for each powder profile should be sent
as a separate file consisting of one data block. The value of _pd_block_id
is used to associate each powder profile with a Rietveld refinement, since
it must match the value of _pd_block_diffraction_id in the CIF used to
report the results of the refinement. The current version of the powder
CIF dictionary, which contains definitions of the terms starting _pd_,
may be obtained from <http://www.iucr.org/iucr-top/cif/pd/index.html>.
Note that the query marks '?' are significant as placeholders, and should
not be deleted where a data item is not given, UNLESS the accompanying data
name is also deleted. Lines should not exceed 80 characters in length. The
comments following a hash symbol '#' may be deleted if wished.

data_HAP_As0_pattern

_pd_block_id HAP_As0_pattern

loop_
_pd_proc_2theta_corrected
_pd_proc_intensity_net
_pd_calc_intensity_net
_pd_proc_ls_weight
2.000 647 643 0.0008353
2.010 728 639 0.0007425
2.020 679 635 0.0007935
2.030 688 630 0.0007846
2.040 703 626 0.0007673
2.050 679 622 0.0007935
2.060 672 618 0.0008025
2.070 636 614 0.0008500
2.080 610 610 0.0008858
2.090 644 606 0.0008353
2.100 594 602 0.0009072

2.110	624	598	0.0008651
2.120	583	595	0.0009239
2.130	566	591	0.0009526
2.140	570	587	0.0009467
2.150	557	583	0.0009705
2.160	618	580	0.0008702
2.170	583	576	0.0009239
2.180	566	573	0.0009526
2.190	622	569	0.0008651
2.200	605	566	0.0008911
2.210	540	562	0.0009951
2.220	574	559	0.0009409
2.230	600	555	0.0008964
2.240	574	552	0.0009352
2.250	574	549	0.0009352
2.260	546	545	0.0009827
2.270	597	542	0.0009018
2.280	550	539	0.0009766
2.290	606	536	0.0008911
2.300	531	533	0.0010142
2.310	574	530	0.0009352
2.320	550	527	0.0009766
2.330	481	524	0.0011186
2.340	498	521	0.0010821
2.350	489	518	0.0011037
2.360	532	515	0.0010142
2.370	549	512	0.0009827
2.380	472	509	0.0011413
2.390	502	506	0.0010750
2.400	470	503	0.0011413
2.410	517	500	0.0010406
2.420	465	498	0.0011569
2.430	463	495	0.0011648
2.440	512	492	0.0010541
2.450	463	489	0.0011648
2.460	508	487	0.0010610
2.470	493	484	0.0010892
2.480	521	481	0.0010339
2.490	462	479	0.0011648
2.500	504	476	0.0010680
2.510	463	474	0.0011569
2.520	441	471	0.0012226
2.530	428	469	0.0012575
2.540	432	466	0.0012486
2.550	523	464	0.0010273
2.560	458	462	0.0011728
2.570	441	459	0.0012140
2.580	453	457	0.0011891
2.590	412	454	0.0013033
2.600	399	452	0.0013418
2.610	472	450	0.0011413
2.620	479	448	0.0011186
2.630	445	445	0.0012056
2.640	391	443	0.0013717

2.650	376	441	0.0014240
2.660	412	439	0.0013033
2.670	444	436	0.0012056
2.680	418	434	0.0012847
2.690	409	432	0.0013127
2.700	433	430	0.0012398
2.710	435	428	0.0012311
2.720	418	426	0.0012847
2.730	446	424	0.0012056
2.740	362	422	0.0014793
2.750	414	420	0.0012939
2.760	386	418	0.0013820
2.770	398	416	0.0013516
2.780	401	414	0.0013320
2.790	413	412	0.0012939
2.800	386	410	0.0013820
2.810	400	408	0.0013418
2.820	452	406	0.0011809
2.830	383	404	0.0014027
2.840	376	402	0.0014240
2.850	381	401	0.0014027
2.860	390	399	0.0013717
2.870	432	397	0.0012398
2.880	402	395	0.0013320
2.890	407	393	0.0013127
2.900	340	392	0.0015747
2.910	381	390	0.0014027
2.920	363	388	0.0014793
2.930	381	386	0.0014027
2.940	367	385	0.0014568
2.950	380	383	0.0014133
2.960	423	381	0.0012664
2.970	359	380	0.0014907
2.980	365	378	0.0014680
2.990	387	377	0.0013820
3.000	363	375	0.0014680
3.010	380	373	0.0014027
3.020	320	372	0.0016660
3.030	359	370	0.0014907
3.040	354	369	0.0015140
3.050	341	367	0.0015623
3.060	363	366	0.0014680
3.070	378	364	0.0014133
3.080	341	363	0.0015623
3.090	367	361	0.0014568
3.100	367	360	0.0014568
3.110	367	358	0.0014568
3.120	319	357	0.0016797
3.130	341	355	0.0015623
3.140	384	354	0.0013923
3.150	332	352	0.0016129
3.160	334	351	0.0016000
3.170	347	350	0.0015379
3.180	283	348	0.0018904

3.190	328	347	0.0016259
3.200	398	345	0.0013418
3.210	324	344	0.0016391
3.220	272	343	0.0019579
3.230	321	341	0.0016660
3.240	297	340	0.0017955
3.250	370	339	0.0014457
3.260	372	338	0.0014348
3.270	263	336	0.0020291
3.280	338	335	0.0015747
3.290	402	334	0.0013223
3.300	329	333	0.0016259
3.310	299	331	0.0017803
3.320	310	330	0.0017217
3.330	297	329	0.0017955
3.340	323	328	0.0016525
3.350	364	326	0.0014568
3.360	334	325	0.0015873
3.370	314	324	0.0016935
3.380	297	323	0.0017955
3.390	295	322	0.0017955
3.400	291	321	0.0018263
3.410	312	320	0.0017075
3.420	299	318	0.0017803
3.430	312	317	0.0017075
3.440	306	316	0.0017361
3.450	305	315	0.0017507
3.460	282	314	0.0018904
3.470	293	313	0.0018108
3.480	288	312	0.0018420
3.490	325	311	0.0016391
3.500	310	310	0.0017075
3.510	301	309	0.0017654
3.520	312	308	0.0017075
3.530	284	307	0.0018740
3.540	280	306	0.0018904
3.550	341	305	0.0015623
3.560	284	304	0.0018740
3.570	337	303	0.0015747
3.580	284	302	0.0018740
3.590	297	301	0.0017803
3.600	288	300	0.0018420
3.610	331	299	0.0016000
3.620	288	298	0.0018420
3.630	294	297	0.0018108
3.640	311	296	0.0017075
3.650	311	295	0.0017075
3.660	294	294	0.0018108
3.670	264	293	0.0020109
3.680	307	292	0.0017217
3.690	275	291	0.0019237
3.700	290	290	0.0018263
3.710	349	290	0.0015259
3.720	270	289	0.0019753

3.730	309	288	0.0017217
3.740	330	287	0.0016129
3.750	283	286	0.0018740
3.760	305	285	0.0017361
3.770	279	284	0.0019069
3.780	279	284	0.0019069
3.790	309	283	0.0017075
3.800	253	282	0.0021042
3.810	317	281	0.0016797
3.820	313	280	0.0016935
3.830	300	279	0.0017654
3.840	287	279	0.0018579
3.850	262	278	0.0020291
3.860	262	277	0.0020291
3.870	343	276	0.0015500
3.880	298	276	0.0017803
3.890	290	275	0.0018263
3.900	230	274	0.0023114
3.910	251	273	0.0021042
3.920	309	273	0.0017075
3.930	281	272	0.0018904
3.940	270	271	0.0019579
3.950	308	270	0.0017217
3.960	309	270	0.0017075
3.970	321	269	0.0016525
3.980	274	268	0.0019407
3.990	306	268	0.0017361
4.000	287	267	0.0018420
4.010	253	266	0.0020850
4.020	279	266	0.0018904
4.030	296	265	0.0017803
4.040	268	264	0.0019753
4.050	253	264	0.0020850
4.060	274	263	0.0019407
4.070	236	262	0.0022461
4.080	270	262	0.0019579
4.090	281	261	0.0018904
4.100	300	261	0.0017654
4.110	257	260	0.0020661
4.120	257	260	0.0020661
4.130	270	259	0.0019579
4.140	232	259	0.0022893
4.150	268	258	0.0019753
4.160	304	258	0.0017361
4.170	247	257	0.0021433
4.180	276	257	0.0019237
4.190	296	256	0.0017803
4.200	247	255	0.0021433
4.210	261	255	0.0020291
4.220	276	254	0.0019237
4.230	321	254	0.0016525
4.240	272	253	0.0019407
4.250	283	253	0.0018740
4.260	261	252	0.0020291

4.270	291	252	0.0018263
4.280	272	251	0.0019407
4.290	234	251	0.0022676
4.300	227	251	0.0023338
4.310	283	250	0.0018740
4.320	308	250	0.0017217
4.330	253	249	0.0020850
4.340	261	249	0.0020291
4.350	264	248	0.0020109
4.360	289	248	0.0018263
4.370	266	248	0.0019930
4.380	229	247	0.0023114
4.390	265	247	0.0019930
4.400	247	247	0.0021433
4.410	280	246	0.0018904
4.420	253	246	0.0020850
4.430	263	246	0.0020109
4.440	255	245	0.0020850
4.450	261	245	0.0020291
4.460	280	245	0.0018904
4.470	259	245	0.0020475
4.480	278	245	0.0019069
4.490	278	245	0.0019069
4.500	261	245	0.0020291
4.510	223	245	0.0023795
4.520	244	245	0.0021633
4.530	246	245	0.0021633
4.540	276	246	0.0019237
4.550	261	246	0.0020291
4.560	251	247	0.0021042
4.570	295	248	0.0017955
4.580	282	249	0.0018740
4.590	255	251	0.0020661
4.600	263	254	0.0020109
4.610	285	258	0.0018579
4.620	274	262	0.0019407
4.630	289	267	0.0018263
4.640	257	272	0.0020661
4.650	280	278	0.0018904
4.660	318	284	0.0016660
4.670	261	291	0.0020291
4.680	312	299	0.0016935
4.690	272	307	0.0019407
4.700	350	315	0.0015140
4.710	353	325	0.0015023
4.720	314	335	0.0016935
4.730	393	346	0.0013516
4.740	404	359	0.0013127
4.750	355	373	0.0014907
4.760	402	388	0.0013127
4.770	363	405	0.0014568
4.780	398	424	0.0013320
4.790	474	446	0.0011186
4.800	499	471	0.0010610

4.810	487	500	0.0010892
4.820	495	534	0.0010680
4.830	586	574	0.0009018
4.840	623	621	0.0008500
4.850	631	678	0.0008402
4.860	735	743	0.0007188
4.870	631	811	0.0008402
4.880	663	855	0.0007980
4.890	626	826	0.0008451
4.900	612	706	0.0008651
4.910	514	564	0.0010273
4.920	438	457	0.0012056
4.930	389	388	0.0013616
4.940	359	344	0.0014793
4.950	348	314	0.0015259
4.960	278	294	0.0019069
4.970	289	280	0.0018263
4.980	297	269	0.0017803
4.990	318	261	0.0016660
5.000	244	254	0.0021633
5.010	272	249	0.0019407
5.020	234	245	0.0022676
5.030	265	242	0.0019930
5.040	232	239	0.0022676
5.050	202	236	0.0026298
5.060	215	234	0.0024507
5.070	263	232	0.0020109
5.080	276	231	0.0019237
5.090	195	229	0.0027127
5.100	231	228	0.0022893
5.110	274	227	0.0019237
5.120	219	226	0.0024029
5.130	212	225	0.0025000
5.140	253	224	0.0020850
5.150	208	223	0.0025508
5.160	191	222	0.0027701
5.170	170	221	0.0031210
5.180	221	221	0.0024029
5.190	202	220	0.0026298
5.200	232	220	0.0022676
5.210	247	219	0.0021433
5.220	204	219	0.0026031
5.230	229	218	0.0023114
5.240	210	218	0.0025252
5.250	202	217	0.0026298
5.260	213	217	0.0024752
5.270	236	216	0.0022461
5.280	193	216	0.0027412
5.290	200	215	0.0026570
5.300	215	215	0.0024507
5.310	232	215	0.0022893
5.320	196	214	0.0026846
5.330	227	214	0.0023338
5.340	227	214	0.0023338

5.350	257	213	0.0020661
5.360	210	213	0.0025252
5.370	200	213	0.0026570
5.380	227	212	0.0023338
5.390	238	212	0.0022250
5.400	200	212	0.0026570
5.410	215	212	0.0024507
5.420	170	211	0.0031210
5.430	230	211	0.0022893
5.440	217	211	0.0024507
5.450	219	211	0.0024267
5.460	174	210	0.0030524
5.470	206	210	0.0025767
5.480	194	210	0.0027127
5.490	194	210	0.0027127
5.500	223	209	0.0023795
5.510	217	209	0.0024507
5.520	213	209	0.0024752
5.530	211	209	0.0025000
5.540	198	208	0.0026846
5.550	204	208	0.0026031
5.560	209	208	0.0025252
5.570	225	208	0.0023565
5.580	204	208	0.0026031
5.590	221	207	0.0024029
5.600	213	207	0.0024752
5.610	194	207	0.0027127
5.620	192	207	0.0027412
5.630	238	207	0.0022250
5.640	187	206	0.0028293
5.650	192	206	0.0027412
5.660	194	206	0.0027127
5.670	215	205	0.0024752
5.680	215	205	0.0024752
5.690	234	205	0.0022676
5.700	243	205	0.0021836
5.710	191	205	0.0027701
5.720	196	205	0.0027127
5.730	226	205	0.0023338
5.740	179	204	0.0029537
5.750	185	204	0.0028597
5.760	217	204	0.0024507
5.770	200	204	0.0026570
5.780	228	204	0.0023114
5.790	196	204	0.0027127
5.800	204	204	0.0026031
5.810	213	204	0.0024752
5.820	204	204	0.0026031
5.830	226	203	0.0023338
5.840	219	203	0.0024267
5.850	193	203	0.0027412
5.860	194	203	0.0027412
5.870	191	203	0.0027701
5.880	187	203	0.0028293

5.890	191	203	0.0027701
5.900	196	203	0.0027127
5.910	204	203	0.0026031
5.920	198	203	0.0026846
5.930	227	203	0.0023338
5.940	219	202	0.0024267
5.950	223	202	0.0023795
5.960	192	202	0.0027412
5.970	164	202	0.0032283
5.980	179	202	0.0029537
5.990	208	202	0.0025508
6.000	228	202	0.0023114
6.010	215	202	0.0024752
6.020	221	202	0.0024029
6.030	191	202	0.0027701
6.040	215	202	0.0024752
6.050	238	202	0.0022250
6.060	223	202	0.0023795
6.070	215	202	0.0024752
6.080	177	202	0.0029861
6.090	221	201	0.0024029
6.100	221	201	0.0024029
6.110	179	201	0.0029537
6.120	209	201	0.0025252
6.130	177	201	0.0029861
6.140	211	201	0.0025000
6.150	185	201	0.0028597
6.160	175	201	0.0030190
6.170	202	201	0.0026298
6.180	217	201	0.0024507
6.190	211	201	0.0025000
6.200	192	201	0.0027701
6.210	221	201	0.0024029
6.220	234	201	0.0022676
6.230	198	201	0.0026846
6.240	204	201	0.0026031
6.250	223	201	0.0023795
6.260	207	201	0.0025508
6.270	196	201	0.0027127
6.280	221	201	0.0024029
6.290	219	201	0.0024267
6.300	175	201	0.0030190
6.310	204	201	0.0026031
6.320	215	201	0.0024752
6.330	198	201	0.0026846
6.340	245	201	0.0021633
6.350	181	201	0.0029218
6.360	215	201	0.0024752
6.370	204	201	0.0026031
6.380	200	201	0.0026570
6.390	222	201	0.0023795
6.400	168	201	0.0031562
6.410	196	201	0.0027127
6.420	207	201	0.0025508

6.430	189	201	0.0027995
6.440	192	201	0.0027701
6.450	204	201	0.0026031
6.460	156	201	0.0033802
6.470	220	201	0.0024029
6.480	219	201	0.0024267
6.490	222	201	0.0023795
6.500	221	201	0.0024029
6.510	204	201	0.0026031
6.520	211	201	0.0025252
6.530	209	201	0.0025252
6.540	188	201	0.0028293
6.550	211	201	0.0025252
6.560	192	201	0.0027701
6.570	177	201	0.0029861
6.580	232	201	0.0022893
6.590	215	201	0.0024752
6.600	194	201	0.0027412
6.610	196	201	0.0027127
6.620	207	201	0.0025508
6.630	202	201	0.0026298
6.640	196	201	0.0027127
6.650	183	201	0.0028905
6.660	221	201	0.0024029
6.670	188	201	0.0028293
6.680	209	201	0.0025252
6.690	232	201	0.0022893
6.700	204	201	0.0026031
6.710	190	201	0.0027995
6.720	217	201	0.0024507
6.730	211	202	0.0025252
6.740	198	202	0.0026846
6.750	188	202	0.0028293
6.760	192	202	0.0027701
6.770	239	202	0.0022250
6.780	217	202	0.0024507
6.790	190	202	0.0027995
6.800	188	202	0.0028293
6.810	207	202	0.0025508
6.820	211	202	0.0025252
6.830	173	202	0.0030524
6.840	211	202	0.0025252
6.850	181	202	0.0029218
6.860	211	203	0.0025252
6.870	239	203	0.0022250
6.880	204	203	0.0026031
6.890	175	203	0.0030190
6.900	215	203	0.0024752
6.910	190	203	0.0027995
6.920	207	203	0.0025508
6.930	202	203	0.0026298
6.940	209	203	0.0025508
6.950	234	203	0.0022676
6.960	194	204	0.0027412

6.970	198	204	0.0026846
6.980	198	204	0.0026846
6.990	209	204	0.0025508
7.000	183	204	0.0029218
7.010	198	204	0.0026846
7.020	192	204	0.0027701
7.030	201	204	0.0026298
7.040	217	204	0.0024507
7.050	186	205	0.0028597
7.060	215	205	0.0024752
7.070	216	205	0.0024507
7.080	179	205	0.0029861
7.090	205	205	0.0025767
7.100	184	205	0.0028905
7.110	218	205	0.0024267
7.120	203	206	0.0026031
7.130	201	206	0.0026298
7.140	207	206	0.0025767
7.150	198	206	0.0026846
7.160	196	206	0.0027127
7.170	217	206	0.0024507
7.180	233	207	0.0022676
7.190	232	207	0.0022893
7.200	203	207	0.0026031
7.210	185	207	0.0028905
7.220	194	207	0.0027412
7.230	220	208	0.0024029
7.240	179	208	0.0029537
7.250	211	208	0.0025252
7.260	232	208	0.0022893
7.270	179	209	0.0029537
7.280	239	209	0.0022250
7.290	200	209	0.0026570
7.300	243	210	0.0021836
7.310	222	210	0.0023795
7.320	226	211	0.0023565
7.330	209	211	0.0025508
7.340	213	212	0.0025000
7.350	217	212	0.0024507
7.360	203	213	0.0026031
7.370	226	214	0.0023565
7.380	205	216	0.0025767
7.390	198	218	0.0026846
7.400	237	220	0.0022461
7.410	211	223	0.0025252
7.420	213	227	0.0025000
7.430	234	231	0.0022676
7.440	234	235	0.0022676
7.450	253	241	0.0021042
7.460	232	247	0.0022893
7.470	281	253	0.0018904
7.480	249	261	0.0021236
7.490	298	270	0.0017803
7.500	292	280	0.0018108

7.510	285	291	0.0018579
7.520	307	305	0.0017217
7.530	334	321	0.0015873
7.540	351	341	0.0015140
7.550	345	365	0.0015379
7.560	392	392	0.0013516
7.570	407	418	0.0013033
7.580	418	426	0.0012664
7.590	334	397	0.0015873
7.600	321	345	0.0016525
7.610	302	301	0.0017654
7.620	260	273	0.0020475
7.630	228	255	0.0023338
7.640	211	244	0.0025000
7.650	251	237	0.0021236
7.660	219	232	0.0024267
7.670	221	229	0.0024029
7.680	258	226	0.0020475
7.690	209	224	0.0025252
7.700	240	223	0.0022041
7.710	251	222	0.0021236
7.720	209	221	0.0025252
7.730	211	220	0.0025000
7.740	208	220	0.0025508
7.750	213	219	0.0024752
7.760	232	219	0.0022893
7.770	191	219	0.0027701
7.780	183	218	0.0028905
7.790	226	218	0.0023338
7.800	185	218	0.0028597
7.810	204	218	0.0026031
7.820	247	218	0.0021433
7.830	211	218	0.0025000
7.840	228	218	0.0023114
7.850	249	218	0.0021236
7.860	240	218	0.0022041
7.870	196	218	0.0026846
7.880	257	219	0.0020661
7.890	198	219	0.0026570
7.900	223	219	0.0023795
7.910	268	219	0.0019753
7.920	253	219	0.0020850
7.930	236	219	0.0022461
7.940	217	219	0.0024267
7.950	196	220	0.0026846
7.960	268	220	0.0019753
7.970	244	220	0.0021633
7.980	240	220	0.0022041
7.990	204	220	0.0026031
8.000	250	221	0.0021236
8.010	225	221	0.0023565
8.020	263	221	0.0020109
8.030	231	221	0.0022893
8.040	214	221	0.0024752

8.050	199	222	0.0026570
8.060	225	222	0.0023565
8.070	240	222	0.0022041
8.080	244	222	0.0021633
8.090	233	223	0.0022676
8.100	170	223	0.0031210
8.110	242	223	0.0021836
8.120	229	224	0.0023114
8.130	212	224	0.0025000
8.140	248	224	0.0021236
8.150	221	225	0.0023795
8.160	214	225	0.0024752
8.170	218	225	0.0024267
8.180	284	226	0.0018579
8.190	199	226	0.0026570
8.200	276	226	0.0019069
8.210	195	227	0.0027127
8.220	235	227	0.0022461
8.230	222	228	0.0023795
8.240	267	229	0.0019753
8.250	240	229	0.0022041
8.260	222	230	0.0023795
8.270	231	231	0.0022893
8.280	203	232	0.0026031
8.290	233	233	0.0022676
8.300	214	235	0.0024752
8.310	206	237	0.0025508
8.320	241	239	0.0021836
8.330	231	243	0.0022893
8.340	250	246	0.0021042
8.350	231	250	0.0022893
8.360	203	255	0.0026031
8.370	246	261	0.0021433
8.380	235	267	0.0022461
8.390	220	274	0.0024029
8.400	250	282	0.0021042
8.410	269	291	0.0019579
8.420	290	302	0.0018108
8.430	269	315	0.0019579
8.440	298	330	0.0017654
8.450	264	346	0.0019930
8.460	319	362	0.0016525
8.470	290	372	0.0018108
8.480	309	366	0.0017075
8.490	241	344	0.0021836
8.500	325	315	0.0016259
8.510	285	292	0.0018420
8.520	310	275	0.0017075
8.530	251	265	0.0021042
8.540	256	257	0.0020475
8.550	256	252	0.0020475
8.560	249	249	0.0021236
8.570	219	246	0.0024029
8.580	213	244	0.0024752

8.590	266	243	0.0019753
8.600	264	242	0.0019930
8.610	228	241	0.0023114
8.620	219	240	0.0024029
8.630	245	240	0.0021433
8.640	253	240	0.0020850
8.650	251	239	0.0021042
8.660	249	239	0.0021042
8.670	247	239	0.0021236
8.680	226	239	0.0023338
8.690	226	239	0.0023338
8.700	249	239	0.0021042
8.710	276	239	0.0019069
8.720	240	239	0.0022041
8.730	236	240	0.0022250
8.740	204	240	0.0025767
8.750	249	240	0.0021042
8.760	232	240	0.0022676
8.770	215	240	0.0024507
8.780	238	240	0.0022041
8.790	245	241	0.0021433
8.800	225	241	0.0023338
8.810	255	241	0.0020661
8.820	249	241	0.0021042
8.830	253	242	0.0020661
8.840	274	242	0.0019237
8.850	255	242	0.0020661
8.860	253	243	0.0020661
8.870	305	243	0.0017217
8.880	234	243	0.0022461
8.890	244	243	0.0021433
8.900	272	244	0.0019237
8.910	276	244	0.0019069
8.920	234	244	0.0022461
8.930	257	245	0.0020475
8.940	231	245	0.0022676
8.950	242	245	0.0021633
8.960	265	245	0.0019753
8.970	259	246	0.0020291
8.980	267	246	0.0019579
8.990	259	246	0.0020291
9.000	267	247	0.0019579
9.010	252	247	0.0020850
9.020	269	247	0.0019579
9.030	244	248	0.0021433
9.040	263	248	0.0019930
9.050	279	248	0.0018740
9.060	262	249	0.0020109
9.070	235	249	0.0022250
9.080	212	249	0.0024752
9.090	229	250	0.0022893
9.100	263	250	0.0019930
9.110	275	250	0.0019069
9.120	277	251	0.0018904

9.130	311	251	0.0016797
9.140	267	251	0.0019579
9.150	271	252	0.0019237
9.160	245	252	0.0021433
9.170	269	252	0.0019407
9.180	287	253	0.0018263
9.190	266	253	0.0019753
9.200	308	253	0.0017075
9.210	229	254	0.0022893
9.220	293	254	0.0017955
9.230	226	254	0.0023114
9.240	279	255	0.0018740
9.250	258	255	0.0020291
9.260	287	255	0.0018263
9.270	237	256	0.0022041
9.280	277	256	0.0018904
9.290	287	257	0.0018263
9.300	266	257	0.0019579
9.310	255	257	0.0020475
9.320	281	258	0.0018579
9.330	253	258	0.0020661
9.340	262	259	0.0019930
9.350	213	259	0.0024507
9.360	278	260	0.0018740
9.370	237	260	0.0022041
9.380	262	260	0.0019930
9.390	282	261	0.0018579
9.400	228	261	0.0022893
9.410	307	262	0.0017075
9.420	284	263	0.0018420
9.430	276	263	0.0018904
9.440	280	264	0.0018579
9.450	299	265	0.0017507
9.460	261	265	0.0019930
9.470	274	266	0.0019069
9.480	286	267	0.0018263
9.490	265	267	0.0019753
9.500	263	268	0.0019930
9.510	278	269	0.0018740
9.520	297	270	0.0017507
9.530	309	271	0.0016935
9.540	280	272	0.0018579
9.550	288	273	0.0018108
9.560	259	274	0.0020109
9.570	286	276	0.0018263
9.580	307	278	0.0016935
9.590	297	280	0.0017507
9.600	297	282	0.0017507
9.610	299	285	0.0017361
9.620	267	288	0.0019579
9.630	303	292	0.0017217
9.640	340	298	0.0015379
9.650	315	305	0.0016525
9.660	346	314	0.0015023

9.670	380	325	0.0013717
9.680	330	338	0.0015747
9.690	350	353	0.0014907
9.700	390	371	0.0013320
9.710	380	392	0.0013717
9.720	396	416	0.0013127
9.730	413	443	0.0012575
9.740	471	476	0.0011037
9.750	519	513	0.0010014
9.760	492	556	0.0010610
9.770	569	601	0.0009127
9.780	556	639	0.0009352
9.790	565	650	0.0009183
9.800	527	617	0.0009889
9.810	469	548	0.0011111
9.820	537	477	0.0009705
9.830	427	422	0.0012140
9.840	362	384	0.0014348
9.850	371	358	0.0014027
9.860	379	340	0.0013717
9.870	331	327	0.0015747
9.880	267	318	0.0019407
9.890	343	312	0.0015140
9.900	308	307	0.0016935
9.910	302	303	0.0017217
9.920	308	300	0.0016935
9.930	269	297	0.0019237
9.940	316	296	0.0016525
9.950	323	294	0.0016129
9.960	333	293	0.0015623
9.970	302	293	0.0017217
9.980	289	292	0.0017955
9.990	293	292	0.0017803
10.000	323	292	0.0016129
10.010	292	292	0.0017803
10.020	285	292	0.0018263
10.030	302	292	0.0017217
10.040	323	292	0.0016129
10.050	300	293	0.0017361
10.060	356	294	0.0014568
10.070	279	295	0.0018579
10.080	321	296	0.0016129
10.090	294	298	0.0017654
10.100	298	300	0.0017507
10.110	352	302	0.0014793
10.120	310	306	0.0016797
10.130	325	310	0.0016000
10.140	302	316	0.0017217
10.150	339	324	0.0015379
10.160	337	333	0.0015379
10.170	391	345	0.0013320
10.180	337	358	0.0015379
10.190	366	374	0.0014240
10.200	391	393	0.0013320

10.210	431	415	0.0012056
10.220	435	440	0.0011973
10.230	502	471	0.0010339
10.240	464	506	0.0011186
10.250	529	546	0.0009827
10.260	527	583	0.0009889
10.270	514	601	0.0010142
10.280	497	576	0.0010473
10.290	495	515	0.0010541
10.300	502	451	0.0010339
10.310	410	404	0.0012664
10.320	381	372	0.0013616
10.330	402	351	0.0012939
10.340	412	337	0.0012575
10.350	335	328	0.0015500
10.360	312	321	0.0016660
10.370	327	316	0.0015873
10.380	352	312	0.0014793
10.390	389	309	0.0013320
10.400	348	307	0.0014907
10.410	287	305	0.0018108
10.420	306	304	0.0016935
10.430	323	302	0.0016129
10.440	298	302	0.0017361
10.450	293	301	0.0017803
10.460	321	300	0.0016129
10.470	281	300	0.0018420
10.480	329	300	0.0015747
10.490	296	299	0.0017507
10.500	368	299	0.0014133
10.510	352	299	0.0014793
10.520	325	299	0.0016000
10.530	327	299	0.0015873
10.540	331	299	0.0015747
10.550	339	299	0.0015379
10.560	300	299	0.0017361
10.570	327	299	0.0015873
10.580	341	299	0.0015259
10.590	331	299	0.0015747
10.600	346	299	0.0015023
10.610	306	299	0.0016935
10.620	289	299	0.0017955
10.630	289	299	0.0017955
10.640	292	300	0.0017803
10.650	316	300	0.0016525
10.660	335	300	0.0015500
10.670	346	300	0.0015023
10.680	339	300	0.0015379
10.690	321	300	0.0016129
10.700	327	300	0.0015873
10.710	267	301	0.0019407
10.720	275	301	0.0018904
10.730	291	301	0.0017955
10.740	368	301	0.0014133

10.750	315	301	0.0016525
10.760	290	301	0.0017955
10.770	338	301	0.0015379
10.780	327	302	0.0015873
10.790	311	302	0.0016660
10.800	327	302	0.0015873
10.810	265	302	0.0019579
10.820	294	303	0.0017654
10.830	306	303	0.0017075
10.840	350	303	0.0014907
10.850	273	303	0.0019069
10.860	325	304	0.0016000
10.870	279	304	0.0018579
10.880	302	305	0.0017217
10.890	333	305	0.0015623
10.900	315	306	0.0016525
10.910	309	307	0.0016797
10.920	292	308	0.0017803
10.930	252	309	0.0020661
10.940	352	309	0.0014793
10.950	290	309	0.0017955
10.960	315	310	0.0016525
10.970	304	310	0.0017075
10.980	332	310	0.0015623
10.990	323	311	0.0016129
11.000	304	311	0.0017075
11.010	275	312	0.0018904
11.020	279	312	0.0018740
11.030	313	312	0.0016660
11.040	332	313	0.0015623
11.050	352	313	0.0014793
11.060	292	314	0.0017803
11.070	277	314	0.0018904
11.080	344	315	0.0015140
11.090	307	315	0.0016935
11.100	302	316	0.0017217
11.110	309	316	0.0016797
11.120	277	317	0.0018904
11.130	311	318	0.0016797
11.140	311	318	0.0016797
11.150	277	319	0.0018904
11.160	336	320	0.0015500
11.170	348	321	0.0015023
11.180	323	322	0.0016129
11.190	305	323	0.0017075
11.200	338	324	0.0015379
11.210	298	326	0.0017507
11.220	319	327	0.0016391
11.230	380	329	0.0013717
11.240	326	331	0.0016000
11.250	323	334	0.0016129
11.260	301	337	0.0017217
11.270	334	341	0.0015623
11.280	311	347	0.0016797

11.290	328	353	0.0015873
11.300	378	360	0.0013820
11.310	374	368	0.0013923
11.320	395	378	0.0013223
11.330	380	389	0.0013717
11.340	415	403	0.0012575
11.350	386	418	0.0013516
11.360	415	436	0.0012575
11.370	474	453	0.0010964
11.380	418	465	0.0012486
11.390	411	464	0.0012664
11.400	407	451	0.0012847
11.410	384	435	0.0013616
11.420	395	424	0.0013223
11.430	389	422	0.0013418
11.440	343	426	0.0015140
11.450	372	437	0.0014027
11.460	428	455	0.0012226
11.470	445	483	0.0011728
11.480	487	526	0.0010680
11.490	504	586	0.0010339
11.500	614	665	0.0008500
11.510	602	761	0.0008651
11.520	694	879	0.0007506
11.530	880	1019	0.0005920
11.540	1011	1189	0.0005165
11.550	1281	1396	0.0004081
11.560	1581	1651	0.0003306
11.570	1971	1963	0.0002644
11.580	2528	2329	0.0002064
11.590	3272	2674	0.0001594
11.600	3454	2748	0.0001513
11.610	2487	2310	0.0002100
11.620	1574	1669	0.0003318
11.630	1022	1197	0.0005119
11.640	780	911	0.0006712
11.650	667	738	0.0007846
11.660	540	629	0.0009645
11.670	477	556	0.0010964
11.680	450	506	0.0011569
11.690	504	470	0.0010339
11.700	400	444	0.0013033
11.710	385	423	0.0013616
11.720	383	407	0.0013616
11.730	390	395	0.0013418
11.740	429	384	0.0012226
11.750	341	376	0.0015379
11.760	350	369	0.0014907
11.770	362	363	0.0014457
11.780	333	358	0.0015747
11.790	383	354	0.0013616
11.800	318	351	0.0016525
11.810	381	348	0.0013717
11.820	348	345	0.0015023

11.830	377	342	0.0013923
11.840	346	340	0.0015140
11.850	358	339	0.0014568
11.860	379	337	0.0013820
11.870	331	336	0.0015873
11.880	348	335	0.0015023
11.890	367	334	0.0014240
11.900	348	333	0.0015023
11.910	323	332	0.0016129
11.920	329	331	0.0015873
11.930	350	331	0.0014907
11.940	335	330	0.0015623
11.950	335	329	0.0015623
11.960	352	329	0.0014907
11.970	314	328	0.0016660
11.980	298	327	0.0017507
11.990	333	327	0.0015747
12.000	350	327	0.0014907
12.010	356	326	0.0014680
12.020	314	326	0.0016660
12.030	342	325	0.0015259
12.040	333	325	0.0015747
12.050	275	325	0.0019069
12.060	310	325	0.0016935
12.070	357	324	0.0014680
12.080	298	324	0.0017507
12.090	290	324	0.0017955
12.100	344	324	0.0015259
12.110	285	323	0.0018420
12.120	359	323	0.0014568
12.130	309	323	0.0016935
12.140	277	323	0.0018904
12.150	319	323	0.0016391
12.160	281	323	0.0018579
12.170	311	323	0.0016797
12.180	290	323	0.0018108
12.190	355	323	0.0014793
12.200	294	323	0.0017803
12.210	338	323	0.0015500
12.220	328	323	0.0016000
12.230	313	323	0.0016797
12.240	368	323	0.0014240
12.250	340	322	0.0015379
12.260	305	322	0.0017217
12.270	306	322	0.0017075
12.280	338	322	0.0015500
12.290	323	322	0.0016259
12.300	290	321	0.0018108
12.310	302	321	0.0017361
12.320	351	321	0.0014907
12.330	351	322	0.0014907
12.340	370	323	0.0014133
12.350	323	323	0.0016259
12.360	277	324	0.0018904

12.370	313	325	0.0016660
12.380	279	326	0.0018740
12.390	336	327	0.0015623
12.400	292	329	0.0017955
12.410	363	330	0.0014457
12.420	365	333	0.0014348
12.430	348	335	0.0015023
12.440	304	338	0.0017217
12.450	331	343	0.0015873
12.460	319	348	0.0016391
12.470	375	356	0.0013923
12.480	342	366	0.0015259
12.490	361	381	0.0014457
12.500	440	402	0.0011891
12.510	371	427	0.0014133
12.520	356	459	0.0014680
12.530	476	498	0.0010964
12.540	515	544	0.0010142
12.550	637	601	0.0008210
12.560	697	670	0.0007506
12.570	827	754	0.0006313
12.580	898	844	0.0005806
12.590	979	913	0.0005334
12.600	879	894	0.0005949
12.610	812	770	0.0006442
12.620	613	628	0.0008500
12.630	532	526	0.0009827
12.640	463	463	0.0011261
12.650	421	424	0.0012398
12.660	395	399	0.0013223
12.670	404	382	0.0012939
12.680	379	371	0.0013820
12.690	345	363	0.0015140
12.700	339	357	0.0015379
12.710	351	353	0.0014907
12.720	351	351	0.0014907
12.730	345	349	0.0015140
12.740	314	349	0.0016660
12.750	318	349	0.0016391
12.760	366	350	0.0014240
12.770	360	351	0.0014457
12.780	357	354	0.0014680
12.790	295	358	0.0017654
12.800	339	362	0.0015379
12.810	385	368	0.0013516
12.820	372	376	0.0014027
12.830	357	386	0.0014680
12.840	408	400	0.0012755
12.850	435	418	0.0011973
12.860	451	442	0.0011569
12.870	456	474	0.0011413
12.880	501	514	0.0010406
12.890	589	563	0.0008858
12.900	660	622	0.0007890

12.910	679	693	0.0007673
12.920	720	775	0.0007226
12.930	854	870	0.0006097
12.940	987	974	0.0005285
12.950	983	1075	0.0005309
12.960	993	1146	0.0005236
12.970	1030	1144	0.0005050
12.980	957	1051	0.0005434
12.990	859	902	0.0006067
13.000	742	757	0.0007036
13.010	686	643	0.0007589
13.020	615	560	0.0008451
13.030	540	502	0.0009645
13.040	465	460	0.0011186
13.050	440	429	0.0011809
13.060	406	406	0.0012847
13.070	388	389	0.0013418
13.080	469	375	0.0011111
13.090	406	364	0.0012847
13.100	383	355	0.0013616
13.110	367	348	0.0014133
13.120	367	342	0.0014133
13.130	383	337	0.0013616
13.140	364	333	0.0014348
13.150	369	329	0.0014027
13.160	344	327	0.0015140
13.170	362	324	0.0014348
13.180	356	323	0.0014568
13.190	362	322	0.0014348
13.200	345	323	0.0015023
13.210	316	321	0.0016391
13.220	285	320	0.0018263
13.230	314	319	0.0016525
13.240	324	317	0.0016000
13.250	297	316	0.0017507
13.260	326	315	0.0016000
13.270	306	314	0.0016935
13.280	297	314	0.0017507
13.290	293	313	0.0017654
13.300	366	312	0.0014133
13.310	308	311	0.0016797
13.320	308	311	0.0016797
13.330	276	310	0.0018740
13.340	297	309	0.0017507
13.350	309	309	0.0016797
13.360	351	308	0.0014793
13.370	291	308	0.0017803
13.380	299	308	0.0017361
13.390	293	307	0.0017654
13.400	255	307	0.0020291
13.410	286	307	0.0018108
13.420	284	307	0.0018263
13.430	303	306	0.0017075
13.440	317	306	0.0016391

13.450	311	306	0.0016660
13.460	307	306	0.0016797
13.470	336	306	0.0015379
13.480	296	306	0.0017507
13.490	284	306	0.0018263
13.500	323	306	0.0016000
13.510	284	306	0.0018263
13.520	288	306	0.0017955
13.530	361	306	0.0014348
13.540	348	306	0.0014907
13.550	325	307	0.0016000
13.560	323	307	0.0016000
13.570	304	308	0.0017075
13.580	317	310	0.0016259
13.590	307	312	0.0016797
13.600	321	313	0.0016129
13.610	331	315	0.0015623
13.620	342	316	0.0015140
13.630	340	317	0.0015140
13.640	348	317	0.0014907
13.650	298	318	0.0017361
13.660	368	319	0.0014027
13.670	323	320	0.0016000
13.680	346	320	0.0014907
13.690	335	321	0.0015379
13.700	335	322	0.0015379
13.710	362	323	0.0014240
13.720	310	325	0.0016660
13.730	376	326	0.0013717
13.740	351	327	0.0014680
13.750	333	329	0.0015500
13.760	360	330	0.0014348
13.770	324	332	0.0016000
13.780	299	334	0.0017217
13.790	320	336	0.0016129
13.800	357	338	0.0014457
13.810	359	340	0.0014348
13.820	361	343	0.0014240
13.830	378	345	0.0013616
13.840	371	348	0.0013923
13.850	342	352	0.0015140
13.860	375	355	0.0013717
13.870	404	359	0.0012755
13.880	379	363	0.0013616
13.890	388	368	0.0013223
13.900	396	373	0.0013033
13.910	412	379	0.0012486
13.920	424	385	0.0012140
13.930	400	392	0.0012847
13.940	410	400	0.0012575
13.950	424	409	0.0012140
13.960	461	419	0.0011186
13.970	539	430	0.0009526
13.980	502	442	0.0010273

13.990	492	457	0.0010473
14.000	504	474	0.0010207
14.010	525	493	0.0009766
14.020	541	515	0.0009526
14.030	624	542	0.0008257
14.040	652	573	0.0007890
14.050	601	612	0.0008550
14.060	667	658	0.0007716
14.070	755	716	0.0006817
14.080	860	789	0.0005978
14.090	967	882	0.0005309
14.100	1068	1004	0.0004809
14.110	1318	1166	0.0003906
14.120	1437	1380	0.0003573
14.130	1689	1658	0.0003046
14.140	2050	2009	0.0002504
14.150	2549	2438	0.0002018
14.160	2918	2953	0.0001764
14.170	3453	3560	0.0001487
14.180	4221	4256	0.0001218
14.190	4960	5004	0.0001037
14.200	5684	5687	0.0000904
14.210	5552	6056	0.0000926
14.220	5306	5824	0.0000969
14.230	4863	5002	0.0001056
14.240	4064	3982	0.0001265
14.250	3139	3108	0.0001639
14.260	2639	2476	0.0001951
14.270	2195	2054	0.0002345
14.280	1833	1791	0.0002806
14.290	1547	1649	0.0003330
14.300	1647	1607	0.0003122
14.310	1614	1651	0.0003189
14.320	1782	1771	0.0002883
14.330	1963	1966	0.0002618
14.340	2228	2237	0.0002310
14.350	2601	2591	0.0001978
14.360	3047	3026	0.0001687
14.370	3691	3505	0.0001394
14.380	3995	3876	0.0001288
14.390	3694	3838	0.0001391
14.400	3242	3247	0.0001586
14.410	2568	2461	0.0002001
14.420	1990	1835	0.0002585
14.430	1411	1420	0.0003642
14.440	1220	1152	0.0004216
14.450	1027	976	0.0005005
14.460	856	856	0.0006007
14.470	819	772	0.0006281
14.480	778	713	0.0006608
14.490	722	670	0.0007111
14.500	671	640	0.0007673
14.510	724	620	0.0007111
14.520	687	607	0.0007506

14.530	654	602	0.0007846
14.540	599	603	0.0008600
14.550	683	611	0.0007547
14.560	665	626	0.0007716
14.570	747	650	0.0006889
14.580	772	684	0.0006643
14.590	792	731	0.0006508
14.600	808	796	0.0006377
14.610	895	883	0.0005751
14.620	1123	1002	0.0004585
14.630	1213	1158	0.0004234
14.640	1395	1358	0.0003684
14.650	1647	1605	0.0003122
14.660	1897	1903	0.0002714
14.670	2223	2252	0.0002317
14.680	2494	2648	0.0002064
14.690	3078	3065	0.0001669
14.700	3187	3438	0.0001615
14.710	3520	3640	0.0001462
14.720	3355	3534	0.0001532
14.730	2971	3111	0.0001731
14.740	2564	2544	0.0002006
14.750	2130	2018	0.0002411
14.760	1591	1605	0.0003235
14.770	1437	1302	0.0003573
14.780	1055	1083	0.0004873
14.790	965	923	0.0005334
14.800	761	805	0.0006747
14.810	753	716	0.0006817
14.820	648	647	0.0007935
14.830	558	593	0.0009239
14.840	508	550	0.0010142
14.850	546	515	0.0009409
14.860	504	486	0.0010207
14.870	445	463	0.0011569
14.880	387	443	0.0013320
14.890	430	427	0.0011973
14.900	416	413	0.0012398
14.910	399	401	0.0012939
14.920	396	391	0.0012939
14.930	404	382	0.0012755
14.940	385	375	0.0013418
14.950	369	369	0.0013923
14.960	418	364	0.0012311
14.970	387	360	0.0013320
14.980	389	357	0.0013223
14.990	377	354	0.0013616
15.000	342	353	0.0015023
15.010	381	353	0.0013516
15.020	344	354	0.0015023
15.030	402	356	0.0012847
15.040	357	360	0.0014457
15.050	384	366	0.0013418
15.060	381	374	0.0013516

15.070	382	385	0.0013516
15.080	375	400	0.0013717
15.090	449	421	0.0011491
15.100	478	451	0.0010750
15.110	536	494	0.0009585
15.120	583	554	0.0008858
15.130	670	635	0.0007673
15.140	833	740	0.0006188
15.150	893	870	0.0005778
15.160	1072	1031	0.0004809
15.170	1301	1225	0.0003968
15.180	1488	1449	0.0003468
15.190	1776	1676	0.0002902
15.200	1857	1827	0.0002778
15.210	1729	1772	0.0002983
15.220	1460	1491	0.0003533
15.230	1101	1151	0.0004685
15.240	883	882	0.0005834
15.250	779	700	0.0006608
15.260	586	581	0.0008805
15.270	483	502	0.0010680
15.280	429	447	0.0012056
15.290	407	407	0.0012664
15.300	359	378	0.0014348
15.310	374	356	0.0013820
15.320	386	338	0.0013320
15.330	316	325	0.0016259
15.340	318	314	0.0016259
15.350	297	305	0.0017361
15.360	307	297	0.0016797
15.370	275	291	0.0018740
15.380	305	285	0.0016935
15.390	250	281	0.0020661
15.400	270	277	0.0019069
15.410	272	273	0.0019069
15.420	262	270	0.0019753
15.430	272	267	0.0019069
15.440	273	265	0.0018904
15.450	306	262	0.0016797
15.460	260	261	0.0019930
15.470	262	259	0.0019753
15.480	256	257	0.0020109
15.490	250	256	0.0020661
15.500	285	254	0.0018108
15.510	300	253	0.0017217
15.520	283	252	0.0018263
15.530	271	251	0.0019069
15.540	221	250	0.0023338
15.550	246	250	0.0021042
15.560	236	249	0.0021836
15.570	207	248	0.0025000
15.580	240	248	0.0021433
15.590	227	247	0.0022893
15.600	228	247	0.0022676

15.610	254	247	0.0020291
15.620	279	247	0.0018579
15.630	232	247	0.0022250
15.640	252	248	0.0020475
15.650	257	248	0.0020109
15.660	281	249	0.0018420
15.670	228	250	0.0022676
15.680	220	252	0.0023565
15.690	282	254	0.0018263
15.700	226	257	0.0022893
15.710	251	260	0.0020661
15.720	244	266	0.0021236
15.730	257	273	0.0020109
15.740	278	282	0.0018579
15.750	275	295	0.0018904
15.760	305	311	0.0016935
15.770	338	331	0.0015259
15.780	386	355	0.0013418
15.790	404	382	0.0012847
15.800	499	412	0.0010406
15.810	545	441	0.0009526
15.820	479	459	0.0010821
15.830	502	456	0.0010273
15.840	481	427	0.0010750
15.850	516	386	0.0010014
15.860	375	347	0.0013820
15.870	356	317	0.0014568
15.880	284	294	0.0018263
15.890	334	278	0.0015500
15.900	253	266	0.0020475
15.910	245	257	0.0021042
15.920	265	251	0.0019579
15.930	273	246	0.0019069
15.940	261	241	0.0019753
15.950	207	238	0.0025000
15.960	269	236	0.0019237
15.970	269	233	0.0019237
15.980	222	231	0.0023338
15.990	182	230	0.0028597
16.000	248	228	0.0020850
16.010	203	227	0.0025508
16.020	259	226	0.0019930
16.030	191	225	0.0027127
16.040	217	224	0.0023795
16.050	238	223	0.0021633
16.060	236	222	0.0021836
16.070	160	221	0.0032283
16.080	184	220	0.0027995
16.090	230	219	0.0022461
16.100	197	218	0.0026298
16.110	184	218	0.0027995
16.120	184	218	0.0027995
16.130	203	217	0.0025508
16.140	201	217	0.0025767

16.150	252	216	0.0020475
16.160	178	216	0.0028905
16.170	255	216	0.0020291
16.180	207	215	0.0025000
16.190	201	215	0.0025767
16.200	221	215	0.0023338
16.210	199	214	0.0026031
16.220	176	214	0.0029218
16.230	209	214	0.0024752
16.240	209	213	0.0024752
16.250	207	213	0.0025000
16.260	194	213	0.0026570
16.270	232	213	0.0022250
16.280	230	212	0.0022461
16.290	234	212	0.0022041
16.300	236	212	0.0021836
16.310	186	212	0.0027701
16.320	215	211	0.0024029
16.330	186	211	0.0027701
16.340	201	211	0.0025767
16.350	168	211	0.0030524
16.360	195	210	0.0026298
16.370	219	210	0.0023565
16.380	205	210	0.0025252
16.390	167	210	0.0030864
16.400	174	209	0.0029537
16.410	209	209	0.0024752
16.420	211	209	0.0024507
16.430	223	209	0.0023114
16.440	199	209	0.0025767
16.450	163	209	0.0031919
16.460	213	208	0.0024267
16.470	167	208	0.0030864
16.480	192	209	0.0026846
16.490	215	209	0.0024029
16.500	184	209	0.0027995
16.510	207	209	0.0025000
16.520	192	209	0.0026846
16.530	180	209	0.0028597
16.540	219	209	0.0023565
16.550	194	208	0.0026570
16.560	203	208	0.0025508
16.570	174	208	0.0029537
16.580	213	208	0.0024267
16.590	215	208	0.0024029
16.600	194	208	0.0026570
16.610	221	208	0.0023338
16.620	207	207	0.0024752
16.630	192	207	0.0026846
16.640	161	207	0.0031919
16.650	171	207	0.0030190
16.660	182	207	0.0028293
16.670	178	207	0.0028905
16.680	184	207	0.0027995

16.690	202	207	0.0025508
16.700	202	207	0.0025508
16.710	196	206	0.0026298
16.720	180	206	0.0028597
16.730	221	206	0.0023338
16.740	179	206	0.0028905
16.750	221	206	0.0023338
16.760	186	206	0.0027701
16.770	223	206	0.0023114
16.780	163	206	0.0031562
16.790	161	206	0.0031919
16.800	190	206	0.0027127
16.810	196	206	0.0026298
16.820	202	206	0.0025508
16.830	165	206	0.0031210
16.840	171	206	0.0030190
16.850	187	206	0.0027701
16.860	210	206	0.0024507
16.870	214	207	0.0024029
16.880	191	207	0.0027127
16.890	189	207	0.0027412
16.900	177	207	0.0029218
16.910	220	208	0.0023338
16.920	150	209	0.0034199
16.930	194	209	0.0026570
16.940	198	211	0.0026031
16.950	185	212	0.0027701
16.960	204	214	0.0025252
16.970	163	216	0.0031562
16.980	185	219	0.0027701
16.990	185	221	0.0027701
17.000	214	222	0.0024029
17.010	216	223	0.0023795
17.020	198	221	0.0026031
17.030	189	219	0.0027127
17.040	245	216	0.0021042
17.050	206	214	0.0025000
17.060	204	212	0.0025252
17.070	216	211	0.0023795
17.080	204	210	0.0025252
17.090	199	209	0.0025767
17.100	158	209	0.0032653
17.110	169	209	0.0030190
17.120	183	209	0.0027995
17.130	187	209	0.0027412
17.140	230	209	0.0022250
17.150	191	209	0.0026846
17.160	191	210	0.0026846
17.170	207	210	0.0024752
17.180	207	211	0.0024752
17.190	207	211	0.0024752
17.200	216	212	0.0023795
17.210	187	213	0.0027412
17.220	220	214	0.0023338

17.230	212	215	0.0024267
17.240	197	217	0.0026031
17.250	181	218	0.0028293
17.260	228	220	0.0022461
17.270	199	222	0.0025767
17.280	185	225	0.0027701
17.290	209	228	0.0024507
17.300	258	232	0.0019930
17.310	228	237	0.0022461
17.320	213	243	0.0024029
17.330	250	251	0.0020475
17.340	246	261	0.0020850
17.350	263	275	0.0019407
17.360	318	295	0.0016129
17.370	349	320	0.0014680
17.380	392	353	0.0013033
17.390	393	394	0.0013033
17.400	510	443	0.0010078
17.410	522	498	0.0009827
17.420	582	553	0.0008805
17.430	549	591	0.0009352
17.440	688	589	0.0007425
17.450	596	538	0.0008600
17.460	504	468	0.0010142
17.470	446	407	0.0011491
17.480	405	363	0.0012664
17.490	379	334	0.0013516
17.500	340	316	0.0015023
17.510	383	306	0.0013320
17.520	301	300	0.0016935
17.530	305	299	0.0016797
17.540	284	301	0.0017955
17.550	293	306	0.0017361
17.560	282	314	0.0018108
17.570	345	325	0.0014793
17.580	333	341	0.0015379
17.590	372	362	0.0013717
17.600	429	390	0.0011891
17.610	468	426	0.0010892
17.620	446	475	0.0011413
17.630	515	538	0.0009951
17.640	650	621	0.0007846
17.650	737	726	0.0006925
17.660	939	853	0.0005434
17.670	1056	1001	0.0004830
17.680	1199	1161	0.0004251
17.690	1463	1316	0.0003494
17.700	1404	1427	0.0003642
17.710	1463	1447	0.0003494
17.720	1381	1352	0.0003698
17.730	1345	1173	0.0003800
17.740	1110	975	0.0004605
17.750	914	803	0.0005589
17.760	745	668	0.0006853

17.770	592	568	0.0008600
17.780	529	493	0.0009645
17.790	416	438	0.0012226
17.800	412	396	0.0012398
17.810	416	364	0.0012311
17.820	337	339	0.0015140
17.830	324	320	0.0015747
17.840	281	305	0.0018108
17.850	282	293	0.0018108
17.860	263	283	0.0019407
17.870	243	276	0.0021042
17.880	251	272	0.0020291
17.890	257	269	0.0019753
17.900	285	268	0.0017955
17.910	236	269	0.0021633
17.920	271	273	0.0018740
17.930	277	280	0.0018420
17.940	263	289	0.0019407
17.950	255	300	0.0019930
17.960	271	312	0.0018740
17.970	289	323	0.0017654
17.980	305	326	0.0016660
17.990	283	320	0.0017955
18.000	299	304	0.0017075
18.010	238	285	0.0021433
18.020	271	267	0.0018740
18.030	256	253	0.0019930
18.040	263	243	0.0019237
18.050	246	237	0.0020661
18.060	205	232	0.0024752
18.070	238	229	0.0021433
18.080	236	229	0.0021633
18.090	220	229	0.0023114
18.100	224	231	0.0022676
18.110	220	233	0.0023114
18.120	195	235	0.0026031
18.130	274	232	0.0018579
18.140	203	226	0.0025000
18.150	221	218	0.0023114
18.160	240	213	0.0021042
18.170	199	209	0.0025508
18.180	193	206	0.0026298
18.190	217	204	0.0023338
18.200	213	203	0.0023795
18.210	193	201	0.0026298
18.220	203	200	0.0025000
18.230	197	200	0.0025767
18.240	181	199	0.0027995
18.250	215	198	0.0023565
18.260	185	198	0.0027412
18.270	177	198	0.0028597
18.280	146	197	0.0034602
18.290	185	197	0.0027412
18.300	252	197	0.0020109

18.310	201	197	0.0025252
18.320	179	197	0.0028293
18.330	207	197	0.0024507
18.340	199	197	0.0025508
18.350	185	197	0.0027412
18.360	201	197	0.0025252
18.370	217	197	0.0023338
18.380	166	197	0.0030524
18.390	176	198	0.0028905
18.400	213	198	0.0023795
18.410	205	198	0.0024752
18.420	181	199	0.0027995
18.430	231	200	0.0022041
18.440	166	201	0.0030524
18.450	225	202	0.0022461
18.460	187	203	0.0027127
18.470	178	205	0.0028597
18.480	229	207	0.0022250
18.490	201	210	0.0025252
18.500	223	213	0.0022676
18.510	243	216	0.0020850
18.520	217	221	0.0023338
18.530	237	227	0.0021433
18.540	247	235	0.0020475
18.550	264	245	0.0019237
18.560	257	258	0.0019753
18.570	264	275	0.0019237
18.580	286	298	0.0017654
18.590	326	327	0.0015623
18.600	334	362	0.0015140
18.610	405	404	0.0012486
18.620	452	450	0.0011186
18.630	490	494	0.0010339
18.640	496	524	0.0010207
18.650	573	528	0.0008858
18.660	529	498	0.0009585
18.670	486	447	0.0010406
18.680	393	394	0.0012847
18.690	417	350	0.0012140
18.700	371	318	0.0013616
18.710	300	296	0.0016935
18.720	322	282	0.0015747
18.730	310	274	0.0016391
18.740	310	271	0.0016391
18.750	330	271	0.0015379
18.760	314	275	0.0016129
18.770	288	277	0.0017507
18.780	346	276	0.0014680
18.790	312	268	0.0016259
18.800	306	254	0.0016525
18.810	255	239	0.0019930
18.820	235	228	0.0021633
18.830	207	219	0.0024507
18.840	233	212	0.0021633

18.850	209	207	0.0024267
18.860	205	204	0.0024752
18.870	196	201	0.0026031
18.880	241	198	0.0021042
18.890	223	197	0.0022676
18.900	198	195	0.0025508
18.910	182	194	0.0027701
18.920	215	192	0.0023565
18.930	219	191	0.0023114
18.940	211	190	0.0024029
18.950	190	189	0.0026570
18.960	168	188	0.0030190
18.970	213	188	0.0023795
18.980	203	187	0.0025000
18.990	225	187	0.0022461
19.000	210	187	0.0024267
19.010	188	186	0.0026846
19.020	174	186	0.0029218
19.030	166	186	0.0030524
19.040	209	185	0.0024267
19.050	231	185	0.0021836
19.060	188	185	0.0026846
19.070	170	185	0.0029861
19.080	205	185	0.0024752
19.090	217	185	0.0023338
19.100	162	185	0.0031210
19.110	217	185	0.0023338
19.120	192	185	0.0026570
19.130	164	185	0.0030864
19.140	243	185	0.0020850
19.150	203	185	0.0025000
19.160	162	185	0.0031210
19.170	215	186	0.0023565
19.180	190	186	0.0026570
19.190	172	186	0.0029537
19.200	188	187	0.0027127
19.210	188	187	0.0027127
19.220	176	188	0.0028905
19.230	194	189	0.0026298
19.240	217	190	0.0023338
19.250	213	191	0.0023795
19.260	194	192	0.0026031
19.270	231	194	0.0021836
19.280	209	196	0.0024267
19.290	162	199	0.0031210
19.300	172	202	0.0029537
19.310	193	206	0.0026298
19.320	221	212	0.0022893
19.330	221	220	0.0022893
19.340	294	232	0.0017217
19.350	233	248	0.0021633
19.360	292	272	0.0017361
19.370	326	306	0.0015500
19.380	357	350	0.0014133

19.390	456	406	0.0011111
19.400	545	474	0.0009295
19.410	646	545	0.0007846
19.420	616	594	0.0008210
19.430	664	574	0.0007631
19.440	494	486	0.0010273
19.450	367	392	0.0013820
19.460	381	325	0.0013320
19.470	267	282	0.0019069
19.480	271	255	0.0018740
19.490	275	238	0.0018420
19.500	225	226	0.0022461
19.510	253	218	0.0020109
19.520	263	213	0.0019237
19.530	251	210	0.0020109
19.540	223	207	0.0022676
19.550	223	206	0.0022676
19.560	217	205	0.0023338
19.570	213	205	0.0023795
19.580	205	206	0.0024752
19.590	221	208	0.0022893
19.600	223	211	0.0022676
19.610	259	215	0.0019579
19.620	241	221	0.0021042
19.630	239	228	0.0021236
19.640	233	235	0.0021633
19.650	237	241	0.0021433
19.660	239	245	0.0021236
19.670	249	244	0.0020291
19.680	229	238	0.0022041
19.690	255	230	0.0019930
19.700	217	221	0.0023338
19.710	267	213	0.0019069
19.720	215	207	0.0023565
19.730	221	203	0.0022893
19.740	211	199	0.0024029
19.750	217	197	0.0023338
19.760	195	195	0.0026031
19.770	209	194	0.0024267
19.780	197	193	0.0025767
19.790	223	192	0.0022676
19.800	184	192	0.0027701
19.810	215	191	0.0023565
19.820	203	191	0.0025000
19.830	168	191	0.0030190
19.840	160	191	0.0031562
19.850	178	192	0.0028597
19.860	184	192	0.0027701
19.870	201	193	0.0025252
19.880	193	194	0.0026298
19.890	191	195	0.0026570
19.900	156	197	0.0032653
19.910	278	199	0.0018263
19.920	217	202	0.0023338

19.930	201	206	0.0025252
19.940	233	211	0.0021836
19.950	227	218	0.0022250
19.960	225	228	0.0022461
19.970	249	242	0.0020475
19.980	272	262	0.0018579
19.990	274	291	0.0018579
20.000	377	329	0.0013418
20.010	387	377	0.0013127
20.020	452	435	0.0011261
20.030	521	494	0.0009705
20.040	491	529	0.0010339
20.050	529	507	0.0009585
20.060	442	434	0.0011491
20.070	383	358	0.0013223
20.080	333	304	0.0015259
20.090	270	270	0.0018740
20.100	225	248	0.0022461
20.110	245	234	0.0020661
20.120	215	224	0.0023565
20.130	181	217	0.0027995
20.140	225	212	0.0022461
20.150	247	209	0.0020661
20.160	185	206	0.0027412
20.170	187	204	0.0027127
20.180	233	203	0.0021836
20.190	247	202	0.0020475
20.200	191	201	0.0026570
20.210	201	200	0.0025252
20.220	179	200	0.0028293
20.230	229	200	0.0022250
20.240	209	200	0.0024267
20.250	205	201	0.0024752
20.260	197	201	0.0025767
20.270	219	202	0.0023114
20.280	227	203	0.0022461
20.290	209	204	0.0024267
20.300	199	205	0.0025508
20.310	213	206	0.0023795
20.320	205	208	0.0024752
20.330	244	209	0.0020661
20.340	223	211	0.0022676
20.350	240	213	0.0021042
20.360	242	216	0.0020850
20.370	207	218	0.0024507
20.380	256	222	0.0019753
20.390	221	225	0.0022893
20.400	217	229	0.0023338
20.410	248	234	0.0020475
20.420	238	239	0.0021236
20.430	252	245	0.0020109
20.440	262	252	0.0019407
20.450	284	261	0.0017955
20.460	274	271	0.0018579

20.470	254	282	0.0019930
20.480	268	296	0.0018904
20.490	288	313	0.0017654
20.500	317	333	0.0016000
20.510	315	358	0.0016129
20.520	394	388	0.0012847
20.530	414	425	0.0012311
20.540	445	473	0.0011413
20.550	483	537	0.0010541
20.560	662	623	0.0007673
20.570	753	740	0.0006747
20.580	879	895	0.0005778
20.590	1091	1097	0.0004665
20.600	1426	1345	0.0003560
20.610	1634	1631	0.0003111
20.620	1980	1925	0.0002568
20.630	2210	2159	0.0002303
20.640	2149	2231	0.0002367
20.650	2204	2077	0.0002303
20.660	1772	1759	0.0002863
20.670	1450	1408	0.0003507
20.680	1132	1113	0.0004489
20.690	905	891	0.0005615
20.700	685	731	0.0007425
20.710	618	615	0.0008210
20.720	563	530	0.0009018
20.730	494	467	0.0010273
20.740	445	419	0.0011413
20.750	362	382	0.0014027
20.760	332	353	0.0015259
20.770	323	329	0.0015747
20.780	319	310	0.0016000
20.790	325	295	0.0015623
20.800	330	282	0.0015379
20.810	297	272	0.0017075
20.820	271	263	0.0018740
20.830	267	255	0.0019069
20.840	246	249	0.0020661
20.850	262	243	0.0019407
20.860	236	239	0.0021633
20.870	212	235	0.0024029
20.880	210	233	0.0024267
20.890	246	231	0.0020661
20.900	222	229	0.0022893
20.910	246	228	0.0020661
20.920	271	227	0.0018740
20.930	265	225	0.0019237
20.940	246	224	0.0020661
20.950	240	224	0.0021236
20.960	265	223	0.0019237
20.970	206	224	0.0024752
20.980	222	224	0.0022893
20.990	260	225	0.0019579
21.000	250	226	0.0020291

21.010	279	227	0.0018263
21.020	218	229	0.0023338
21.030	252	231	0.0020291
21.040	226	234	0.0022461
21.050	242	238	0.0021042
21.060	289	243	0.0017654
21.070	236	248	0.0021633
21.080	275	255	0.0018579
21.090	257	264	0.0019753
21.100	283	275	0.0017955
21.110	379	289	0.0013418
21.120	318	307	0.0016000
21.130	395	330	0.0012847
21.140	364	361	0.0014027
21.150	432	403	0.0011728
21.160	458	459	0.0011111
21.170	625	533	0.0008163
21.180	725	626	0.0006999
21.190	779	738	0.0006541
21.200	1018	860	0.0005005
21.210	1014	973	0.0005027
21.220	1170	1041	0.0004358
21.230	1101	1027	0.0004625
21.240	989	928	0.0005142
21.250	908	788	0.0005615
21.260	682	655	0.0007465
21.270	603	550	0.0008451
21.280	462	473	0.0011037
21.290	446	418	0.0011413
21.300	375	378	0.0013516
21.310	360	350	0.0014133
21.320	287	330	0.0017803
21.330	316	317	0.0016129
21.340	277	308	0.0018420
21.350	342	304	0.0014907
21.360	242	304	0.0021042
21.370	289	308	0.0017654
21.380	295	316	0.0017217
21.390	356	330	0.0014348
21.400	354	348	0.0014348
21.410	383	372	0.0013320
21.420	432	399	0.0011728
21.430	413	427	0.0012311
21.440	476	448	0.0010680
21.450	529	457	0.0009645
21.460	480	447	0.0010610
21.470	440	421	0.0011569
21.480	413	388	0.0012311
21.490	393	356	0.0012939
21.500	383	330	0.0013223
21.510	305	310	0.0016660
21.520	313	295	0.0016259
21.530	267	285	0.0019069
21.540	275	278	0.0018420

21.550	266	273	0.0019069
21.560	226	270	0.0022461
21.570	256	269	0.0019930
21.580	307	270	0.0016525
21.590	285	272	0.0017803
21.600	285	276	0.0017803
21.610	258	281	0.0019753
21.620	266	288	0.0019069
21.630	293	297	0.0017361
21.640	315	308	0.0016129
21.650	344	322	0.0014793
21.660	350	339	0.0014457
21.670	337	362	0.0015140
21.680	331	391	0.0015379
21.690	398	429	0.0012755
21.700	453	478	0.0011186
21.710	496	545	0.0010207
21.720	638	639	0.0007980
21.730	693	771	0.0007344
21.740	955	959	0.0005309
21.750	1174	1217	0.0004322
21.760	1619	1554	0.0003133
21.770	1932	1966	0.0002627
21.780	2428	2420	0.0002094
21.790	2871	2805	0.0001768
21.800	2887	2911	0.0001759
21.810	2621	2597	0.0001934
21.820	1989	2042	0.0002552
21.830	1446	1528	0.0003507
21.840	1174	1153	0.0004322
21.850	891	900	0.0005696
21.860	734	729	0.0006925
21.870	654	611	0.0007759
21.880	520	527	0.0009766
21.890	497	466	0.0010207
21.900	451	421	0.0011261
21.910	408	387	0.0012398
21.920	371	360	0.0013717
21.930	349	340	0.0014568
21.940	367	323	0.0013820
21.950	331	310	0.0015259
21.960	319	300	0.0015873
21.970	298	292	0.0017075
21.980	296	286	0.0017075
21.990	284	281	0.0017803
22.000	292	277	0.0017361
22.010	286	275	0.0017654
22.020	300	274	0.0016935
22.030	306	274	0.0016525
22.040	278	275	0.0018263
22.050	288	278	0.0017654
22.060	312	281	0.0016259
22.070	264	287	0.0019237
22.080	235	293	0.0021633

22.090	345	302	0.0014680
22.100	357	313	0.0014133
22.110	326	328	0.0015623
22.120	306	346	0.0016525
22.130	367	369	0.0013820
22.140	336	400	0.0015140
22.150	454	439	0.0011186
22.160	468	490	0.0010821
22.170	577	557	0.0008805
22.180	616	643	0.0008210
22.190	739	751	0.0006853
22.200	923	879	0.0005485
22.210	1119	1019	0.0004527
22.220	1121	1153	0.0004527
22.230	1265	1250	0.0004000
22.240	1250	1271	0.0004048
22.250	1305	1202	0.0003875
22.260	1108	1066	0.0004566
22.270	917	909	0.0005510
22.280	809	766	0.0006250
22.290	627	650	0.0008071
22.300	488	561	0.0010339
22.310	487	494	0.0010406
22.320	451	444	0.0011186
22.330	400	406	0.0012664
22.340	326	377	0.0015500
22.350	287	355	0.0017654
22.360	310	338	0.0016259
22.370	338	325	0.0014907
22.380	271	316	0.0018579
22.390	283	310	0.0017803
22.400	293	306	0.0017217
22.410	317	305	0.0016000
22.420	317	306	0.0016000
22.430	295	310	0.0017217
22.440	358	317	0.0014133
22.450	289	327	0.0017507
22.460	366	341	0.0013820
22.470	396	360	0.0012755
22.480	412	386	0.0012226
22.490	412	420	0.0012311
22.500	457	465	0.0011037
22.510	509	522	0.0009951
22.520	610	594	0.0008257
22.530	737	678	0.0006853
22.540	893	767	0.0005642
22.550	856	849	0.0005891
22.560	1076	903	0.0004705
22.570	1064	907	0.0004747
22.580	858	856	0.0005891
22.590	842	767	0.0006007
22.600	719	668	0.0007036
22.610	616	578	0.0008210
22.620	511	504	0.0009889

22.630	436	448	0.0011569
22.640	416	404	0.0012140
22.650	418	371	0.0012056
22.660	359	347	0.0014027
22.670	317	328	0.0015873
22.680	301	313	0.0016797
22.690	256	303	0.0019753
22.700	311	295	0.0016259
22.710	331	290	0.0015259
22.720	292	286	0.0017361
22.730	246	285	0.0020475
22.740	248	285	0.0020291
22.750	272	289	0.0018579
22.760	295	295	0.0017075
22.770	290	304	0.0017361
22.780	319	317	0.0015747
22.790	321	334	0.0015747
22.800	367	357	0.0013717
22.810	407	388	0.0012398
22.820	407	431	0.0012398
22.830	514	489	0.0009827
22.840	474	566	0.0010610
22.850	631	664	0.0007980
22.860	862	782	0.0005863
22.870	953	913	0.0005285
22.880	1071	1033	0.0004705
22.890	1224	1106	0.0004114
22.900	1065	1094	0.0004726
22.910	1021	992	0.0004938
22.920	872	845	0.0005778
22.930	677	701	0.0007425
22.940	592	584	0.0008500
22.950	522	497	0.0009645
22.960	409	432	0.0012311
22.970	368	385	0.0013717
22.980	326	349	0.0015500
22.990	360	322	0.0014027
23.000	294	302	0.0017075
23.010	260	286	0.0019407
23.020	266	273	0.0018904
23.030	244	263	0.0020661
23.040	229	255	0.0022041
23.050	213	249	0.0023565
23.060	219	244	0.0023114
23.070	247	239	0.0020475
23.080	229	236	0.0022041
23.090	255	234	0.0019753
23.100	195	232	0.0025767
23.110	227	232	0.0022250
23.120	231	231	0.0021836
23.130	255	232	0.0019753
23.140	227	233	0.0022250
23.150	217	235	0.0023114
23.160	223	238	0.0022461

23.170	239	242	0.0021042
23.180	201	247	0.0025000
23.190	233	254	0.0021633
23.200	235	263	0.0021433
23.210	279	275	0.0017955
23.220	221	291	0.0022676
23.230	257	312	0.0019579
23.240	269	341	0.0018740
23.250	345	382	0.0014568
23.260	337	442	0.0014907
23.270	444	531	0.0011261
23.280	526	662	0.0009526
23.290	699	843	0.0007188
23.300	1011	1079	0.0004960
23.310	1470	1356	0.0003417
23.320	1894	1615	0.0002653
23.330	1942	1702	0.0002585
23.340	1643	1487	0.0003056
23.350	1007	1124	0.0004982
23.360	686	823	0.0007305
23.370	604	625	0.0008305
23.380	486	500	0.0010339
23.390	387	418	0.0012939
23.400	339	364	0.0014793
23.410	303	325	0.0016525
23.420	297	298	0.0016935
23.430	269	277	0.0018579
23.440	243	261	0.0020661
23.450	253	249	0.0019753
23.460	259	239	0.0019407
23.470	205	231	0.0024507
23.480	204	225	0.0024507
23.490	223	219	0.0022461
23.500	223	215	0.0022461
23.510	216	211	0.0023338
23.520	192	208	0.0026031
23.530	188	205	0.0026570
23.540	212	202	0.0023565
23.550	208	200	0.0024029
23.560	200	198	0.0025000
23.570	188	196	0.0026570
23.580	214	195	0.0023338
23.590	172	193	0.0029218
23.600	210	192	0.0023795
23.610	216	191	0.0023114
23.620	176	190	0.0028293
23.630	246	189	0.0020291
23.640	206	189	0.0024267
23.650	188	188	0.0026570
23.660	198	188	0.0025252
23.670	180	187	0.0027701
23.680	200	187	0.0025000
23.690	216	187	0.0023114
23.700	196	187	0.0025508

23.710	182	187	0.0027412
23.720	208	187	0.0024029
23.730	224	188	0.0022250
23.740	172	188	0.0028905
23.750	208	189	0.0024029
23.760	180	191	0.0027701
23.770	164	193	0.0030524
23.780	232	197	0.0021433
23.790	218	202	0.0022893
23.800	158	209	0.0031562
23.810	228	220	0.0021836
23.820	206	234	0.0024267
23.830	276	250	0.0018108
23.840	265	267	0.0018904
23.850	319	275	0.0015623
23.860	276	266	0.0018108
23.870	236	246	0.0021042
23.880	256	227	0.0019407
23.890	200	212	0.0025000
23.900	198	203	0.0025252
23.910	184	197	0.0027127
23.920	202	192	0.0024752
23.930	208	190	0.0024029
23.940	164	187	0.0030524
23.950	196	186	0.0025508
23.960	142	184	0.0035013
23.970	172	183	0.0028905
23.980	166	183	0.0029861
23.990	174	182	0.0028597
24.000	186	182	0.0026846
24.010	190	181	0.0026298
24.020	190	181	0.0026298
24.030	186	181	0.0026846
24.040	174	181	0.0028597
24.050	168	181	0.0029537
24.060	148	181	0.0033802
24.070	192	181	0.0026031
24.080	162	181	0.0030864
24.090	194	181	0.0025767
24.100	186	181	0.0026846
24.110	200	181	0.0025000
24.120	203	180	0.0024752
24.130	160	180	0.0031210
24.140	192	180	0.0026031
24.150	180	181	0.0027701
24.160	205	181	0.0024267
24.170	209	182	0.0023795
24.180	189	182	0.0026570
24.190	160	183	0.0031210
24.200	197	184	0.0025252
24.210	209	185	0.0024029
24.220	176	186	0.0028293
24.230	189	187	0.0026570
24.240	169	188	0.0029537

24.250	205	190	0.0024267
24.260	193	192	0.0025767
24.270	167	194	0.0029861
24.280	167	196	0.0029861
24.290	203	199	0.0024507
24.300	185	202	0.0026846
24.310	209	207	0.0023795
24.320	235	212	0.0021236
24.330	211	218	0.0023565
24.340	217	225	0.0022893
24.350	211	235	0.0023565
24.360	193	247	0.0025767
24.370	301	263	0.0016525
24.380	249	284	0.0019930
24.390	319	311	0.0015623
24.400	337	346	0.0014793
24.410	402	391	0.0012398
24.420	424	445	0.0011728
24.430	460	504	0.0010821
24.440	588	560	0.0008451
24.450	581	595	0.0008600
24.460	550	596	0.0009072
24.470	514	559	0.0009705
24.480	474	498	0.0010473
24.490	418	433	0.0011891
24.500	416	378	0.0011973
24.510	337	335	0.0014793
24.520	287	302	0.0017361
24.530	247	277	0.0020109
24.540	235	259	0.0021236
24.550	247	244	0.0020109
24.560	217	234	0.0022893
24.570	253	225	0.0019753
24.580	185	219	0.0026846
24.590	191	213	0.0026031
24.600	193	209	0.0025767
24.610	209	206	0.0023795
24.620	213	204	0.0023338
24.630	183	202	0.0027127
24.640	201	200	0.0024752
24.650	215	199	0.0023114
24.660	245	197	0.0020291
24.670	185	196	0.0026846
24.680	231	194	0.0021633
24.690	183	193	0.0027412
24.700	185	192	0.0027127
24.710	219	191	0.0022676
24.720	177	191	0.0028293
24.730	191	191	0.0026031
24.740	151	191	0.0033029
24.750	189	191	0.0026298
24.760	227	191	0.0022041
24.770	187	192	0.0026570
24.780	221	193	0.0022461

24.790	191	194	0.0026031
24.800	193	196	0.0025767
24.810	183	199	0.0027412
24.820	193	203	0.0025767
24.830	179	207	0.0027995
24.840	245	213	0.0020291
24.850	239	220	0.0020850
24.860	209	228	0.0023795
24.870	219	236	0.0022676
24.880	249	245	0.0020109
24.890	321	258	0.0015500
24.900	327	278	0.0015259
24.910	269	305	0.0018579
24.920	405	342	0.0012311
24.930	416	388	0.0011973
24.940	448	436	0.0011111
24.950	468	476	0.0010680
24.960	492	489	0.0010142
24.970	488	465	0.0010207
24.980	385	414	0.0012939
24.990	363	359	0.0013717
25.000	309	314	0.0016129
25.010	261	281	0.0019069
25.020	235	257	0.0021236
25.030	211	240	0.0023565
25.040	231	228	0.0021633
25.050	217	219	0.0022893
25.060	199	212	0.0025000
25.070	197	206	0.0025252
25.080	187	202	0.0026570
25.090	209	199	0.0023795
25.100	179	197	0.0027995
25.110	179	195	0.0027995
25.120	193	193	0.0025767
25.130	189	192	0.0026298
25.140	179	191	0.0027995
25.150	221	191	0.0022461
25.160	177	191	0.0028293
25.170	209	191	0.0023795
25.180	163	191	0.0030524
25.190	211	191	0.0023565
25.200	151	192	0.0033029
25.210	183	193	0.0027412
25.220	203	195	0.0024507
25.230	191	197	0.0026031
25.240	201	200	0.0024752
25.250	201	203	0.0024752
25.260	173	208	0.0028905
25.270	207	213	0.0024029
25.280	177	221	0.0028293
25.290	185	231	0.0027127
25.300	245	243	0.0020291
25.310	319	258	0.0015623
25.320	275	275	0.0018108

25.330	267	292	0.0018579
25.340	321	305	0.0015500
25.350	321	311	0.0015500
25.360	287	306	0.0017361
25.370	307	293	0.0016259
25.380	273	277	0.0018263
25.390	293	264	0.0017075
25.400	255	255	0.0019579
25.410	287	250	0.0017361
25.420	247	248	0.0020291
25.430	291	248	0.0017075
25.440	253	248	0.0019753
25.450	281	245	0.0017803
25.460	283	239	0.0017654
25.470	255	230	0.0019579
25.480	281	222	0.0017803
25.490	243	215	0.0020475
25.500	221	209	0.0022676
25.510	225	205	0.0022250
25.520	195	202	0.0025508
25.530	211	201	0.0023565
25.540	185	200	0.0027127
25.550	199	200	0.0025000
25.560	201	201	0.0024752
25.570	203	203	0.0024507
25.580	203	206	0.0024507
25.590	217	210	0.0023114
25.600	217	216	0.0023114
25.610	239	221	0.0020850
25.620	219	227	0.0022893
25.630	265	231	0.0018904
25.640	245	231	0.0020291
25.650	223	228	0.0022461
25.660	263	223	0.0018904
25.670	243	216	0.0020475
25.680	233	209	0.0021433
25.690	221	204	0.0022676
25.700	209	199	0.0023795
25.710	188	196	0.0026570
25.720	204	193	0.0024507
25.730	188	191	0.0026570
25.740	217	189	0.0023114
25.750	186	188	0.0026846
25.760	210	187	0.0023795
25.770	196	186	0.0025508
25.780	172	186	0.0028905
25.790	178	185	0.0027995
25.800	194	185	0.0025767
25.810	176	185	0.0028293
25.820	192	186	0.0026031
25.830	206	186	0.0024267
25.840	172	186	0.0028905
25.850	214	187	0.0023338
25.860	180	187	0.0027701

25.870	176	188	0.0028293
25.880	182	189	0.0027412
25.890	180	190	0.0027701
25.900	196	191	0.0025508
25.910	196	193	0.0025508
25.920	204	195	0.0024507
25.930	208	197	0.0024029
25.940	192	200	0.0026031
25.950	226	202	0.0022041
25.960	198	206	0.0025252
25.970	170	209	0.0029218
25.980	232	214	0.0021433
25.990	224	219	0.0022250
26.000	220	226	0.0022676
26.010	254	234	0.0019579
26.020	196	245	0.0025508
26.030	280	258	0.0017803
26.040	262	274	0.0019069
26.050	310	295	0.0016129
26.060	310	321	0.0016129
26.070	306	352	0.0016391
26.080	360	389	0.0013923
26.090	418	428	0.0011973
26.100	464	464	0.0010750
26.110	498	488	0.0010014
26.120	462	494	0.0010821
26.130	456	478	0.0010964
26.140	430	446	0.0011648
26.150	380	408	0.0013127
26.160	362	372	0.0013820
26.170	322	342	0.0015500
26.180	280	319	0.0017803
26.190	270	303	0.0018579
26.200	288	292	0.0017361
26.210	256	286	0.0019579
26.220	258	285	0.0019407
26.230	264	288	0.0018904
26.240	240	295	0.0020850
26.250	282	308	0.0017803
26.260	360	326	0.0013923
26.270	346	349	0.0014457
26.280	368	374	0.0013616
26.290	402	397	0.0012486
26.300	374	412	0.0013418
26.310	412	413	0.0012140
26.320	392	399	0.0012755
26.330	378	372	0.0013223
26.340	346	342	0.0014457
26.350	312	313	0.0016000
26.360	270	289	0.0018579
26.370	286	270	0.0017507
26.380	228	255	0.0022041
26.390	228	243	0.0022041
26.400	288	234	0.0017361

26.410	216	226	0.0023114
26.420	246	220	0.0020291
26.430	236	215	0.0021236
26.440	202	211	0.0024752
26.450	230	208	0.0021836
26.460	192	205	0.0026031
26.470	158	203	0.0031562
26.480	194	201	0.0025767
26.490	220	200	0.0022676
26.500	226	199	0.0022041
26.510	170	198	0.0029537
26.520	238	198	0.0021042
26.530	180	198	0.0027701
26.540	192	198	0.0026031
26.550	190	199	0.0026298
26.560	220	200	0.0022676
26.570	168	201	0.0029861
26.580	228	202	0.0021836
26.590	186	204	0.0026846
26.600	202	206	0.0024752
26.610	192	209	0.0026031
26.620	164	212	0.0030524
26.630	230	216	0.0021836
26.640	236	220	0.0021236
26.650	218	226	0.0022893
26.660	204	234	0.0024507
26.670	272	243	0.0018420
26.680	222	255	0.0022461
26.690	324	271	0.0015379
26.700	270	292	0.0018420
26.710	308	319	0.0016259
26.720	358	357	0.0013923
26.730	396	408	0.0012575
26.740	502	475	0.0009951
26.750	536	562	0.0009295
26.760	725	662	0.0006889
26.770	721	759	0.0006925
26.780	791	819	0.0006313
26.790	763	796	0.0006541
26.800	695	691	0.0007188
26.810	543	567	0.0009183
26.820	440	466	0.0011337
26.830	380	395	0.0013127
26.840	312	345	0.0016000
26.850	276	309	0.0018108
26.860	336	284	0.0014907
26.870	276	265	0.0018108
26.880	232	251	0.0021433
26.890	264	240	0.0018904
26.900	222	231	0.0022461
26.910	232	225	0.0021433
26.920	232	219	0.0021433
26.930	224	215	0.0022250
26.940	226	211	0.0022041

26.950	212	209	0.0023565
26.960	248	206	0.0020109
26.970	226	204	0.0022041
26.980	230	203	0.0021633
26.990	216	202	0.0023114
27.000	214	201	0.0023338
27.010	186	200	0.0026846
27.020	190	200	0.0026298
27.030	218	200	0.0022893
27.040	238	200	0.0020850
27.050	222	200	0.0022461
27.060	210	201	0.0023795
27.070	222	201	0.0022461
27.080	211	202	0.0023795
27.090	245	203	0.0020475
27.100	233	205	0.0021433
27.110	223	207	0.0022461
27.120	221	209	0.0022676
27.130	235	211	0.0021236
27.140	207	214	0.0024029
27.150	217	217	0.0023114
27.160	213	221	0.0023338
27.170	247	226	0.0020109
27.180	237	232	0.0021042
27.190	225	239	0.0022250
27.200	215	248	0.0023114
27.210	229	259	0.0021836
27.220	243	272	0.0020475
27.230	293	289	0.0016935
27.240	293	310	0.0017075
27.250	283	338	0.0017654
27.260	377	373	0.0013223
27.270	373	419	0.0013320
27.280	456	476	0.0010892
27.290	518	545	0.0009585
27.300	601	622	0.0008305
27.310	659	697	0.0007547
27.320	754	752	0.0006608
27.330	798	767	0.0006250
27.340	692	735	0.0007188
27.350	681	668	0.0007305
27.360	631	588	0.0007890
27.370	492	513	0.0010142
27.380	436	451	0.0011413
27.390	412	403	0.0012056
27.400	352	367	0.0014133
27.410	300	341	0.0016660
27.420	314	322	0.0015873
27.430	312	309	0.0016000
27.440	302	301	0.0016525
27.450	298	297	0.0016660
27.460	286	297	0.0017361
27.470	296	300	0.0016797
27.480	350	305	0.0014240

27.490	312	311	0.0016000
27.500	330	315	0.0015140
27.510	324	315	0.0015379
27.520	296	311	0.0016797
27.530	302	304	0.0016525
27.540	330	296	0.0015023
27.550	292	289	0.0017075
27.560	272	285	0.0018263
27.570	332	284	0.0015023
27.580	274	286	0.0018108
27.590	318	292	0.0015623
27.600	300	302	0.0016525
27.610	326	318	0.0015259
27.620	326	341	0.0015259
27.630	352	375	0.0014133
27.640	419	423	0.0011891
27.650	463	493	0.0010750
27.660	578	590	0.0008600
27.670	739	715	0.0006712
27.680	860	858	0.0005778
27.690	1062	981	0.0004685
27.700	993	1024	0.0005005
27.710	941	958	0.0005285
27.720	843	839	0.0005891
27.730	679	742	0.0007305
27.740	728	695	0.0006817
27.750	661	692	0.0007506
27.760	703	718	0.0007073
27.770	752	751	0.0006608
27.780	758	765	0.0006541
27.790	757	738	0.0006541
27.800	702	668	0.0007073
27.810	617	581	0.0008025
27.820	464	500	0.0010680
27.830	387	434	0.0012847
27.840	355	384	0.0013923
27.850	345	346	0.0014348
27.860	333	319	0.0014907
27.870	285	298	0.0017361
27.880	299	282	0.0016525
27.890	252	270	0.0019579
27.900	234	261	0.0021236
27.910	303	254	0.0016391
27.920	267	249	0.0018579
27.930	271	245	0.0018263
27.940	204	243	0.0024267
27.950	261	242	0.0019069
27.960	236	242	0.0020850
27.970	246	243	0.0020109
27.980	253	246	0.0019579
27.990	253	249	0.0019579
28.000	214	255	0.0023114
28.010	293	262	0.0016935
28.020	279	271	0.0017803

28.030	277	282	0.0017803
28.040	303	298	0.0016259
28.050	332	317	0.0014907
28.060	325	342	0.0015259
28.070	398	374	0.0012398
28.080	445	414	0.0011111
28.090	488	463	0.0010142
28.100	556	520	0.0008911
28.110	680	579	0.0007265
28.120	613	631	0.0008071
28.130	680	664	0.0007265
28.140	725	667	0.0006817
28.150	650	640	0.0007589
28.160	676	592	0.0007305
28.170	601	538	0.0008210
28.180	500	489	0.0009889
28.190	474	450	0.0010406
28.200	452	421	0.0010964
28.210	354	400	0.0013923
28.220	393	381	0.0012575
28.230	371	362	0.0013320
28.240	316	340	0.0015623
28.250	344	317	0.0014348
28.260	302	295	0.0016391
28.270	267	276	0.0018420
28.280	253	260	0.0019579
28.290	243	247	0.0020291
28.300	239	237	0.0020661
28.310	241	228	0.0020475
28.320	227	222	0.0021836
28.330	203	216	0.0024267
28.340	180	211	0.0027412
28.350	201	207	0.0024507
28.360	193	204	0.0025508
28.370	213	201	0.0023114
28.380	174	199	0.0028293
28.390	178	197	0.0027701
28.400	191	195	0.0025767
28.410	217	194	0.0022676
28.420	205	193	0.0024029
28.430	221	192	0.0022250
28.440	215	191	0.0022893
28.450	193	191	0.0025508
28.460	221	191	0.0022250
28.470	252	190	0.0019579
28.480	183	191	0.0026846
28.490	223	191	0.0022041
28.500	191	192	0.0025767
28.510	201	193	0.0024507
28.520	207	194	0.0023795
28.530	185	196	0.0026570
28.540	213	198	0.0023114
28.550	181	201	0.0027127
28.560	191	205	0.0025767

28.570	205	211	0.0024029
28.580	238	218	0.0020661
28.590	224	227	0.0022041
28.600	242	239	0.0020291
28.610	256	255	0.0019237
28.620	212	276	0.0023338
28.630	262	300	0.0018740
28.640	323	328	0.0015259
28.650	368	355	0.0013320
28.660	401	372	0.0012226
28.670	389	374	0.0012664
28.680	356	358	0.0013820
28.690	352	330	0.0013923
28.700	299	300	0.0016391
28.710	315	273	0.0015623
28.720	242	251	0.0020291
28.730	259	234	0.0019069
28.740	216	221	0.0022676
28.750	226	211	0.0021836
28.760	199	204	0.0024507
28.770	179	198	0.0027412
28.780	250	193	0.0019579
28.790	216	189	0.0022676
28.800	191	186	0.0025767
28.810	177	184	0.0027701
28.820	165	182	0.0029861
28.830	208	180	0.0023565
28.840	185	178	0.0026570
28.850	161	177	0.0030524
28.860	161	176	0.0030524
28.870	187	175	0.0026298
28.880	201	174	0.0024507
28.890	187	173	0.0026298
28.900	185	173	0.0026570
28.910	146	172	0.0033412
28.920	161	171	0.0030524
28.930	163	171	0.0030190
28.940	204	171	0.0024029
28.950	204	170	0.0024029
28.960	171	170	0.0028597
28.970	171	170	0.0028597
28.980	155	170	0.0031919
28.990	161	169	0.0030524
29.000	181	169	0.0027127
29.010	165	169	0.0029861
29.020	169	169	0.0028905
29.030	167	168	0.0029537
29.040	193	168	0.0025252
29.050	143	168	0.0034602
29.060	134	167	0.0036731
29.070	187	167	0.0026298
29.080	159	167	0.0030864
29.090	159	167	0.0030864
29.100	173	166	0.0028293

29.110	192	166	0.0025508
29.120	161	166	0.0030524
29.130	173	166	0.0028293
29.140	155	166	0.0031562
29.150	165	166	0.0029861
29.160	175	166	0.0027995
29.170	165	166	0.0029861
29.180	198	166	0.0024752
29.190	188	166	0.0026031
29.200	167	166	0.0029218
29.210	190	166	0.0025767
29.220	173	166	0.0028293
29.230	177	166	0.0027701
29.240	182	166	0.0027127
29.250	175	166	0.0027995
29.260	177	166	0.0027701
29.270	184	166	0.0026570
29.280	128	166	0.0038104
29.290	161	167	0.0030524
29.300	165	167	0.0029537
29.310	163	167	0.0030190
29.320	147	168	0.0033412
29.330	159	168	0.0030864
29.340	137	169	0.0035856
29.350	184	170	0.0026570
29.360	200	171	0.0024507
29.370	180	173	0.0027412
29.380	157	175	0.0031210
29.390	206	178	0.0023795
29.400	182	182	0.0027127
29.410	190	188	0.0025767
29.420	149	195	0.0033029
29.430	202	203	0.0024267
29.440	202	209	0.0024267
29.450	204	209	0.0024029
29.460	196	204	0.0025000
29.470	206	196	0.0023795
29.480	145	188	0.0033802
29.490	192	183	0.0025508
29.500	198	179	0.0024752
29.510	204	176	0.0024029
29.520	169	174	0.0028905
29.530	165	173	0.0029537
29.540	204	172	0.0024029
29.550	179	171	0.0027412
29.560	198	171	0.0024752
29.570	212	171	0.0023114
29.580	194	171	0.0025252
29.590	186	172	0.0026570
29.600	167	173	0.0029218
29.610	163	174	0.0030190
29.620	188	175	0.0026031
29.630	128	177	0.0038104
29.640	190	179	0.0025767

29.650	167	181	0.0029218
29.660	157	185	0.0031210
29.670	184	188	0.0026846
29.680	149	191	0.0033029
29.690	196	194	0.0025000
29.700	210	195	0.0023338
29.710	202	194	0.0024267
29.720	181	191	0.0027127
29.730	204	187	0.0024029
29.740	214	184	0.0022893
29.750	157	182	0.0031210
29.760	167	181	0.0029218
29.770	184	181	0.0026846
29.780	200	181	0.0024507
29.790	186	182	0.0026298
29.800	200	183	0.0024507
29.810	206	185	0.0023795
29.820	194	187	0.0025252
29.830	177	190	0.0027701
29.840	230	194	0.0021236
29.850	188	199	0.0026031
29.860	208	206	0.0023565
29.870	163	214	0.0030190
29.880	237	225	0.0020661
29.890	261	239	0.0018740
29.900	267	255	0.0018263
29.910	279	275	0.0017507
29.920	275	296	0.0017803
29.930	273	315	0.0017955
29.940	328	327	0.0014907
29.950	318	328	0.0015379
29.960	337	317	0.0014568
29.970	261	299	0.0018740
29.980	245	277	0.0020109
29.990	271	258	0.0018108
30.000	228	241	0.0021433
30.010	235	228	0.0020850
30.020	180	218	0.0027412
30.030	190	210	0.0025767
30.040	243	205	0.0020291
30.050	216	201	0.0022676
30.060	198	199	0.0024752
30.070	198	198	0.0024752
30.080	180	197	0.0027412
30.090	182	197	0.0027127
30.100	177	197	0.0027701
30.110	190	197	0.0025767
30.120	200	195	0.0024507
30.130	163	192	0.0030190
30.140	200	189	0.0024507
30.150	224	186	0.0021836
30.160	159	183	0.0030864
30.170	183	180	0.0026846
30.180	196	179	0.0025000

30.190	196	177	0.0025000
30.200	155	176	0.0031562
30.210	175	175	0.0027995
30.220	145	175	0.0033802
30.230	184	175	0.0026846
30.240	165	174	0.0029861
30.250	190	175	0.0025767
30.260	161	175	0.0030524
30.270	175	175	0.0027995
30.280	145	176	0.0033802
30.290	212	176	0.0023114
30.300	194	177	0.0025252
30.310	181	178	0.0027127
30.320	194	179	0.0025252
30.330	202	181	0.0024267
30.340	155	183	0.0031562
30.350	192	185	0.0025508
30.360	185	187	0.0026570
30.370	190	187	0.0025767
30.380	187	186	0.0026298
30.390	173	184	0.0028293
30.400	147	183	0.0033412
30.410	155	181	0.0031562
30.420	169	181	0.0028905
30.430	206	180	0.0023795
30.440	216	181	0.0022676
30.450	171	181	0.0028597
30.460	145	183	0.0033802
30.470	196	185	0.0025000
30.480	192	188	0.0025508
30.490	171	192	0.0028597
30.500	194	197	0.0025252
30.510	210	204	0.0023338
30.520	222	212	0.0022041
30.530	214	220	0.0022893
30.540	247	224	0.0019930
30.550	200	225	0.0024507
30.560	245	223	0.0020109
30.570	210	223	0.0023338
30.580	208	225	0.0023565
30.590	236	231	0.0020850
30.600	236	240	0.0020850
30.610	277	252	0.0017654
30.620	257	268	0.0019069
30.630	287	288	0.0017075
30.640	302	312	0.0016259
30.650	349	342	0.0014027
30.660	385	375	0.0012755
30.670	424	407	0.0011569
30.680	447	432	0.0010964
30.690	506	444	0.0009705
30.700	451	437	0.0010892
30.710	479	414	0.0010273
30.720	402	382	0.0012226

30.730	318	348	0.0015500
30.740	291	319	0.0016797
30.750	287	295	0.0017075
30.760	259	276	0.0018904
30.770	226	262	0.0021633
30.780	251	251	0.0019579
30.790	245	244	0.0020109
30.800	243	239	0.0020291
30.810	196	237	0.0025000
30.820	204	237	0.0024029
30.830	232	239	0.0021042
30.840	240	243	0.0020475
30.850	228	250	0.0021433
30.860	246	260	0.0019930
30.870	259	273	0.0018904
30.880	271	291	0.0018108
30.890	303	312	0.0016129
30.900	293	336	0.0016797
30.910	336	362	0.0014568
30.920	330	384	0.0014907
30.930	399	399	0.0012311
30.940	387	401	0.0012664
30.950	348	388	0.0014133
30.960	360	363	0.0013616
30.970	346	333	0.0014240
30.980	309	304	0.0015873
30.990	275	279	0.0017955
31.000	222	259	0.0022250
31.010	257	243	0.0019237
31.020	218	231	0.0022461
31.030	183	221	0.0026846
31.040	205	212	0.0024029
31.050	216	206	0.0022676
31.060	206	201	0.0023795
31.070	193	196	0.0025508
31.080	173	193	0.0028293
31.090	193	190	0.0025508
31.100	183	188	0.0026846
31.110	193	186	0.0025508
31.120	175	185	0.0027995
31.130	210	185	0.0023565
31.140	179	184	0.0027412
31.150	214	185	0.0022893
31.160	161	185	0.0030524
31.170	189	185	0.0026031
31.180	232	185	0.0021236
31.190	246	185	0.0019930
31.200	181	184	0.0027127
31.210	193	182	0.0025508
31.220	183	181	0.0026846
31.230	234	180	0.0021042
31.240	189	179	0.0026031
31.250	161	179	0.0030524
31.260	179	178	0.0027412

31.270	163	179	0.0030190
31.280	199	179	0.0024752
31.290	218	180	0.0022676
31.300	201	180	0.0024507
31.310	199	182	0.0024752
31.320	189	183	0.0026031
31.330	193	185	0.0025508
31.340	205	187	0.0024029
31.350	152	189	0.0032283
31.360	181	192	0.0027127
31.370	167	195	0.0029537
31.380	183	199	0.0026846
31.390	231	204	0.0021236
31.400	211	210	0.0023338
31.410	237	218	0.0020661
31.420	227	227	0.0021633
31.430	233	239	0.0021042
31.440	241	253	0.0020475
31.450	272	270	0.0018108
31.460	284	290	0.0017361
31.470	276	312	0.0017803
31.480	343	335	0.0014348
31.490	359	355	0.0013717
31.500	444	371	0.0011111
31.510	428	381	0.0011491
31.520	359	389	0.0013717
31.530	394	398	0.0012486
31.540	406	413	0.0012140
31.550	447	436	0.0011037
31.560	514	463	0.0009585
31.570	483	488	0.0010207
31.580	508	500	0.0009705
31.590	447	489	0.0011037
31.600	422	457	0.0011648
31.610	404	413	0.0012226
31.620	331	368	0.0014907
31.630	319	329	0.0015379
31.640	240	298	0.0020475
31.650	280	274	0.0017507
31.660	213	255	0.0023114
31.670	264	240	0.0018579
31.680	218	229	0.0022676
31.690	236	220	0.0020850
31.700	216	213	0.0022893
31.710	218	208	0.0022676
31.720	205	204	0.0024029
31.730	201	200	0.0024507
31.740	195	198	0.0025252
31.750	197	196	0.0024752
31.760	224	194	0.0021836
31.770	194	194	0.0025252
31.780	157	194	0.0031210
31.790	171	194	0.0028597
31.800	194	195	0.0025252

31.810	204	197	0.0024029
31.820	180	200	0.0027412
31.830	200	205	0.0024507
31.840	237	211	0.0020661
31.850	176	220	0.0027995
31.860	316	231	0.0015500
31.870	237	246	0.0020661
31.880	325	264	0.0015023
31.890	294	282	0.0016660
31.900	315	296	0.0015500
31.910	317	301	0.0015379
31.920	331	296	0.0014793
31.930	270	286	0.0018108
31.940	284	279	0.0017217
31.950	258	275	0.0018904
31.960	254	274	0.0019237
31.970	316	274	0.0015500
31.980	242	272	0.0020109
31.990	279	267	0.0017507
32.000	256	260	0.0019069
32.010	291	252	0.0016660
32.020	238	246	0.0020475
32.030	294	243	0.0016525
32.040	228	242	0.0021433
32.050	236	245	0.0020661
32.060	230	252	0.0021042
32.070	296	264	0.0016391
32.080	263	283	0.0018420
32.090	329	312	0.0014793
32.100	371	355	0.0013127
32.110	455	418	0.0010680
32.120	544	502	0.0008911
32.130	628	597	0.0007716
32.140	742	671	0.0006541
32.150	734	677	0.0006608
32.160	575	606	0.0008451
32.170	526	503	0.0009239
32.180	416	414	0.0011648
32.190	384	350	0.0012664
32.200	320	308	0.0015140
32.210	247	279	0.0019579
32.220	272	260	0.0017803
32.230	216	248	0.0022461
32.240	229	240	0.0021236
32.250	237	235	0.0020475
32.260	248	233	0.0019579
32.270	266	234	0.0018263
32.280	235	237	0.0020661
32.290	266	242	0.0018263
32.300	291	251	0.0016660
32.310	282	262	0.0017217
32.320	324	277	0.0014907
32.330	305	295	0.0015873
32.340	307	315	0.0015747

32.350	378	335	0.0012847
32.360	398	350	0.0012140
32.370	392	358	0.0012311
32.380	355	354	0.0013616
32.390	386	341	0.0012575
32.400	365	324	0.0013223
32.410	302	306	0.0016000
32.420	324	292	0.0014907
32.430	264	281	0.0018263
32.440	297	274	0.0016259
32.450	291	271	0.0016660
32.460	264	272	0.0018263
32.470	293	277	0.0016525
32.480	310	285	0.0015623
32.490	351	295	0.0013717
32.500	260	307	0.0018579
32.510	354	317	0.0013717
32.520	362	324	0.0013418
32.530	426	326	0.0011337
32.540	329	322	0.0014680
32.550	350	315	0.0013820
32.560	350	308	0.0013820
32.570	261	303	0.0018579
32.580	294	301	0.0016391
32.590	319	304	0.0015140
32.600	271	312	0.0017803
32.610	290	327	0.0016660
32.620	367	349	0.0013127
32.630	375	382	0.0012847
32.640	431	428	0.0011186
32.650	475	489	0.0010142
32.660	543	564	0.0008858
32.670	697	643	0.0006925
32.680	763	707	0.0006313
32.690	730	733	0.0006608
32.700	647	714	0.0007465
32.710	732	669	0.0006575
32.720	564	624	0.0008550
32.730	576	595	0.0008353
32.740	544	581	0.0008858
32.750	595	574	0.0008117
32.760	620	560	0.0007759
32.770	531	531	0.0009072
32.780	469	488	0.0010273
32.790	471	439	0.0010273
32.800	378	393	0.0012755
32.810	315	353	0.0015259
32.820	280	321	0.0017217
32.830	272	296	0.0017803
32.840	247	277	0.0019579
32.850	290	262	0.0016660
32.860	241	251	0.0020109
32.870	249	243	0.0019407
32.880	238	237	0.0020291

32.890	238	234	0.0020291
32.900	220	233	0.0022041
32.910	207	233	0.0023338
32.920	236	234	0.0020475
32.930	218	232	0.0022250
32.940	265	229	0.0018108
32.950	209	227	0.0023114
32.960	222	226	0.0021836
32.970	228	228	0.0021236
32.980	216	231	0.0022461
32.990	220	236	0.0022041
33.000	245	243	0.0019753
33.010	226	252	0.0021433
33.020	255	264	0.0018904
33.030	214	278	0.0022676
33.040	240	295	0.0020109
33.050	296	314	0.0016259
33.060	317	336	0.0015259
33.070	359	360	0.0013418
33.080	352	388	0.0013717
33.090	381	421	0.0012664
33.100	437	460	0.0011037
33.110	495	505	0.0009766
33.120	524	552	0.0009183
33.130	611	591	0.0007890
33.140	595	610	0.0008117
33.150	630	603	0.0007673
33.160	559	569	0.0008651
33.170	509	519	0.0009467
33.180	501	463	0.0009645
33.190	358	412	0.0013516
33.200	344	367	0.0014027
33.210	292	330	0.0016525
33.220	296	301	0.0016259
33.230	302	277	0.0016000
33.240	263	258	0.0018420
33.250	248	242	0.0019407
33.260	234	230	0.0020661
33.270	199	220	0.0024267
33.280	193	211	0.0025000
33.290	197	204	0.0024507
33.300	230	198	0.0021042
33.310	184	193	0.0026298
33.320	213	188	0.0022676
33.330	190	184	0.0025252
33.340	213	181	0.0022676
33.350	205	178	0.0023565
33.360	205	176	0.0023565
33.370	178	173	0.0027127
33.380	192	171	0.0025000
33.390	215	170	0.0022461
33.400	159	168	0.0030190
33.410	151	166	0.0031919
33.420	168	165	0.0028905

33.430	188	164	0.0025767
33.440	188	163	0.0025767
33.450	157	162	0.0030864
33.460	201	161	0.0024029
33.470	209	160	0.0023114
33.480	180	160	0.0026846
33.490	182	159	0.0026570
33.500	180	158	0.0026846
33.510	163	158	0.0029537
33.520	184	157	0.0026298
33.530	178	157	0.0027127
33.540	132	156	0.0036731
33.550	163	156	0.0029537
33.560	171	155	0.0028293
33.570	149	155	0.0032653
33.580	180	154	0.0026846
33.590	182	154	0.0026570
33.600	167	154	0.0028905
33.610	180	153	0.0026846
33.620	190	153	0.0025508
33.630	161	153	0.0030190
33.640	147	153	0.0033029
33.650	140	152	0.0034602
33.660	138	152	0.0035013
33.670	184	152	0.0026298
33.680	173	152	0.0027995
33.690	175	152	0.0027701
33.700	153	151	0.0031919
33.710	169	151	0.0028597
33.720	198	151	0.0024507
33.730	173	151	0.0027995
33.740	177	151	0.0027412
33.750	181	151	0.0026846
33.760	159	151	0.0030524
33.770	183	150	0.0026570
33.780	188	150	0.0025767
33.790	159	150	0.0030524
33.800	142	150	0.0034199
33.810	173	150	0.0027995
33.820	150	150	0.0032283
33.830	144	150	0.0033802
33.840	173	150	0.0027995
33.850	150	150	0.0032283
33.860	154	150	0.0031562
33.870	189	150	0.0025508
33.880	136	150	0.0035856
33.890	152	151	0.0031919
33.900	167	151	0.0029218
33.910	179	151	0.0027127
33.920	216	151	0.0022461
33.930	169	151	0.0028905
33.940	146	152	0.0033412
33.950	138	152	0.0035431
33.960	162	153	0.0029861

33.970	132	154	0.0036731
33.980	187	155	0.0026031
33.990	177	156	0.0027412
34.000	144	158	0.0033802
34.010	148	161	0.0033029
34.020	150	165	0.0032283
34.030	140	171	0.0034602
34.040	193	178	0.0025252
34.050	216	184	0.0022461
34.060	152	187	0.0031919
34.070	168	185	0.0028905
34.080	185	179	0.0026298
34.090	177	173	0.0027701
34.100	201	169	0.0024267
34.110	166	167	0.0029218
34.120	158	166	0.0030864
34.130	175	166	0.0027995
34.140	166	167	0.0029218
34.150	144	169	0.0033802
34.160	142	173	0.0034199
34.170	166	177	0.0029218
34.180	205	183	0.0023795
34.190	220	188	0.0022250
34.200	253	192	0.0019237
34.210	193	192	0.0025252
34.220	168	190	0.0028905
34.230	222	185	0.0022041
34.240	181	181	0.0026846
34.250	133	178	0.0036290
34.260	207	176	0.0023565
34.270	168	175	0.0028905
34.280	168	175	0.0028905
34.290	170	176	0.0028597
34.300	187	178	0.0026031
34.310	183	181	0.0026570
34.320	187	185	0.0026031
34.330	191	191	0.0025508
34.340	232	197	0.0021042
34.350	218	206	0.0022461
34.360	220	217	0.0022250
34.370	281	231	0.0017361
34.380	248	248	0.0019579
34.390	249	267	0.0019579
34.400	277	288	0.0017507
34.410	327	309	0.0014907
34.420	366	324	0.0013320
34.430	366	328	0.0013320
34.440	368	317	0.0013223
34.450	312	294	0.0015623
34.460	234	269	0.0020850
34.470	240	247	0.0020291
34.480	246	229	0.0019753
34.490	197	216	0.0024752
34.500	226	206	0.0021633

34.510	208	198	0.0023565
34.520	210	192	0.0023338
34.530	175	188	0.0027995
34.540	121	185	0.0040058
34.550	181	184	0.0026846
34.560	189	183	0.0025767
34.570	199	183	0.0024507
34.580	179	184	0.0027127
34.590	191	186	0.0025508
34.600	216	189	0.0022676
34.610	220	193	0.0022041
34.620	203	197	0.0024029
34.630	208	201	0.0023338
34.640	247	203	0.0019753
34.650	230	203	0.0021236
34.660	191	201	0.0025508
34.670	236	199	0.0020661
34.680	197	196	0.0024752
34.690	212	193	0.0022893
34.700	197	192	0.0024752
34.710	197	192	0.0024752
34.720	199	193	0.0024507
34.730	183	195	0.0026570
34.740	193	198	0.0025252
34.750	185	203	0.0026298
34.760	216	208	0.0022461
34.770	197	213	0.0024752
34.780	238	217	0.0020475
34.790	220	220	0.0022250
34.800	232	220	0.0021042
34.810	302	219	0.0016129
34.820	255	218	0.0019069
34.830	216	218	0.0022461
34.840	189	219	0.0025767
34.850	191	222	0.0025508
34.860	205	227	0.0023795
34.870	193	235	0.0025252
34.880	259	246	0.0018740
34.890	265	260	0.0018420
34.900	273	278	0.0017803
34.910	335	299	0.0014568
34.920	333	322	0.0014680
34.930	353	344	0.0013820
34.940	370	362	0.0013127
34.950	351	375	0.0013820
34.960	364	385	0.0013418
34.970	415	396	0.0011728
34.980	456	411	0.0010680
34.990	417	429	0.0011648
35.000	444	444	0.0010964
35.010	477	447	0.0010207
35.020	448	434	0.0010892
35.030	452	407	0.0010750
35.040	432	373	0.0011261

35.050	335	338	0.0014568
35.060	271	307	0.0017955
35.070	259	281	0.0018740
35.080	216	261	0.0022461
35.090	230	245	0.0021042
35.100	220	233	0.0022041
35.110	195	224	0.0025000
35.120	237	217	0.0020475
35.130	214	212	0.0022676
35.140	169	209	0.0028905
35.150	202	207	0.0024029
35.160	187	207	0.0026031
35.170	181	208	0.0026846
35.180	216	211	0.0022461
35.190	255	216	0.0019069
35.200	229	222	0.0021236
35.210	245	232	0.0019753
35.220	229	244	0.0021236
35.230	272	262	0.0017803
35.240	253	285	0.0019237
35.250	282	317	0.0017217
35.260	340	359	0.0014240
35.270	416	415	0.0011648
35.280	451	483	0.0010750
35.290	608	556	0.0007980
35.300	625	620	0.0007759
35.310	627	646	0.0007759
35.320	623	616	0.0007803
35.330	476	539	0.0010207
35.340	443	453	0.0010964
35.350	379	381	0.0012755
35.360	268	328	0.0018108
35.370	295	289	0.0016391
35.380	264	260	0.0018420
35.390	177	239	0.0027412
35.400	204	223	0.0023795
35.410	182	211	0.0026846
35.420	192	201	0.0025252
35.430	213	194	0.0022893
35.440	229	188	0.0021236
35.450	204	183	0.0023795
35.460	200	179	0.0024267
35.470	182	177	0.0026570
35.480	178	174	0.0027127
35.490	167	173	0.0028905
35.500	194	172	0.0025000
35.510	165	171	0.0029218
35.520	171	171	0.0028293
35.530	188	170	0.0025767
35.540	180	169	0.0026846
35.550	192	168	0.0025252
35.560	176	167	0.0027412
35.570	178	167	0.0027127
35.580	161	167	0.0029861

35.590	143	168	0.0033802
35.600	196	170	0.0024507
35.610	201	172	0.0024029
35.620	165	175	0.0029218
35.630	192	180	0.0025252
35.640	194	187	0.0024752
35.650	190	196	0.0025508
35.660	205	206	0.0023565
35.670	252	217	0.0019237
35.680	211	226	0.0022893
35.690	259	233	0.0018740
35.700	251	241	0.0019237
35.710	284	250	0.0017075
35.720	304	259	0.0015873
35.730	286	263	0.0016935
35.740	304	261	0.0015873
35.750	300	253	0.0016129
35.760	296	239	0.0016259
35.770	245	225	0.0019753
35.780	220	212	0.0022041
35.790	197	201	0.0024507
35.800	197	193	0.0024507
35.810	207	186	0.0023338
35.820	203	181	0.0023795
35.830	195	178	0.0024752
35.840	197	176	0.0024507
35.850	180	174	0.0026846
35.860	176	172	0.0027412
35.870	183	171	0.0026298
35.880	168	169	0.0028597
35.890	143	167	0.0033802
35.900	166	165	0.0028905
35.910	160	162	0.0030190
35.920	143	160	0.0033802
35.930	154	159	0.0031210
35.940	160	157	0.0030190
35.950	149	156	0.0032283
35.960	160	155	0.0030190
35.970	154	154	0.0031210
35.980	147	153	0.0032653
35.990	158	153	0.0030524
36.000	125	152	0.0038579
36.010	162	152	0.0029861
36.020	150	152	0.0032283
36.030	172	152	0.0027995
36.040	129	152	0.0037180
36.050	158	152	0.0030524
36.060	160	152	0.0030190
36.070	137	153	0.0035013
36.080	148	153	0.0032653
36.090	160	154	0.0030190
36.100	166	154	0.0028905
36.110	152	155	0.0031562
36.120	181	156	0.0026570

36.130	160	157	0.0029861
36.140	169	158	0.0028597
36.150	148	159	0.0032653
36.160	137	161	0.0035013
36.170	162	162	0.0029537
36.180	156	164	0.0030864
36.190	183	167	0.0026298
36.200	212	169	0.0022676
36.210	144	172	0.0033412
36.220	188	176	0.0025508
36.230	133	180	0.0035856
36.240	185	185	0.0025767
36.250	150	192	0.0031919
36.260	188	199	0.0025508
36.270	219	209	0.0021836
36.280	200	221	0.0024029
36.290	217	237	0.0022041
36.300	231	257	0.0020661
36.310	200	283	0.0024029
36.320	309	319	0.0015500
36.330	315	367	0.0015259
36.340	375	431	0.0012755
36.350	507	515	0.0009467
36.360	668	616	0.0007188
36.370	747	717	0.0006409
36.380	805	783	0.0005949
36.390	766	773	0.0006250
36.400	682	690	0.0007036
36.410	549	580	0.0008753
36.420	526	484	0.0009127
36.430	421	413	0.0011413
36.440	365	362	0.0013127
36.450	307	325	0.0015623
36.460	259	298	0.0018579
36.470	257	279	0.0018740
36.480	250	265	0.0019069
36.490	263	256	0.0018263
36.500	238	252	0.0020109
36.510	244	251	0.0019579
36.520	273	256	0.0017507
36.530	286	265	0.0016797
36.540	294	282	0.0016259
36.550	311	306	0.0015379
36.560	351	340	0.0013717
36.570	384	380	0.0012486
36.580	434	417	0.0011037
36.590	467	436	0.0010273
36.600	405	426	0.0011809
36.610	382	393	0.0012575
36.620	403	353	0.0011891
36.630	319	319	0.0015023
36.640	282	295	0.0017075
36.650	240	280	0.0019930
36.660	238	272	0.0020109

36.670	257	270	0.0018740
36.680	246	273	0.0019407
36.690	290	281	0.0016525
36.700	282	294	0.0017075
36.710	292	313	0.0016391
36.720	313	337	0.0015259
36.730	363	368	0.0013223
36.740	409	404	0.0011728
36.750	432	445	0.0011111
36.760	497	489	0.0009645
36.770	572	531	0.0008402
36.780	595	565	0.0008071
36.790	628	581	0.0007631
36.800	566	573	0.0008451
36.810	543	543	0.0008858
36.820	528	499	0.0009072
36.830	459	450	0.0010473
36.840	348	402	0.0013717
36.850	373	360	0.0012847
36.860	298	325	0.0016129
36.870	313	295	0.0015379
36.880	240	271	0.0019930
36.890	238	252	0.0020109
36.900	206	236	0.0023338
36.910	194	223	0.0024752
36.920	186	212	0.0025767
36.930	190	203	0.0025252
36.940	165	196	0.0029218
36.950	184	189	0.0026031
36.960	175	184	0.0027412
36.970	163	179	0.0029537
36.980	142	176	0.0033802
36.990	171	172	0.0027995
37.000	161	169	0.0029861
37.010	163	167	0.0029537
37.020	127	165	0.0037638
37.030	194	164	0.0024752
37.040	167	162	0.0028597
37.050	140	162	0.0034199
37.060	146	161	0.0033029
37.070	150	161	0.0031919
37.080	169	162	0.0028293
37.090	156	163	0.0030524
37.100	179	165	0.0026846
37.110	194	167	0.0024752
37.120	181	169	0.0026570
37.130	150	171	0.0031919
37.140	175	171	0.0027412
37.150	160	170	0.0029861
37.160	171	168	0.0027995
37.170	152	164	0.0031562
37.180	163	161	0.0029537
37.190	160	158	0.0029861
37.200	131	155	0.0036731

37.210	123	153	0.0039063
37.220	183	151	0.0026031
37.230	131	150	0.0036731
37.240	129	149	0.0037180
37.250	117	149	0.0041091
37.260	152	149	0.0031562
37.270	144	149	0.0033412
37.280	163	150	0.0029537
37.290	142	149	0.0033802
37.300	171	148	0.0027995
37.310	144	147	0.0033412
37.320	133	146	0.0035856
37.330	135	145	0.0035431
37.340	160	144	0.0029861
37.350	158	144	0.0030190
37.360	162	143	0.0029537
37.370	135	143	0.0035431
37.380	154	143	0.0031210
37.390	150	144	0.0031919
37.400	142	144	0.0033802
37.410	123	144	0.0039063
37.420	175	145	0.0027412
37.430	146	145	0.0033029
37.440	137	146	0.0035013
37.450	123	147	0.0039063
37.460	98	149	0.0048902
37.470	140	150	0.0034602
37.480	152	152	0.0031562
37.490	150	155	0.0031919
37.500	169	157	0.0028597
37.510	139	161	0.0034602
37.520	156	165	0.0030864
37.530	194	170	0.0024752
37.540	152	176	0.0031562
37.550	183	183	0.0026298
37.560	183	192	0.0026298
37.570	223	202	0.0021633
37.580	250	213	0.0019237
37.590	241	225	0.0019930
37.600	235	235	0.0020475
37.610	291	243	0.0016525
37.620	252	247	0.0019069
37.630	295	245	0.0016259
37.640	262	238	0.0018420
37.650	210	229	0.0022893
37.660	216	218	0.0022250
37.670	189	208	0.0025508
37.680	216	199	0.0022250
37.690	166	192	0.0028905
37.700	187	187	0.0025767
37.710	183	183	0.0026298
37.720	181	181	0.0026570
37.730	162	181	0.0029861
37.740	156	183	0.0030864

37.750	183	186	0.0026298
37.760	152	191	0.0031562
37.770	204	196	0.0023565
37.780	193	200	0.0025000
37.790	202	204	0.0023795
37.800	224	207	0.0021433
37.810	204	210	0.0023565
37.820	177	212	0.0027127
37.830	199	211	0.0024029
37.840	212	206	0.0022676
37.850	164	199	0.0029218
37.860	210	191	0.0022893
37.870	174	183	0.0027701
37.880	195	175	0.0024752
37.890	181	168	0.0026570
37.900	145	163	0.0033029
37.910	152	158	0.0031919
37.920	181	155	0.0026570
37.930	158	152	0.0030524
37.940	162	149	0.0029861
37.950	160	147	0.0030190
37.960	166	146	0.0028905
37.970	141	145	0.0034199
37.980	193	144	0.0025000
37.990	149	143	0.0032283
38.000	102	143	0.0047562
38.010	160	143	0.0030190
38.020	122	144	0.0039555
38.030	116	145	0.0041623
38.040	135	147	0.0035856
38.050	162	149	0.0029861
38.060	164	152	0.0029537
38.070	162	156	0.0029861
38.080	174	160	0.0027701
38.090	180	163	0.0026846
38.100	195	165	0.0024752
38.110	166	165	0.0029218
38.120	195	162	0.0024752
38.130	197	157	0.0024507
38.140	174	153	0.0027701
38.150	184	148	0.0026298
38.160	153	145	0.0031562
38.170	143	142	0.0033802
38.180	126	140	0.0038104
38.190	141	138	0.0034199
38.200	172	137	0.0027995
38.210	168	135	0.0028905
38.220	149	135	0.0032283
38.230	128	134	0.0037638
38.240	128	133	0.0037638
38.250	147	133	0.0032653
38.260	147	133	0.0032653
38.270	124	132	0.0039063
38.280	139	132	0.0034602

38.290	147	132	0.0032653
38.300	108	132	0.0045043
38.310	129	133	0.0037638
38.320	174	133	0.0027701
38.330	153	133	0.0031562
38.340	112	134	0.0043283
38.350	139	135	0.0034602
38.360	126	136	0.0038104
38.370	158	138	0.0030524
38.380	114	140	0.0042166
38.390	122	142	0.0039555
38.400	172	145	0.0027995
38.410	156	149	0.0030864
38.420	174	153	0.0027701
38.430	149	156	0.0032283
38.440	187	158	0.0025767
38.450	151	158	0.0031919
38.460	170	155	0.0028293
38.470	145	151	0.0033029
38.480	176	147	0.0027412
38.490	122	144	0.0039555
38.500	118	141	0.0040570
38.510	141	140	0.0034199
38.520	168	138	0.0028597
38.530	145	137	0.0033029
38.540	131	137	0.0036731
38.550	139	137	0.0034602
38.560	139	138	0.0034602
38.570	160	139	0.0030190
38.580	131	140	0.0036731
38.590	143	143	0.0033412
38.600	118	146	0.0040570
38.610	160	151	0.0030190
38.620	145	157	0.0033029
38.630	181	163	0.0026570
38.640	197	167	0.0024267
38.650	150	168	0.0032283
38.660	154	164	0.0031210
38.670	139	158	0.0034602
38.680	141	152	0.0034199
38.690	108	146	0.0044444
38.700	141	142	0.0033802
38.710	131	139	0.0036731
38.720	133	136	0.0036290
38.730	129	134	0.0037180
38.740	167	133	0.0028905
38.750	137	132	0.0035013
38.760	154	131	0.0031210
38.770	148	131	0.0032653
38.780	135	130	0.0035431
38.790	123	130	0.0039063
38.800	158	130	0.0030524
38.810	119	130	0.0040570
38.820	160	130	0.0029861

38.830	156	130	0.0030864
38.840	158	130	0.0030190
38.850	144	130	0.0033412
38.860	117	131	0.0041091
38.870	165	131	0.0029218
38.880	117	131	0.0041091
38.890	179	132	0.0026846
38.900	123	133	0.0039063
38.910	148	133	0.0032283
38.920	144	134	0.0033412
38.930	140	135	0.0034199
38.940	163	136	0.0029537
38.950	129	138	0.0037180
38.960	152	139	0.0031562
38.970	152	140	0.0031562
38.980	150	141	0.0031919
38.990	127	142	0.0037638
39.000	154	144	0.0030864
39.010	184	146	0.0026031
39.020	152	148	0.0031562
39.030	163	151	0.0029537
39.040	163	155	0.0029537
39.050	148	160	0.0032283
39.060	150	166	0.0031919
39.070	169	174	0.0028293
39.080	201	183	0.0023795
39.090	209	192	0.0022893
39.100	205	200	0.0023338
39.110	207	205	0.0023114
39.120	203	206	0.0023565
39.130	180	205	0.0026570
39.140	188	202	0.0025252
39.150	161	200	0.0029537
39.160	189	198	0.0025252
39.170	197	196	0.0024267
39.180	172	193	0.0027701
39.190	203	189	0.0023565
39.200	151	185	0.0031562
39.210	147	182	0.0032653
39.220	191	180	0.0025000
39.230	189	180	0.0025252
39.240	164	182	0.0029218
39.250	206	185	0.0023114
39.260	195	192	0.0024507
39.270	191	201	0.0025000
39.280	218	213	0.0021836
39.290	195	228	0.0024507
39.300	225	241	0.0021236
39.310	231	249	0.0020661
39.320	235	250	0.0020291
39.330	258	246	0.0018420
39.340	225	239	0.0021236
39.350	227	235	0.0021042
39.360	222	236	0.0021433

39.370	235	242	0.0020291
39.380	237	254	0.0020109
39.390	241	272	0.0019753
39.400	262	299	0.0018108
39.410	353	335	0.0013516
39.420	355	382	0.0013418
39.430	430	436	0.0011037
39.440	496	480	0.0009645
39.450	592	495	0.0008071
39.460	430	469	0.0011037
39.470	430	423	0.0011037
39.480	414	378	0.0011491
39.490	363	343	0.0013127
39.500	328	316	0.0014568
39.510	321	294	0.0014793
39.520	290	273	0.0016391
39.530	275	255	0.0017361
39.540	225	238	0.0021236
39.550	231	225	0.0020661
39.560	250	214	0.0019069
39.570	229	206	0.0020850
39.580	237	201	0.0020109
39.590	235	198	0.0020291
39.600	185	199	0.0025767
39.610	250	201	0.0019069
39.620	199	205	0.0023795
39.630	199	209	0.0023795
39.640	235	210	0.0020291
39.650	212	206	0.0022461
39.660	166	200	0.0028597
39.670	204	194	0.0023338
39.680	223	189	0.0021433
39.690	176	187	0.0026846
39.700	187	188	0.0025508
39.710	187	193	0.0025508
39.720	233	202	0.0020475
39.730	168	218	0.0028293
39.740	263	242	0.0018108
39.750	210	276	0.0022676
39.760	286	316	0.0016660
39.770	332	348	0.0014348
39.780	343	350	0.0013923
39.790	242	320	0.0019753
39.800	252	278	0.0018904
39.810	235	241	0.0020291
39.820	225	215	0.0021236
39.830	204	198	0.0023338
39.840	221	186	0.0021633
39.850	195	179	0.0024267
39.860	166	175	0.0028597
39.870	143	173	0.0033412
39.880	172	173	0.0027701
39.890	158	175	0.0030190
39.900	177	177	0.0026846

39.910	235	182	0.0020291
39.920	212	187	0.0022461
39.930	208	192	0.0022893
39.940	225	197	0.0021236
39.950	244	202	0.0019579
39.960	275	204	0.0017217
39.970	202	205	0.0023565
39.980	280	205	0.0017075
39.990	208	205	0.0022893
40.000	229	206	0.0020850
40.010	208	208	0.0022893
40.020	187	212	0.0025508
40.030	214	218	0.0022250
40.040	193	226	0.0024507
40.050	246	236	0.0019407
40.060	292	247	0.0016259
40.070	261	256	0.0018263
40.080	313	262	0.0015140
40.090	334	263	0.0014240
40.100	307	259	0.0015500
40.110	250	251	0.0019069
40.120	250	240	0.0019069
40.130	246	228	0.0019407
40.140	214	216	0.0022250
40.150	170	206	0.0027995
40.160	214	196	0.0022250
40.170	174	188	0.0027412
40.180	137	180	0.0035013
40.190	183	173	0.0026031
40.200	145	167	0.0032653
40.210	151	162	0.0031562
40.220	145	159	0.0033029
40.230	139	156	0.0034199
40.240	168	154	0.0028293
40.250	179	152	0.0026570
40.260	185	151	0.0025767
40.270	126	151	0.0037638
40.280	172	152	0.0027701
40.290	141	153	0.0033802

#===END

data_As11

5. CHEMICAL DATA

_chemical_name_common	'calcium arsenic phosphorus hydroxylapatite'
_chemical_formula_structural	'Ca5 (P0.89 As0.11 O4)3 O H'
_chemical_formula_sum	'As0.33 Ca5 H O13 P2.67'
_chemical_formula_weight	516.8

loop_
_atom_type_symbol

```

_atom_type_description
_atom_type_scatter_dispersion_real
_atom_type_scatter_dispersion_imag
_atom_type_scatter_source
_atom_type_scatter_length_neutron    # include if applicable
?   ?   ?   ?   ?   ?

#=====

# 6. POWDER SPECIMEN AND CRYSTAL DATA

_space_group_crystal_system    hexagonal
_space_group_name_H-M_alt      'P63/m'

loop_
  _symmetry_equiv_pos_site_id
  _symmetry_equiv_pos_as_xyz    #<--must include 'x,y,z'
1 '-x, -y, -z'
2 '-x, -y, z+1/2'
3 '-x+y, -x, -z+1/2'
4 '-x+y, -x, z'
5 '-y, x-y, -z+1/2'
6 '-y, x-y, z'
7 'y, -x+y, -z'
8 'y, -x+y, z+1/2'
9 'x-y, x, -z'
10 'x-y, x, z+1/2'
11 'x, y, -z+1/2'
12 'x, y, z'

_cell_length_a 9.4655(3)
_cell_length_b 9.4655(3)
_cell_length_c 6.9068(2)
_cell_angle_alpha 90
_cell_angle_beta 90
_cell_angle_gamma 120
_cell_volume 535.91(3)
_cell_measurement_temperature 293
_cell_special_details
; ?
;

# The next three fields give the specimen dimensions in mm. The equatorial
# plane contains the incident and diffracted beam.

_pd_spec_size_axial      8    # perpendicular to
                           # equatorial plane

_pd_spec_size_equat      1    # parallel to
                           # scattering vector
                           # in transmission

_pd_spec_size_thick      1    # parallel to
                           # scattering vector

```

in reflection

The next five fields are character fields that describe the specimen.

```
_pd_spec_mounting      # This field should be
                        # used to give details of the
                        # container.
;
glass capillary(nominal diameter 1mm)
;
_pd_spec_mount_mode     transmission    # options are 'reflection'
                        # or 'transmission'

_pd_spec_shape          cylinder      # options are 'cylinder'
                        # 'flat_sheet' or 'irregular'

_pd_char_particle_morphology ?
_pd_char_colour         white        # use ICDD colour descriptions
```

The next four fields are normally only needed for transmission experiments.

```
_exptl_absorpt_correction_type none    # include if applicable
```

#=====

7. EXPERIMENTAL DATA

```
_exptl_special_details
; ?
;

_pd_instr_location
;
X16C, National Synchrotron Light Source, Brookhaven National Laboratory
;
_pd_calibration_special_details    # description of the method used
                                # to calibrate the instrument
;
NIST standard reference material 1976(sintered plate of Al2O3)
7 isolated reflections were used to calibrate wavelength and detector zero.
;

_diffrn_ambient_temperature      293
_diffrn_source                   synchrotron
_diffrn_source_target            ?
_diffrn_source_type              ?
_diffrn_radiation_type           synchrotron
_diffrn_measurement_device_type  'Huber diffractometer'
_diffrn_detector                 'NaI scintillation counter'
_diffrn_detector_type            ?    # make or model of detector

_pd_meas_scan_method            step  # options are 'step', 'cont',
                                # 'tof', 'fixed' or
                                # 'disp' (= dispersive)
```

```
_pd_meas_special_details
; ?
;
```

The following six items are used for angular dispersive measurements only.

```
_diffrn_radiation_wavelength    0.69850
_diffrn_radiation_monochromator  'Si(111) double reflection monochromator'
```

The following four items give details of the measured (not processed)
powder pattern. Angles are in degrees.

```
_pd_meas_number_of_points      4301
_pd_meas_2theta_range_min      2.00
_pd_meas_2theta_range_max      45.00
_pd_meas_2theta_range_inc      .01
```

```
#=====
```

8. REFINEMENT DATA

Use the next field to give any special details about the fitting of the
powder pattern.

```
_pd_proc_ls_special_details
;
Rietveld refinement of all structural parameters.
H atom omitted
One common thermal parameter for all atoms
;
```

The next three items are given as text.

```
_pd_proc_ls_profile_function
;
Simple_Axial_Model function in TOPAS
Anisotropic strain broadening 3 parameters refined
;
_pd_proc_ls_background_function
;
Chebyshev polynomial of 7th order plus 1/2theta
;
_pd_proc_ls_pref_orient_corr      'none'
```

```
_pd_proc_ls_prof_R_factor        0.03972
_pd_proc_ls_prof_wR_factor        0.05194
_pd_proc_ls_prof_wR_expected      0.02702
_refine_ls_R_I_factor             ?
_refine_ls_R_Fsqd_factor          ?
_refine_ls_R_factor_all           ?
```

```
_refine_special_details
; ?
```

;

```
_refine_ls_matrix_type      ?
_refine_ls_weighting_scheme sigma # options are 'sigma' (based on measured su's)
                             # or 'calc' (calculated weights)
_refine_ls_weighting_details '1/(sigma*sigma)'
_refine_ls_hydrogen_treatment none
_refine_ls_extinction_method 'none'
_refine_ls_extinction_coef   ?
_refine_ls_number_parameters 34
_refine_ls_number_restraints ?
_refine_ls_number_constraints ?
```

The following item is the same as CHI, the square root of 'CHI squared'

```
_refine_ls_goodness_of_fit_all 1.922
```

```
_refine_ls_restrained_S_all    ?
_refine_ls_shift/su_max        ?
_refine_ls_shift/su_mean       ?
```

The following four items apply to angular dispersive measurements.

2theta minimum, maximum and increment (in degrees) are for the

intensities used in the refinement.

```
_pd_proc_2theta_range_min    2.0
_pd_proc_2theta_range_max    45.0
_pd_proc_2theta_range_inc     0.01
_pd_proc_wavelength           0.69850
```

Each refinement must be accompanied by a listing of the powder data

in CIF format. Each listing should be sent as a separate file consisting

of one data block containing a single powder profile. The value of

_pd_block_diffraction_id is used to associate each refinement with

its corresponding powder profile, since it must match the value

of _pd_block_id in the file containing the powder data. A template

for supplying powder data in CIF format is available by ftp at

<ftp://ftp.iucr.org/pub/rietdataform.cif> and an example is given

at <ftp://ftp.iucr.org/pub/rietdataxml.cif>.

```
_pd_block_diffraction_id     HAP_As11_profile
```

Give appropriate details in the next two text fields.

```
_pd_proc_info_excluded_regions 'none'
_pd_proc_info_data_reduction    ?
```

The following items are used to identify the programs used.

```
_computing_data_collection    SPEC
_computing_cell_refinement     TOPAS
_computing_data_reduction      ?
_computing_structure_solution  ?
_computing_structure_refinement TOPAS
```

_computing_molecular_graphics ?
_computing_publication_material ?

#=====

9. ATOMIC COORDINATES AND DISPLACEMENT PARAMETERS

loop_
_atom_site_label
_atom_site_type_symbol
_atom_site_symmetry_multiplicity
_atom_site_fract_x
_atom_site_fract_y
_atom_site_fract_z
_atom_site_occupancy
_atom_site_B_iso_or_equiv
O1 O 6 0.32514(45) 0.48279(48) 0.25 1 0.744(16)
O2 O 6 0.58587(47) 0.46366(51) 0.25 1 0.744(16)
O3 O 12 0.34162(32) 0.25584(37) 0.06850(36) 1 0.744(16)
As1 As 6 0.39655(19) 0.36850(18) 0.25 0.1101(25) 0.744(16)
P1 P 6 0.39655(19) 0.36850(18) 0.25 0.8899(25) 0.744(16)
Ca1 Ca 4 0.3333333 0.6666667 0.00130(32) 1 0.744(16)
Ca2 Ca 6 0.24660(19) 0.99367(22) 0.25 1 0.744(16)
O4 O 4 0 0 0.6939(10) 0.5 0.744(16)

CIF submission form for powder diffraction data (IUCr journals) ###
Version 11 February 2005 ###
#####

This is an electronic "form" for submitting powder diffraction data in CIF
format to an IUCr journal. The data for each powder profile should be sent
as a separate file consisting of one data block. The value of _pd_block_id
is used to associate each powder profile with a Rietveld refinement, since
it must match the value of _pd_block_diffraction_id in the CIF used to
report the results of the refinement. The current version of the powder
CIF dictionary, which contains definitions of the terms starting _pd_,
may be obtained from <http://www.iucr.org/iucr-top/cif/pd/index.html>.
Note that the query marks '?' are significant as placeholders, and should
not be deleted where a data item is not given, UNLESS the accompanying data
name is also deleted. Lines should not exceed 80 characters in length. The
comments following a hash symbol '#' may be deleted if wished.

data_HAP_As11_pattern

_pd_block_id HAP_As11_pattern

loop_

	_pd_proc_2theta_corrected	_pd_proc_intensity_net	_pd_calc_intensity_net	_pd_proc_ls_weight
2.000	753	680	0.0024029	
2.010	753	675	0.0024029	
2.020	721	671	0.0025000	
2.030	708	666	0.0025508	
2.040	739	661	0.0024507	
2.050	731	657	0.0024752	
2.060	704	653	0.0025767	
2.070	699	648	0.0025767	
2.080	690	644	0.0026298	
2.090	677	640	0.0026570	
2.100	690	635	0.0026298	
2.110	706	631	0.0025508	
2.120	690	627	0.0026298	
2.130	661	623	0.0027412	
2.140	695	619	0.0026031	
2.150	657	615	0.0027412	
2.160	678	611	0.0026570	
2.170	638	607	0.0028293	
2.180	623	603	0.0028905	
2.190	620	599	0.0029218	
2.200	629	595	0.0028597	
2.210	642	591	0.0028293	
2.220	639	588	0.0028293	
2.230	634	584	0.0028597	
2.240	631	580	0.0028597	
2.250	594	577	0.0030524	
2.260	593	573	0.0030524	
2.270	590	569	0.0030524	
2.280	561	566	0.0032283	
2.290	604	562	0.0029861	
2.300	579	559	0.0031210	
2.310	578	556	0.0031210	
2.320	563	552	0.0031919	
2.330	542	549	0.0033412	
2.340	548	545	0.0033029	
2.350	548	542	0.0033029	
2.360	558	539	0.0032283	
2.370	541	536	0.0033412	
2.380	522	533	0.0034602	
2.390	504	529	0.0035856	
2.400	508	526	0.0035431	
2.410	547	523	0.0033029	
2.420	541	520	0.0033412	
2.430	491	517	0.0036731	
2.440	528	514	0.0034199	
2.450	511	511	0.0035431	
2.460	542	508	0.0033412	
2.470	516	505	0.0035013	
2.480	499	502	0.0036290	
2.490	498	499	0.0036290	

2.500	488	497	0.0037180
2.510	497	494	0.0036290
2.520	489	491	0.0036731
2.530	482	488	0.0037638
2.540	495	486	0.0036731
2.550	505	483	0.0035856
2.560	489	480	0.0037180
2.570	438	478	0.0041091
2.580	447	475	0.0040570
2.590	438	472	0.0041091
2.600	466	470	0.0038579
2.610	484	467	0.0037180
2.620	472	465	0.0038104
2.630	484	462	0.0037180
2.640	455	460	0.0039555
2.650	442	457	0.0041091
2.660	443	455	0.0040570
2.670	452	452	0.0040058
2.680	416	450	0.0043283
2.690	459	448	0.0039555
2.700	464	445	0.0039063
2.710	410	443	0.0043858
2.720	412	441	0.0043858
2.730	424	438	0.0042719
2.740	420	436	0.0043283
2.750	428	434	0.0042166
2.760	428	431	0.0042166
2.770	431	429	0.0042166
2.780	410	427	0.0043858
2.790	416	425	0.0043283
2.800	407	423	0.0044444
2.810	415	421	0.0043858
2.820	413	419	0.0043858
2.830	410	416	0.0043858
2.840	414	414	0.0043858
2.850	396	412	0.0045654
2.860	405	410	0.0044444
2.870	406	408	0.0044444
2.880	384	406	0.0046913
2.890	380	404	0.0047562
2.900	368	402	0.0048902
2.910	398	400	0.0045654
2.920	380	398	0.0047562
2.930	391	396	0.0046277
2.940	397	395	0.0045654
2.950	420	393	0.0043283
2.960	388	391	0.0046277
2.970	391	389	0.0046277
2.980	374	387	0.0048225
2.990	384	385	0.0046913
3.000	369	383	0.0048902
3.010	364	382	0.0049593
3.020	383	380	0.0046913
3.030	375	378	0.0048225

3.040	360	376	0.0050299
3.050	346	375	0.0052510
3.060	335	373	0.0054066
3.070	348	371	0.0051757
3.080	363	370	0.0049593
3.090	352	368	0.0051757
3.100	360	366	0.0050299
3.110	337	365	0.0053279
3.120	358	363	0.0050299
3.130	340	361	0.0053279
3.140	330	360	0.0054870
3.150	342	358	0.0052510
3.160	323	357	0.0055692
3.170	343	355	0.0052510
3.180	327	353	0.0054870
3.190	363	352	0.0049593
3.200	329	350	0.0054870
3.210	318	349	0.0056532
3.220	358	347	0.0050299
3.230	347	346	0.0051757
3.240	350	344	0.0051757
3.250	321	343	0.0056532
3.260	344	341	0.0052510
3.270	339	340	0.0053279
3.280	332	339	0.0054066
3.290	316	337	0.0057392
3.300	319	336	0.0056532
3.310	306	334	0.0059172
3.320	311	333	0.0058272
3.330	318	332	0.0056532
3.340	331	330	0.0054870
3.350	332	329	0.0054066
3.360	336	328	0.0054066
3.370	316	326	0.0057392
3.380	320	325	0.0056532
3.390	317	324	0.0056532
3.400	304	322	0.0059172
3.410	302	321	0.0060093
3.420	305	320	0.0059172
3.430	311	319	0.0058272
3.440	292	317	0.0062000
3.450	296	316	0.0061035
3.460	291	315	0.0062000
3.470	302	314	0.0060093
3.480	276	312	0.0065036
3.490	305	311	0.0059172
3.500	312	310	0.0058272
3.510	282	309	0.0064000
3.520	289	308	0.0062988
3.530	301	306	0.0060093
3.540	289	305	0.0062000
3.550	275	304	0.0066098
3.560	295	303	0.0061035
3.570	299	302	0.0060093

3.580	292	301	0.0062000
3.590	287	300	0.0062988
3.600	311	299	0.0058272
3.610	305	298	0.0059172
3.620	288	296	0.0062988
3.630	277	295	0.0065036
3.640	285	294	0.0062988
3.650	293	293	0.0062000
3.660	282	292	0.0064000
3.670	300	291	0.0060093
3.680	308	290	0.0058272
3.690	282	289	0.0064000
3.700	304	288	0.0059172
3.710	305	287	0.0059172
3.720	301	286	0.0060093
3.730	264	285	0.0068301
3.740	301	284	0.0060093
3.750	284	284	0.0064000
3.760	304	283	0.0059172
3.770	285	282	0.0062988
3.780	278	281	0.0065036
3.790	300	280	0.0060093
3.800	285	279	0.0062988
3.810	291	279	0.0062000
3.820	268	278	0.0067186
3.830	278	277	0.0065036
3.840	280	276	0.0064000
3.850	274	275	0.0066098
3.860	258	274	0.0069444
3.870	273	273	0.0066098
3.880	291	272	0.0062000
3.890	275	272	0.0065036
3.900	255	271	0.0070616
3.910	268	270	0.0067186
3.920	260	269	0.0069444
3.930	261	268	0.0068301
3.940	266	268	0.0067186
3.950	278	267	0.0065036
3.960	253	266	0.0070616
3.970	266	265	0.0067186
3.980	286	264	0.0062988
3.990	267	264	0.0067186
4.000	264	263	0.0068301
4.010	264	262	0.0068301
4.020	278	261	0.0064000
4.030	258	261	0.0069444
4.040	268	260	0.0067186
4.050	269	259	0.0066098
4.060	233	259	0.0076947
4.070	260	258	0.0069444
4.080	248	257	0.0071818
4.090	251	256	0.0071818
4.100	236	256	0.0075614
4.110	250	255	0.0071818

4.120	255	254	0.0070616
4.130	243	254	0.0073051
4.140	248	253	0.0071818
4.150	225	253	0.0079719
4.160	266	252	0.0067186
4.170	233	251	0.0076947
4.180	240	251	0.0074316
4.190	246	250	0.0073051
4.200	254	250	0.0070616
4.210	253	249	0.0070616
4.220	250	249	0.0071818
4.230	266	248	0.0067186
4.240	246	247	0.0073051
4.250	250	247	0.0071818
4.260	251	246	0.0071818
4.270	254	246	0.0070616
4.280	250	245	0.0071818
4.290	264	245	0.0067186
4.300	248	245	0.0071818
4.310	245	244	0.0073051
4.320	270	244	0.0066098
4.330	248	243	0.0071818
4.340	235	243	0.0075614
4.350	278	243	0.0064000
4.360	252	242	0.0070616
4.370	241	242	0.0074316
4.380	241	242	0.0074316
4.390	246	242	0.0073051
4.400	244	241	0.0073051
4.410	231	241	0.0076947
4.420	247	241	0.0071818
4.430	248	241	0.0071818
4.440	234	241	0.0075614
4.450	244	241	0.0073051
4.460	254	241	0.0069444
4.470	230	241	0.0076947
4.480	246	242	0.0073051
4.490	241	242	0.0074316
4.500	242	243	0.0073051
4.510	273	243	0.0065036
4.520	243	244	0.0073051
4.530	265	245	0.0067186
4.540	260	247	0.0068301
4.550	277	249	0.0064000
4.560	256	252	0.0069444
4.570	262	255	0.0068301
4.580	249	259	0.0071818
4.590	283	264	0.0062988
4.600	282	269	0.0062988
4.610	274	275	0.0065036
4.620	304	282	0.0058272
4.630	311	290	0.0057392
4.640	307	298	0.0058272
4.650	312	307	0.0056532

4.660	315	317	0.0056532
4.670	352	327	0.0050299
4.680	340	339	0.0052510
4.690	356	351	0.0049593
4.700	365	364	0.0048225
4.710	381	379	0.0046277
4.720	420	395	0.0042166
4.730	407	413	0.0043858
4.740	435	433	0.0040570
4.750	442	455	0.0040058
4.760	446	479	0.0039555
4.770	523	507	0.0033802
4.780	508	538	0.0035013
4.790	578	573	0.0030524
4.800	596	613	0.0029861
4.810	606	658	0.0029218
4.820	687	709	0.0025767
4.830	640	763	0.0027701
4.840	676	817	0.0026298
4.850	668	857	0.0026570
4.860	670	862	0.0026298
4.870	638	812	0.0027701
4.880	583	715	0.0030190
4.890	533	606	0.0033029
4.900	464	513	0.0038104
4.910	396	442	0.0044444
4.920	381	390	0.0046277
4.930	360	353	0.0048902
4.940	301	325	0.0058272
4.950	297	305	0.0059172
4.960	279	289	0.0062988
4.970	269	277	0.0066098
4.980	255	267	0.0069444
4.990	246	259	0.0071818
5.000	256	252	0.0069444
5.010	224	247	0.0078315
5.020	254	242	0.0069444
5.030	236	238	0.0074316
5.040	214	235	0.0082645
5.050	235	232	0.0074316
5.060	231	229	0.0076947
5.070	218	227	0.0081162
5.080	228	225	0.0076947
5.090	229	223	0.0076947
5.100	228	221	0.0076947
5.110	240	219	0.0073051
5.120	204	218	0.0085734
5.130	224	217	0.0078315
5.140	210	216	0.0084168
5.150	220	215	0.0079719
5.160	197	214	0.0089000
5.170	211	213	0.0084168
5.180	194	212	0.0090703
5.190	210	211	0.0084168

5.200	199	210	0.0089000
5.210	210	209	0.0084168
5.220	220	209	0.0079719
5.230	172	208	0.0102030
5.240	218	207	0.0081162
5.250	203	207	0.0087344
5.260	214	206	0.0082645
5.270	194	206	0.0090703
5.280	203	205	0.0087344
5.290	218	205	0.0081162
5.300	206	204	0.0085734
5.310	198	204	0.0089000
5.320	193	203	0.0090703
5.330	211	203	0.0082645
5.340	205	202	0.0085734
5.350	184	202	0.0096117
5.360	197	202	0.0089000
5.370	210	201	0.0084168
5.380	215	201	0.0081162
5.390	195	200	0.0090703
5.400	199	200	0.0087344
5.410	194	200	0.0090703
5.420	214	199	0.0081162
5.430	194	199	0.0090703
5.440	200	199	0.0087344
5.450	196	199	0.0089000
5.460	192	198	0.0090703
5.470	214	198	0.0082645
5.480	208	198	0.0084168
5.490	206	197	0.0084168
5.500	217	197	0.0081162
5.510	202	197	0.0087344
5.520	191	197	0.0092456
5.530	192	196	0.0090703
5.540	197	196	0.0089000
5.550	203	196	0.0087344
5.560	188	196	0.0094260
5.570	195	195	0.0089000
5.580	193	195	0.0090703
5.590	189	195	0.0092456
5.600	187	195	0.0094260
5.610	184	195	0.0096117
5.620	186	194	0.0094260
5.630	183	194	0.0096117
5.640	207	194	0.0084168
5.650	192	194	0.0090703
5.660	199	194	0.0089000
5.670	193	193	0.0090703
5.680	195	193	0.0089000
5.690	190	193	0.0092456
5.700	185	193	0.0094260
5.710	206	193	0.0085734
5.720	165	192	0.0106281
5.730	196	192	0.0089000

5.740	181	192	0.0096117
5.750	184	192	0.0096117
5.760	193	192	0.0090703
5.770	172	192	0.0102030
5.780	190	192	0.0092456
5.790	200	191	0.0087344
5.800	200	191	0.0087344
5.810	179	191	0.0098030
5.820	205	191	0.0085734
5.830	189	191	0.0092456
5.840	161	191	0.0108507
5.850	188	190	0.0092456
5.860	198	190	0.0089000
5.870	201	190	0.0087344
5.880	194	190	0.0090703
5.890	216	190	0.0081162
5.900	193	190	0.0090703
5.910	190	190	0.0092456
5.920	197	189	0.0089000
5.930	210	189	0.0084168
5.940	195	189	0.0090703
5.950	196	189	0.0089000
5.960	184	189	0.0096117
5.970	201	188	0.0087344
5.980	201	188	0.0087344
5.990	180	188	0.0098030
6.000	211	188	0.0082645
6.010	196	188	0.0089000
6.020	170	188	0.0102030
6.030	202	188	0.0087344
6.040	181	188	0.0098030
6.050	190	188	0.0092456
6.060	173	188	0.0102030
6.070	189	188	0.0092456
6.080	190	188	0.0092456
6.090	198	188	0.0089000
6.100	165	188	0.0106281
6.110	188	188	0.0092456
6.120	180	188	0.0098030
6.130	197	187	0.0089000
6.140	189	187	0.0092456
6.150	203	187	0.0085734
6.160	182	187	0.0096117
6.170	191	187	0.0092456
6.180	173	187	0.0102030
6.190	194	187	0.0090703
6.200	174	187	0.0102030
6.210	198	187	0.0089000
6.220	202	187	0.0087344
6.230	195	187	0.0090703
6.240	187	187	0.0094260
6.250	187	187	0.0094260
6.260	176	187	0.0100000
6.270	182	187	0.0096117

6.280	198	187	0.0089000
6.290	178	187	0.0098030
6.300	215	187	0.0081162
6.310	198	187	0.0089000
6.320	212	187	0.0082645
6.330	202	187	0.0087344
6.340	186	187	0.0094260
6.350	183	187	0.0096117
6.360	203	187	0.0087344
6.370	198	187	0.0089000
6.380	189	187	0.0092456
6.390	184	187	0.0096117
6.400	199	187	0.0089000
6.410	184	187	0.0096117
6.420	190	187	0.0092456
6.430	180	187	0.0098030
6.440	192	187	0.0090703
6.450	213	187	0.0082645
6.460	194	187	0.0090703
6.470	186	187	0.0094260
6.480	176	187	0.0100000
6.490	195	187	0.0090703
6.500	178	187	0.0098030
6.510	201	187	0.0087344
6.520	189	187	0.0092456
6.530	190	187	0.0092456
6.540	211	187	0.0082645
6.550	189	188	0.0092456
6.560	182	188	0.0096117
6.570	174	188	0.0102030
6.580	187	188	0.0094260
6.590	191	188	0.0092456
6.600	189	188	0.0092456
6.610	206	188	0.0085734
6.620	214	188	0.0081162
6.630	208	188	0.0084168
6.640	201	188	0.0087344
6.650	203	188	0.0085734
6.660	197	188	0.0089000
6.670	196	188	0.0089000
6.680	205	188	0.0085734
6.690	187	189	0.0094260
6.700	197	189	0.0089000
6.710	183	189	0.0096117
6.720	187	189	0.0094260
6.730	158	189	0.0110803
6.740	191	189	0.0092456
6.750	197	189	0.0089000
6.760	198	189	0.0089000
6.770	186	189	0.0094260
6.780	200	189	0.0087344
6.790	196	189	0.0089000
6.800	197	189	0.0089000
6.810	170	190	0.0102030

6.820	185	190	0.0094260
6.830	189	190	0.0092456
6.840	197	190	0.0089000
6.850	188	190	0.0092456
6.860	218	190	0.0079719
6.870	178	190	0.0098030
6.880	195	190	0.0089000
6.890	203	190	0.0085734
6.900	194	191	0.0090703
6.910	201	191	0.0087344
6.920	199	191	0.0087344
6.930	177	191	0.0098030
6.940	201	191	0.0087344
6.950	188	191	0.0092456
6.960	205	191	0.0084168
6.970	183	191	0.0096117
6.980	204	192	0.0085734
6.990	202	192	0.0085734
7.000	190	192	0.0090703
7.010	215	192	0.0081162
7.020	221	192	0.0078315
7.030	186	192	0.0094260
7.040	212	193	0.0082645
7.050	198	193	0.0087344
7.060	211	193	0.0082645
7.070	206	193	0.0084168
7.080	213	193	0.0081162
7.090	211	193	0.0082645
7.100	209	194	0.0082645
7.110	195	194	0.0089000
7.120	195	194	0.0089000
7.130	193	194	0.0089000
7.140	193	195	0.0090703
7.150	204	195	0.0084168
7.160	202	195	0.0085734
7.170	207	195	0.0084168
7.180	197	196	0.0087344
7.190	200	196	0.0087344
7.200	183	196	0.0094260
7.210	219	197	0.0079719
7.220	203	197	0.0085734
7.230	239	197	0.0073051
7.240	211	198	0.0082645
7.250	213	198	0.0081162
7.260	203	199	0.0085734
7.270	210	199	0.0082645
7.280	213	200	0.0081162
7.290	203	200	0.0085734
7.300	205	201	0.0084168
7.310	201	202	0.0085734
7.320	212	203	0.0081162
7.330	209	204	0.0082645
7.340	211	205	0.0081162
7.350	211	206	0.0081162

7.360	221	208	0.0078315
7.370	212	210	0.0081162
7.380	230	213	0.0075614
7.390	215	217	0.0079719
7.400	218	221	0.0079719
7.410	216	226	0.0079719
7.420	224	231	0.0076947
7.430	243	237	0.0070616
7.440	264	244	0.0065036
7.450	252	252	0.0068301
7.460	263	260	0.0066098
7.470	256	270	0.0067186
7.480	268	282	0.0064000
7.490	310	294	0.0055692
7.500	307	309	0.0056532
7.510	296	326	0.0058272
7.520	332	346	0.0051757
7.530	363	369	0.0047562
7.540	401	392	0.0043283
7.550	414	411	0.0041623
7.560	386	417	0.0044444
7.570	372	398	0.0046277
7.580	324	360	0.0053279
7.590	317	320	0.0054066
7.600	293	289	0.0059172
7.610	238	266	0.0071818
7.620	226	251	0.0076947
7.630	254	240	0.0068301
7.640	233	233	0.0074316
7.650	230	228	0.0074316
7.660	239	224	0.0071818
7.670	236	220	0.0073051
7.680	224	218	0.0076947
7.690	208	216	0.0082645
7.700	222	215	0.0078315
7.710	210	214	0.0082645
7.720	222	213	0.0078315
7.730	237	212	0.0073051
7.740	227	212	0.0075614
7.750	222	211	0.0076947
7.760	202	211	0.0085734
7.770	222	210	0.0078315
7.780	215	210	0.0079719
7.790	214	210	0.0081162
7.800	244	210	0.0070616
7.810	222	210	0.0076947
7.820	238	210	0.0073051
7.830	191	210	0.0090703
7.840	234	210	0.0073051
7.850	210	210	0.0082645
7.860	220	210	0.0078315
7.870	216	210	0.0079719
7.880	217	210	0.0079719
7.890	202	211	0.0085734

7.900	218	211	0.0078315
7.910	214	211	0.0081162
7.920	214	211	0.0079719
7.930	217	211	0.0079719
7.940	245	212	0.0070616
7.950	209	212	0.0082645
7.960	206	212	0.0084168
7.970	205	212	0.0084168
7.980	223	213	0.0076947
7.990	207	213	0.0082645
8.000	228	213	0.0075614
8.010	220	213	0.0078315
8.020	239	214	0.0071818
8.030	223	214	0.0076947
8.040	198	214	0.0087344
8.050	228	215	0.0075614
8.060	217	215	0.0079719
8.070	234	216	0.0073051
8.080	218	216	0.0078315
8.090	220	217	0.0078315
8.100	245	217	0.0070616
8.110	212	217	0.0081162
8.120	228	218	0.0075614
8.130	234	219	0.0073051
8.140	229	219	0.0075614
8.150	206	220	0.0082645
8.160	224	221	0.0076947
8.170	222	221	0.0076947
8.180	207	222	0.0082645
8.190	231	223	0.0074316
8.200	234	224	0.0073051
8.210	242	225	0.0070616
8.220	244	227	0.0070616
8.230	238	228	0.0071818
8.240	241	230	0.0071818
8.250	212	232	0.0081162
8.260	247	235	0.0069444
8.270	242	238	0.0070616
8.280	217	242	0.0079719
8.290	247	246	0.0069444
8.300	251	251	0.0068301
8.310	240	257	0.0071818
8.320	241	264	0.0071818
8.330	259	272	0.0066098
8.340	261	281	0.0066098
8.350	260	291	0.0066098
8.360	268	303	0.0064000
8.370	293	315	0.0059172
8.380	310	330	0.0055692
8.390	303	345	0.0056532
8.400	318	363	0.0054066
8.410	326	381	0.0052510
8.420	332	398	0.0051757
8.430	338	411	0.0051020

8.440	339	414	0.0051020
8.450	347	403	0.0049593
8.460	323	380	0.0053279
8.470	326	351	0.0052510
8.480	305	325	0.0056532
8.490	279	304	0.0062000
8.500	266	288	0.0065036
8.510	250	276	0.0068301
8.520	266	266	0.0065036
8.530	254	260	0.0067186
8.540	270	254	0.0064000
8.550	238	250	0.0071818
8.560	256	247	0.0067186
8.570	240	245	0.0071818
8.580	256	243	0.0067186
8.590	248	241	0.0069444
8.600	246	240	0.0069444
8.610	248	239	0.0069444
8.620	234	238	0.0073051
8.630	235	238	0.0073051
8.640	256	237	0.0067186
8.650	229	237	0.0075614
8.660	228	236	0.0075614
8.670	284	236	0.0061035
8.680	256	236	0.0067186
8.690	229	236	0.0075614
8.700	252	236	0.0068301
8.710	232	236	0.0074316
8.720	237	236	0.0073051
8.730	259	236	0.0066098
8.740	259	236	0.0066098
8.750	220	236	0.0078315
8.760	245	236	0.0070616
8.770	253	236	0.0068301
8.780	263	237	0.0065036
8.790	237	237	0.0073051
8.800	252	237	0.0068301
8.810	255	237	0.0067186
8.820	264	237	0.0065036
8.830	251	238	0.0068301
8.840	227	238	0.0075614
8.850	255	238	0.0067186
8.860	254	238	0.0067186
8.870	226	239	0.0075614
8.880	258	239	0.0067186
8.890	261	239	0.0066098
8.900	249	239	0.0069444
8.910	235	240	0.0073051
8.920	232	240	0.0074316
8.930	243	240	0.0070616
8.940	250	241	0.0068301
8.950	257	241	0.0067186
8.960	260	241	0.0066098
8.970	255	242	0.0067186

8.980	265	242	0.0065036
8.990	271	242	0.0062988
9.000	248	243	0.0069444
9.010	271	243	0.0062988
9.020	244	243	0.0070616
9.030	236	244	0.0073051
9.040	269	244	0.0064000
9.050	262	245	0.0065036
9.060	264	245	0.0065036
9.070	264	246	0.0065036
9.080	289	246	0.0059172
9.090	240	247	0.0071818
9.100	257	247	0.0067186
9.110	268	247	0.0064000
9.120	254	248	0.0067186
9.130	257	248	0.0067186
9.140	252	249	0.0068301
9.150	263	249	0.0065036
9.160	261	249	0.0065036
9.170	248	250	0.0069444
9.180	248	250	0.0069444
9.190	283	251	0.0060093
9.200	261	251	0.0066098
9.210	274	251	0.0062988
9.220	268	252	0.0064000
9.230	262	252	0.0065036
9.240	263	253	0.0065036
9.250	252	253	0.0068301
9.260	243	254	0.0070616
9.270	261	254	0.0065036
9.280	244	255	0.0070616
9.290	250	255	0.0068301
9.300	261	256	0.0066098
9.310	261	256	0.0066098
9.320	256	257	0.0067186
9.330	270	257	0.0062988
9.340	273	258	0.0062988
9.350	262	258	0.0065036
9.360	278	259	0.0062000
9.370	260	260	0.0066098
9.380	277	260	0.0062000
9.390	279	261	0.0061035
9.400	274	261	0.0062000
9.410	281	262	0.0061035
9.420	268	263	0.0064000
9.430	263	264	0.0065036
9.440	256	264	0.0067186
9.450	277	265	0.0062000
9.460	286	266	0.0060093
9.470	268	267	0.0064000
9.480	266	268	0.0064000
9.490	291	269	0.0059172
9.500	269	270	0.0062988
9.510	279	272	0.0061035

9.520	278	273	0.0061035
9.530	293	275	0.0058272
9.540	287	277	0.0059172
9.550	276	279	0.0062000
9.560	300	281	0.0056532
9.570	279	284	0.0061035
9.580	293	287	0.0058272
9.590	290	291	0.0059172
9.600	272	296	0.0062988
9.610	309	301	0.0054870
9.620	281	308	0.0061035
9.630	336	317	0.0051020
9.640	340	326	0.0050299
9.650	308	338	0.0055692
9.660	340	351	0.0050299
9.670	350	365	0.0048902
9.680	350	382	0.0048902
9.690	373	401	0.0045654
9.700	386	422	0.0044444
9.710	405	444	0.0042166
9.720	429	468	0.0039555
9.730	442	491	0.0038579
9.740	420	509	0.0040570
9.750	470	517	0.0036290
9.760	465	508	0.0036731
9.770	428	484	0.0039555
9.780	417	450	0.0040570
9.790	398	417	0.0042719
9.800	390	388	0.0043858
9.810	369	366	0.0046277
9.820	338	349	0.0050299
9.830	354	336	0.0048225
9.840	348	327	0.0048902
9.850	345	319	0.0048902
9.860	343	314	0.0049593
9.870	329	310	0.0051757
9.880	308	307	0.0054870
9.890	308	304	0.0054870
9.900	314	302	0.0054066
9.910	310	301	0.0054870
9.920	301	300	0.0056532
9.930	295	300	0.0057392
9.940	326	299	0.0051757
9.950	325	299	0.0052510
9.960	321	300	0.0052510
9.970	305	300	0.0055692
9.980	336	301	0.0050299
9.990	320	302	0.0053279
10.000	303	303	0.0152416
10.010	306	305	0.0094260
10.020	299	307	0.0096117
10.030	314	309	0.0092456
10.040	326	312	0.0089000
10.050	338	316	0.0085734

10.060	327	320	0.0089000
10.070	332	325	0.0087344
10.080	320	331	0.0090703
10.090	368	340	0.0078315
10.100	355	350	0.0081162
10.110	353	363	0.0081162
10.120	387	379	0.0074316
10.130	394	398	0.0073051
10.140	422	422	0.0068301
10.150	440	449	0.0065036
10.160	469	480	0.0061035
10.170	512	516	0.0056532
10.180	535	557	0.0054066
10.190	575	604	0.0050299
10.200	657	656	0.0043858
10.210	705	713	0.0040570
10.220	760	770	0.0037638
10.230	783	816	0.0036731
10.240	796	834	0.0036290
10.250	794	806	0.0036290
10.260	725	737	0.0039555
10.270	661	650	0.0043283
10.280	596	570	0.0048225
10.290	517	506	0.0055692
10.300	498	459	0.0057392
10.310	474	424	0.0060093
10.320	426	398	0.0067186
10.330	398	379	0.0071818
10.340	390	365	0.0073051
10.350	380	353	0.0075614
10.360	388	345	0.0074316
10.370	350	338	0.0081162
10.380	347	332	0.0082645
10.390	354	327	0.0081162
10.400	345	324	0.0082645
10.410	327	320	0.0087344
10.420	346	318	0.0082645
10.430	309	316	0.0092456
10.440	313	314	0.0090703
10.450	314	312	0.0090703
10.460	326	311	0.0087344
10.470	313	310	0.0090703
10.480	311	309	0.0092456
10.490	306	308	0.0094260
10.500	320	307	0.0089000
10.510	338	307	0.0084168
10.520	310	306	0.0092456
10.530	314	306	0.0090703
10.540	293	305	0.0098030
10.550	338	305	0.0084168
10.560	328	305	0.0087344
10.570	304	305	0.0094260
10.580	307	304	0.0092456
10.590	308	304	0.0092456

10.600	320	304	0.0089000
10.610	313	305	0.0090703
10.620	317	305	0.0090703
10.630	297	305	0.0096117
10.640	324	306	0.0089000
10.650	310	307	0.0092456
10.660	309	307	0.0092456
10.670	301	307	0.0094260
10.680	296	307	0.0096117
10.690	301	307	0.0094260
10.700	317	308	0.0090703
10.710	308	308	0.0092456
10.720	314	308	0.0090703
10.730	311	308	0.0092456
10.740	303	308	0.0094260
10.750	306	309	0.0094260
10.760	313	309	0.0090703
10.770	315	309	0.0090703
10.780	287	309	0.0100000
10.790	304	310	0.0094260
10.800	314	310	0.0090703
10.810	295	310	0.0096117
10.820	308	310	0.0092456
10.830	302	311	0.0094260
10.840	311	311	0.0092456
10.850	306	311	0.0094260
10.860	314	312	0.0090703
10.870	304	312	0.0094260
10.880	311	312	0.0092456
10.890	328	313	0.0087344
10.900	311	313	0.0092456
10.910	297	313	0.0096117
10.920	313	314	0.0090703
10.930	317	314	0.0090703
10.940	325	315	0.0087344
10.950	313	315	0.0090703
10.960	313	316	0.0090703
10.970	326	316	0.0087344
10.980	311	316	0.0092456
10.990	321	317	0.0089000
11.000	316	317	0.0090703
11.010	307	318	0.0092456
11.020	315	319	0.0090703
11.030	329	319	0.0087344
11.040	308	320	0.0092456
11.050	309	320	0.0092456
11.060	313	321	0.0090703
11.070	318	322	0.0090703
11.080	330	323	0.0087344
11.090	332	323	0.0085734
11.100	339	324	0.0084168
11.110	345	325	0.0082645
11.120	307	326	0.0092456
11.130	314	328	0.0090703

11.140	335	329	0.0085734
11.150	344	330	0.0082645
11.160	334	332	0.0085734
11.170	321	334	0.0089000
11.180	330	336	0.0085734
11.190	339	338	0.0084168
11.200	329	340	0.0087344
11.210	333	344	0.0085734
11.220	331	347	0.0085734
11.230	342	352	0.0082645
11.240	354	357	0.0081162
11.250	357	363	0.0079719
11.260	358	371	0.0079719
11.270	391	379	0.0073051
11.280	401	389	0.0070616
11.290	375	400	0.0075614
11.300	392	412	0.0073051
11.310	421	426	0.0067186
11.320	432	441	0.0066098
11.330	434	455	0.0066098
11.340	439	468	0.0065036
11.350	461	474	0.0062000
11.360	452	473	0.0062988
11.370	448	466	0.0064000
11.380	430	457	0.0066098
11.390	437	451	0.0065036
11.400	409	449	0.0069444
11.410	415	453	0.0068301
11.420	376	461	0.0075614
11.430	382	476	0.0074316
11.440	412	497	0.0069444
11.450	423	527	0.0067186
11.460	427	567	0.0066098
11.470	474	622	0.0060093
11.480	516	694	0.0054870
11.490	589	786	0.0048225
11.500	720	897	0.0039555
11.510	843	1031	0.0033802
11.520	1057	1189	0.0026846
11.530	1270	1377	0.0022250
11.540	1567	1597	0.0018108
11.550	1898	1854	0.0014907
11.560	2412	2143	0.0011728
11.570	3018	2438	0.0009352
11.580	3610	2658	0.0007846
11.590	3701	2661	0.0007631
11.600	2894	2362	0.0009766
11.610	1976	1900	0.0014348
11.620	1343	1475	0.0021042
11.630	1049	1162	0.0026846
11.640	811	946	0.0035013
11.650	678	798	0.0041623
11.660	617	694	0.0045654
11.670	525	620	0.0054066

11.680	472	565	0.0060093
11.690	470	524	0.0060093
11.700	443	492	0.0064000
11.710	424	467	0.0066098
11.720	407	446	0.0069444
11.730	405	430	0.0069444
11.740	378	417	0.0074316
11.750	396	405	0.0071818
11.760	376	396	0.0074316
11.770	386	388	0.0073051
11.780	367	381	0.0076947
11.790	377	375	0.0074316
11.800	349	370	0.0081162
11.810	367	365	0.0076947
11.820	368	361	0.0076947
11.830	362	358	0.0078315
11.840	353	355	0.0079719
11.850	367	352	0.0076947
11.860	343	350	0.0082645
11.870	332	347	0.0084168
11.880	357	345	0.0078315
11.890	340	344	0.0082645
11.900	350	342	0.0079719
11.910	339	340	0.0082645
11.920	336	339	0.0084168
11.930	354	338	0.0079719
11.940	313	337	0.0089000
11.950	336	336	0.0084168
11.960	312	335	0.0090703
11.970	334	334	0.0084168
11.980	352	333	0.0079719
11.990	330	332	0.0085734
12.000	320	331	0.0087344
12.010	312	331	0.0090703
12.020	345	330	0.0081162
12.030	325	330	0.0085734
12.040	320	329	0.0087344
12.050	304	329	0.0092456
12.060	336	328	0.0082645
12.070	335	328	0.0084168
12.080	330	327	0.0085734
12.090	321	327	0.0087344
12.100	314	327	0.0089000
12.110	325	326	0.0085734
12.120	342	326	0.0081162
12.130	320	326	0.0087344
12.140	345	326	0.0081162
12.150	326	326	0.0085734
12.160	319	325	0.0087344
12.170	304	325	0.0092456
12.180	325	325	0.0085734
12.190	323	325	0.0087344
12.200	311	325	0.0090703
12.210	325	325	0.0085734

12.220	328	325	0.0085734
12.230	341	325	0.0082645
12.240	318	325	0.0087344
12.250	324	326	0.0085734
12.260	321	326	0.0087344
12.270	312	326	0.0089000
12.280	317	326	0.0089000
12.290	325	327	0.0085734
12.300	348	327	0.0079719
12.310	332	328	0.0084168
12.320	318	328	0.0087344
12.330	320	329	0.0087344
12.340	333	330	0.0084168
12.350	317	331	0.0087344
12.360	319	332	0.0087344
12.370	341	334	0.0081162
12.380	339	335	0.0082645
12.390	340	337	0.0082645
12.400	317	340	0.0087344
12.410	334	343	0.0082645
12.420	328	346	0.0085734
12.430	350	351	0.0079719
12.440	336	356	0.0082645
12.450	352	364	0.0079719
12.460	356	373	0.0078315
12.470	357	386	0.0078315
12.480	364	401	0.0076947
12.490	410	421	0.0068301
12.500	409	445	0.0068301
12.510	458	474	0.0061035
12.520	462	508	0.0060093
12.530	536	548	0.0051757
12.540	581	592	0.0047562
12.550	657	642	0.0042166
12.560	740	691	0.0037638
12.570	822	729	0.0033802
12.580	854	736	0.0032653
12.590	771	700	0.0036290
12.600	657	633	0.0042166
12.610	591	563	0.0046913
12.620	506	505	0.0054870
12.630	461	463	0.0060093
12.640	461	433	0.0060093
12.650	424	413	0.0066098
12.660	406	398	0.0068301
12.670	408	388	0.0068301
12.680	389	382	0.0071818
12.690	400	377	0.0069444
12.700	376	375	0.0074316
12.710	377	374	0.0074316
12.720	396	375	0.0070616
12.730	367	378	0.0075614
12.740	401	382	0.0069444
12.750	397	388	0.0069444

12.760	412	396	0.0067186
12.770	397	408	0.0069444
12.780	425	419	0.0065036
12.790	404	434	0.0068301
12.800	450	453	0.0062000
12.810	450	477	0.0062000
12.820	515	506	0.0054066
12.830	530	543	0.0052510
12.840	564	586	0.0049593
12.850	619	638	0.0045043
12.860	700	696	0.0039555
12.870	741	763	0.0037638
12.880	787	834	0.0035431
12.890	864	908	0.0032283
12.900	925	976	0.0029861
12.910	978	1025	0.0028293
12.920	938	1041	0.0029537
12.930	934	1012	0.0029861
12.940	880	943	0.0031562
12.950	829	850	0.0033412
12.960	768	756	0.0036290
12.970	695	672	0.0040058
12.980	603	604	0.0046277
12.990	555	549	0.0049593
13.000	532	507	0.0052510
13.010	514	473	0.0054066
13.020	464	447	0.0060093
13.030	438	426	0.0062988
13.040	415	409	0.0067186
13.050	433	396	0.0064000
13.060	387	385	0.0071818
13.070	407	375	0.0068301
13.080	400	368	0.0069444
13.090	372	361	0.0074316
13.100	364	356	0.0075614
13.110	393	352	0.0070616
13.120	352	349	0.0078315
13.130	356	345	0.0078315
13.140	344	342	0.0081162
13.150	381	339	0.0073051
13.160	354	336	0.0078315
13.170	337	334	0.0082645
13.180	361	332	0.0076947
13.190	357	331	0.0078315
13.200	344	329	0.0081162
13.210	347	328	0.0079719
13.220	342	326	0.0081162
13.230	336	325	0.0082645
13.240	357	324	0.0076947
13.250	360	323	0.0076947
13.260	326	323	0.0084168
13.270	327	322	0.0084168
13.280	347	322	0.0079719
13.290	333	321	0.0082645

13.300	331	321	0.0084168
13.310	331	321	0.0084168
13.320	329	323	0.0084168
13.330	322	323	0.0085734
13.340	319	322	0.0087344
13.350	327	322	0.0084168
13.360	344	322	0.0079719
13.370	338	322	0.0081162
13.380	334	322	0.0082645
13.390	344	322	0.0079719
13.400	330	322	0.0084168
13.410	327	322	0.0084168
13.420	346	322	0.0079719
13.430	329	323	0.0084168
13.440	351	323	0.0078315
13.450	352	323	0.0078315
13.460	347	323	0.0079719
13.470	339	324	0.0081162
13.480	335	324	0.0082645
13.490	338	325	0.0081162
13.500	342	325	0.0081162
13.510	342	326	0.0081162
13.520	353	326	0.0078315
13.530	317	327	0.0087344
13.540	321	328	0.0085734
13.550	347	329	0.0079719
13.560	355	330	0.0078315
13.570	346	331	0.0079719
13.580	339	332	0.0081162
13.590	336	333	0.0082645
13.600	357	334	0.0076947
13.610	353	335	0.0078315
13.620	364	336	0.0075614
13.630	356	338	0.0076947
13.640	345	339	0.0079719
13.650	364	341	0.0075614
13.660	328	342	0.0084168
13.670	366	344	0.0075614
13.680	366	346	0.0075614
13.690	360	348	0.0076947
13.700	383	351	0.0071818
13.710	365	353	0.0075614
13.720	362	356	0.0075614
13.730	388	359	0.0070616
13.740	401	362	0.0068301
13.750	377	365	0.0073051
13.760	409	369	0.0067186
13.770	390	373	0.0070616
13.780	390	377	0.0070616
13.790	393	382	0.0069444
13.800	424	387	0.0065036
13.810	417	392	0.0066098
13.820	420	398	0.0065036
13.830	405	405	0.0068301

13.840	431	412	0.0064000
13.850	437	419	0.0062988
13.860	456	428	0.0060093
13.870	481	437	0.0057392
13.880	464	447	0.0059172
13.890	502	459	0.0054870
13.900	485	471	0.0056532
13.910	490	486	0.0055692
13.920	520	502	0.0052510
13.930	556	519	0.0049593
13.940	537	540	0.0051020
13.950	595	563	0.0046277
13.960	615	589	0.0044444
13.970	646	620	0.0042166
13.980	673	655	0.0040570
13.990	751	697	0.0036290
14.000	789	745	0.0034602
14.010	836	804	0.0032653
14.020	887	874	0.0030864
14.030	951	959	0.0028597
14.040	1095	1063	0.0025000
14.050	1230	1193	0.0022250
14.060	1345	1355	0.0020291
14.070	1579	1558	0.0017361
14.080	1805	1810	0.0015140
14.090	2164	2119	0.0012575
14.100	2524	2489	0.0010821
14.110	2958	2923	0.0009239
14.120	3473	3419	0.0007846
14.130	4040	3965	0.0006747
14.140	4546	4533	0.0006007
14.150	5000	5066	0.0005459
14.160	5215	5464	0.0005236
14.170	5233	5599	0.0005213
14.180	5052	5383	0.0005383
14.190	4670	4858	0.0005834
14.200	4071	4184	0.0006677
14.210	3594	3525	0.0007589
14.220	3064	2971	0.0008858
14.230	2588	2544	0.0010541
14.240	2276	2234	0.0011973
14.250	2040	2024	0.0013320
14.260	1894	1901	0.0014348
14.270	1867	1856	0.0014568
14.280	1852	1883	0.0014680
14.290	1967	1980	0.0013820
14.300	2162	2143	0.0012575
14.310	2395	2371	0.0011337
14.320	2786	2664	0.0009766
14.330	3126	3014	0.0008702
14.340	3510	3395	0.0007716
14.350	3806	3732	0.0007111
14.360	3860	3882	0.0007036
14.370	3664	3693	0.0007384

14.380	3183	3192	0.0008500
14.390	2591	2596	0.0010473
14.400	2112	2085	0.0012847
14.410	1789	1704	0.0015140
14.420	1452	1435	0.0018740
14.430	1307	1246	0.0020661
14.440	1150	1113	0.0023565
14.450	1042	1018	0.0026031
14.460	985	952	0.0027412
14.470	910	907	0.0029861
14.480	937	879	0.0028905
14.490	872	865	0.0031210
14.500	884	864	0.0030524
14.510	897	876	0.0030190
14.520	927	900	0.0029218
14.530	955	939	0.0028293
14.540	1009	994	0.0026846
14.550	1064	1069	0.0025508
14.560	1113	1168	0.0024267
14.570	1325	1295	0.0020475
14.580	1440	1453	0.0018740
14.590	1713	1646	0.0015747
14.600	1953	1874	0.0013820
14.610	2248	2136	0.0012056
14.620	2477	2424	0.0010964
14.630	2759	2724	0.0009827
14.640	2941	3008	0.0009183
14.650	3110	3229	0.0008702
14.660	3123	3330	0.0008651
14.670	3077	3265	0.0008805
14.680	2841	3034	0.0009526
14.690	2615	2693	0.0010339
14.700	2356	2318	0.0011491
14.710	1997	1969	0.0013616
14.720	1728	1672	0.0015623
14.730	1424	1431	0.0019069
14.740	1293	1239	0.0021042
14.750	1103	1086	0.0024507
14.760	954	965	0.0028293
14.770	869	868	0.0031210
14.780	769	790	0.0035431
14.790	747	726	0.0036290
14.800	662	674	0.0041091
14.810	636	630	0.0042719
14.820	593	593	0.0045654
14.830	564	562	0.0048225
14.840	561	536	0.0048225
14.850	514	513	0.0052510
14.860	474	494	0.0057392
14.870	474	477	0.0057392
14.880	468	463	0.0058272
14.890	442	450	0.0061035
14.900	439	440	0.0062000
14.910	432	431	0.0062988

14.920	413	423	0.0066098
14.930	429	417	0.0062988
14.940	413	412	0.0066098
14.950	399	408	0.0068301
14.960	406	405	0.0067186
14.970	403	403	0.0067186
14.980	410	403	0.0066098
14.990	412	404	0.0066098
15.000	397	407	0.0068301
15.010	401	412	0.0067186
15.020	433	419	0.0062988
15.030	461	429	0.0059172
15.040	450	442	0.0060093
15.050	457	461	0.0059172
15.060	481	486	0.0056532
15.070	545	520	0.0049593
15.080	576	566	0.0046913
15.090	643	628	0.0042166
15.100	730	710	0.0037180
15.110	851	815	0.0031919
15.120	1010	944	0.0026846
15.130	1183	1099	0.0022893
15.140	1339	1279	0.0020291
15.150	1555	1479	0.0017507
15.160	1709	1675	0.0015873
15.170	1797	1815	0.0015140
15.180	1726	1821	0.0015747
15.190	1563	1654	0.0017361
15.200	1296	1383	0.0021042
15.210	1153	1117	0.0023565
15.220	931	907	0.0029218
15.230	754	754	0.0035856
15.240	667	645	0.0040570
15.250	599	567	0.0045654
15.260	511	509	0.0053279
15.270	493	466	0.0054870
15.280	440	433	0.0062000
15.290	392	408	0.0069444
15.300	410	387	0.0066098
15.310	374	370	0.0073051
15.320	351	357	0.0076947
15.330	349	345	0.0076947
15.340	327	336	0.0082645
15.350	336	328	0.0081162
15.360	329	320	0.0082645
15.370	319	314	0.0084168
15.380	308	309	0.0087344
15.390	315	304	0.0085734
15.400	288	299	0.0094260
15.410	317	295	0.0085734
15.420	305	291	0.0089000
15.430	288	287	0.0094260
15.440	287	284	0.0094260
15.450	275	282	0.0098030

15.460	288	280	0.0094260
15.470	285	278	0.0094260
15.480	274	277	0.0098030
15.490	264	275	0.0102030
15.500	282	274	0.0096117
15.510	254	273	0.0106281
15.520	267	272	0.0100000
15.530	290	271	0.0092456
15.540	258	270	0.0104123
15.550	273	270	0.0098030
15.560	266	269	0.0102030
15.570	263	269	0.0102030
15.580	269	268	0.0100000
15.590	282	267	0.0096117
15.600	250	266	0.0108507
15.610	265	267	0.0102030
15.620	277	269	0.0096117
15.630	281	271	0.0096117
15.640	277	274	0.0096117
15.650	273	278	0.0098030
15.660	296	283	0.0090703
15.670	293	289	0.0090703
15.680	315	297	0.0085734
15.690	299	307	0.0089000
15.700	343	319	0.0078315
15.710	350	335	0.0076947
15.720	399	353	0.0067186
15.730	419	374	0.0064000
15.740	414	396	0.0065036
15.750	462	419	0.0057392
15.760	475	440	0.0056532
15.770	481	453	0.0055692
15.780	501	455	0.0053279
15.790	456	443	0.0058272
15.800	460	419	0.0058272
15.810	426	391	0.0062988
15.820	381	363	0.0069444
15.830	357	339	0.0074316
15.840	315	320	0.0084168
15.850	314	304	0.0085734
15.860	308	292	0.0085734
15.870	275	282	0.0096117
15.880	287	274	0.0092456
15.890	267	268	0.0100000
15.900	267	263	0.0100000
15.910	249	258	0.0106281
15.920	251	255	0.0106281
15.930	252	252	0.0106281
15.940	274	250	0.0098030
15.950	256	248	0.0104123
15.960	234	246	0.0113173
15.970	238	244	0.0110803
15.980	232	243	0.0113173
15.990	249	242	0.0106281

16.000	236	240	0.0113173
16.010	236	239	0.0113173
16.020	237	238	0.0110803
16.030	243	237	0.0108507
16.040	219	236	0.0120758
16.050	238	236	0.0110803
16.060	230	235	0.0115620
16.070	227	234	0.0115620
16.080	237	234	0.0110803
16.090	231	233	0.0115620
16.100	219	233	0.0120758
16.110	252	232	0.0104123
16.120	220	232	0.0120758
16.130	225	231	0.0118147
16.140	215	231	0.0123457
16.150	226	230	0.0118147
16.160	226	230	0.0118147
16.170	217	230	0.0120758
16.180	224	229	0.0118147
16.190	216	229	0.0123457
16.200	221	228	0.0120758
16.210	220	227	0.0120758
16.220	237	226	0.0110803
16.230	213	225	0.0123457
16.240	212	223	0.0123457
16.250	212	223	0.0126247
16.260	222	222	0.0118147
16.270	223	222	0.0118147
16.280	212	222	0.0126247
16.290	200	221	0.0132118
16.300	231	221	0.0115620
16.310	211	221	0.0126247
16.320	201	221	0.0132118
16.330	219	221	0.0120758
16.340	217	221	0.0123457
16.350	201	220	0.0132118
16.360	200	220	0.0132118
16.370	216	220	0.0123457
16.380	216	220	0.0123457
16.390	223	220	0.0118147
16.400	218	220	0.0120758
16.410	213	220	0.0123457
16.420	217	219	0.0123457
16.430	207	219	0.0129132
16.440	217	219	0.0120758
16.450	218	219	0.0120758
16.460	196	219	0.0135208
16.470	198	219	0.0135208
16.480	222	219	0.0120758
16.490	211	219	0.0126247
16.500	214	219	0.0123457
16.510	200	218	0.0132118
16.520	206	218	0.0129132
16.530	205	218	0.0129132

16.540	196	218	0.0135208
16.550	224	218	0.0118147
16.560	203	218	0.0132118
16.570	209	218	0.0126247
16.580	212	218	0.0126247
16.590	212	218	0.0126247
16.600	198	218	0.0135208
16.610	203	218	0.0132118
16.620	202	218	0.0132118
16.630	195	218	0.0135208
16.640	206	218	0.0129132
16.650	207	217	0.0129132
16.660	210	217	0.0126247
16.670	222	217	0.0120758
16.680	194	217	0.0138408
16.690	206	217	0.0129132
16.700	202	217	0.0132118
16.710	196	217	0.0135208
16.720	201	217	0.0132118
16.730	211	217	0.0126247
16.740	203	217	0.0132118
16.750	200	217	0.0132118
16.760	205	217	0.0129132
16.770	203	218	0.0132118
16.780	192	218	0.0138408
16.790	204	218	0.0129132
16.800	205	218	0.0129132
16.810	204	218	0.0132118
16.820	202	218	0.0132118
16.830	221	218	0.0120758
16.840	216	219	0.0123457
16.850	199	219	0.0132118
16.860	203	219	0.0132118
16.870	198	220	0.0135208
16.880	194	220	0.0138408
16.890	206	221	0.0129132
16.900	211	222	0.0126247
16.910	209	223	0.0126247
16.920	203	223	0.0132118
16.930	210	224	0.0126247
16.940	214	225	0.0123457
16.950	213	225	0.0123457
16.960	218	225	0.0120758
16.970	211	225	0.0126247
16.980	203	225	0.0132118
16.990	208	224	0.0126247
17.000	205	224	0.0129132
17.010	204	223	0.0129132
17.020	216	223	0.0123457
17.030	203	223	0.0132118
17.040	203	223	0.0129132
17.050	213	223	0.0123457
17.060	194	223	0.0135208
17.070	211	224	0.0126247

17.080	207	224	0.0129132
17.090	190	224	0.0138408
17.100	194	225	0.0135208
17.110	214	225	0.0123457
17.120	202	226	0.0132118
17.130	211	227	0.0126247
17.140	202	228	0.0132118
17.150	215	229	0.0123457
17.160	215	230	0.0123457
17.170	221	231	0.0118147
17.180	213	232	0.0123457
17.190	215	234	0.0123457
17.200	222	236	0.0118147
17.210	222	238	0.0118147
17.220	211	240	0.0123457
17.230	220	242	0.0120758
17.240	224	245	0.0118147
17.250	247	249	0.0106281
17.260	239	253	0.0110803
17.270	261	258	0.0102030
17.280	258	265	0.0102030
17.290	263	272	0.0100000
17.300	263	282	0.0100000
17.310	286	295	0.0092456
17.320	299	311	0.0087344
17.330	313	331	0.0084168
17.340	369	355	0.0071818
17.350	386	385	0.0068301
17.360	442	419	0.0059172
17.370	508	456	0.0051757
17.380	518	491	0.0051020
17.390	566	519	0.0046277
17.400	550	528	0.0047562
17.410	535	514	0.0048902
17.420	511	482	0.0051020
17.430	474	445	0.0055692
17.440	429	413	0.0061035
17.450	402	389	0.0065036
17.460	368	373	0.0071818
17.470	355	364	0.0074316
17.480	351	361	0.0074316
17.490	355	363	0.0074316
17.500	352	369	0.0074316
17.510	382	380	0.0068301
17.520	387	395	0.0067186
17.530	406	416	0.0064000
17.540	438	443	0.0060093
17.550	465	477	0.0056532
17.560	506	519	0.0051757
17.570	552	572	0.0047562
17.580	626	636	0.0041623
17.590	711	712	0.0036731
17.600	822	799	0.0031562
17.610	953	893	0.0027412

17.620	1010	987	0.0025767
17.630	1115	1072	0.0023338
17.640	1142	1131	0.0022893
17.650	1203	1149	0.0021633
17.660	1153	1118	0.0022676
17.670	1110	1043	0.0023565
17.680	1007	942	0.0025767
17.690	908	834	0.0028597
17.700	804	735	0.0032283
17.710	709	649	0.0036731
17.720	611	578	0.0042719
17.730	537	520	0.0048225
17.740	481	474	0.0054066
17.750	454	438	0.0057392
17.760	424	408	0.0061035
17.770	403	385	0.0064000
17.780	359	366	0.0071818
17.790	337	351	0.0076947
17.800	329	339	0.0079719
17.810	334	331	0.0078315
17.820	294	325	0.0089000
17.830	315	321	0.0082645
17.840	309	320	0.0084168
17.850	297	321	0.0087344
17.860	320	325	0.0081162
17.870	348	332	0.0074316
17.880	325	340	0.0079719
17.890	342	351	0.0075614
17.900	343	361	0.0075614
17.910	347	371	0.0074316
17.920	342	376	0.0075614
17.930	356	375	0.0073051
17.940	368	367	0.0070616
17.950	330	352	0.0078315
17.960	323	334	0.0079719
17.970	310	317	0.0084168
17.980	299	301	0.0087344
17.990	269	288	0.0096117
18.000	258	277	0.0100000
18.010	276	268	0.0094260
18.020	272	261	0.0096117
18.030	261	256	0.0100000
18.040	259	252	0.0100000
18.050	254	249	0.0102030
18.060	264	247	0.0098030
18.070	248	246	0.0104123
18.080	230	246	0.0113173
18.090	249	246	0.0104123
18.100	261	246	0.0100000
18.110	250	244	0.0104123
18.120	234	242	0.0110803
18.130	237	238	0.0108507
18.140	231	235	0.0113173
18.150	219	231	0.0118147

18.160	226	229	0.0115620
18.170	224	227	0.0115620
18.180	209	225	0.0123457
18.190	236	224	0.0110803
18.200	234	223	0.0110803
18.210	200	223	0.0129132
18.220	220	222	0.0118147
18.230	215	221	0.0120758
18.240	220	221	0.0118147
18.250	221	221	0.0118147
18.260	214	221	0.0120758
18.270	229	221	0.0113173
18.280	221	221	0.0118147
18.290	221	221	0.0118147
18.300	219	221	0.0118147
18.310	224	222	0.0115620
18.320	213	222	0.0120758
18.330	220	223	0.0118147
18.340	226	223	0.0115620
18.350	240	224	0.0108507
18.360	233	225	0.0110803
18.370	240	227	0.0108507
18.380	238	228	0.0108507
18.390	227	230	0.0113173
18.400	229	232	0.0113173
18.410	234	235	0.0110803
18.420	240	238	0.0108507
18.430	244	242	0.0106281
18.440	241	246	0.0108507
18.450	244	251	0.0106281
18.460	269	258	0.0096117
18.470	251	266	0.0104123
18.480	274	275	0.0094260
18.490	296	287	0.0087344
18.500	290	302	0.0089000
18.510	317	320	0.0081162
18.520	358	342	0.0071818
18.530	397	369	0.0065036
18.540	416	400	0.0062000
18.550	437	434	0.0059172
18.560	503	470	0.0051020
18.570	511	503	0.0050299
18.580	551	527	0.0046913
18.590	545	536	0.0047562
18.600	533	528	0.0048225
18.610	515	502	0.0050299
18.620	483	465	0.0053279
18.630	443	426	0.0058272
18.640	406	390	0.0062988
18.650	358	360	0.0071818
18.660	330	335	0.0078315
18.670	321	316	0.0079719
18.680	310	301	0.0082645
18.690	308	290	0.0084168

18.700	288	282	0.0089000
18.710	291	276	0.0089000
18.720	279	272	0.0092456
18.730	286	267	0.0090703
18.740	257	263	0.0100000
18.750	272	257	0.0094260
18.760	261	251	0.0098030
18.770	246	244	0.0104123
18.780	230	238	0.0110803
18.790	239	233	0.0108507
18.800	233	229	0.0110803
18.810	215	226	0.0118147
18.820	214	223	0.0120758
18.830	212	221	0.0120758
18.840	215	219	0.0118147
18.850	220	217	0.0115620
18.860	228	216	0.0113173
18.870	213	214	0.0120758
18.880	216	213	0.0118147
18.890	202	212	0.0126247
18.900	203	212	0.0126247
18.910	208	211	0.0123457
18.920	215	210	0.0118147
18.930	215	209	0.0118147
18.940	198	209	0.0129132
18.950	206	208	0.0123457
18.960	199	208	0.0129132
18.970	209	208	0.0123457
18.980	209	207	0.0123457
18.990	192	207	0.0132118
19.000	222	207	0.0115620
19.010	211	206	0.0120758
19.020	200	206	0.0129132
19.030	209	206	0.0120758
19.040	211	206	0.0120758
19.050	206	206	0.0123457
19.060	211	206	0.0120758
19.070	203	206	0.0126247
19.080	220	206	0.0115620
19.090	214	206	0.0118147
19.100	229	206	0.0110803
19.110	206	207	0.0123457
19.120	203	208	0.0126247
19.130	230	208	0.0110803
19.140	202	208	0.0126247
19.150	210	208	0.0120758
19.160	226	209	0.0113173
19.170	212	209	0.0120758
19.180	214	209	0.0118147
19.190	219	210	0.0115620
19.200	194	211	0.0132118
19.210	222	211	0.0115620
19.220	225	212	0.0113173
19.230	205	213	0.0123457

19.240	212	215	0.0120758
19.250	209	216	0.0123457
19.260	199	218	0.0129132
19.270	203	221	0.0126247
19.280	231	224	0.0110803
19.290	231	228	0.0110803
19.300	237	232	0.0108507
19.310	230	239	0.0110803
19.320	244	247	0.0104123
19.330	250	258	0.0102030
19.340	255	273	0.0100000
19.350	270	291	0.0094260
19.360	305	313	0.0084168
19.370	361	338	0.0070616
19.380	366	365	0.0069444
19.390	412	388	0.0062000
19.400	446	400	0.0057392
19.410	432	393	0.0059172
19.420	372	369	0.0069444
19.430	348	338	0.0074316
19.440	331	309	0.0076947
19.450	276	286	0.0092456
19.460	267	269	0.0096117
19.470	256	257	0.0100000
19.480	252	248	0.0102030
19.490	230	242	0.0110803
19.500	231	238	0.0110803
19.510	238	236	0.0108507
19.520	221	235	0.0115620
19.530	232	234	0.0110803
19.540	223	235	0.0115620
19.550	239	237	0.0106281
19.560	235	239	0.0108507
19.570	230	242	0.0110803
19.580	253	244	0.0102030
19.590	267	246	0.0096117
19.600	241	247	0.0106281
19.610	274	245	0.0094260
19.620	239	243	0.0108507
19.630	250	239	0.0102030
19.640	247	234	0.0104123
19.650	236	231	0.0108507
19.660	237	227	0.0108507
19.670	216	224	0.0118147
19.680	233	221	0.0110803
19.690	209	219	0.0123457
19.700	216	218	0.0118147
19.710	223	217	0.0115620
19.720	220	216	0.0115620
19.730	210	215	0.0120758
19.740	200	215	0.0129132
19.750	208	214	0.0123457
19.760	224	214	0.0115620
19.770	223	214	0.0115620

19.780	220	214	0.0115620
19.790	229	215	0.0113173
19.800	210	215	0.0120758
19.810	204	216	0.0126247
19.820	219	217	0.0115620
19.830	217	217	0.0118147
19.840	217	219	0.0118147
19.850	216	220	0.0118147
19.860	204	222	0.0126247
19.870	213	224	0.0120758
19.880	216	227	0.0118147
19.890	229	230	0.0110803
19.900	240	234	0.0106281
19.910	246	239	0.0104123
19.920	246	246	0.0104123
19.930	256	255	0.0100000
19.940	251	266	0.0102030
19.950	274	281	0.0092456
19.960	307	301	0.0082645
19.970	342	326	0.0074316
19.980	359	355	0.0070616
19.990	397	388	0.0064000
20.000	442	420	0.0145159
20.010	469	445	0.0082645
20.020	467	451	0.0082645
20.030	451	434	0.0085734
20.040	386	400	0.0100000
20.050	369	362	0.0104123
20.060	296	329	0.0132118
20.070	278	303	0.0138408
20.080	277	284	0.0138408
20.090	269	270	0.0145159
20.100	247	260	0.0156250
20.110	236	253	0.0164366
20.120	266	247	0.0145159
20.130	248	243	0.0156250
20.140	248	240	0.0156250
20.150	241	238	0.0160231
20.160	223	236	0.0173130
20.170	220	236	0.0173130
20.180	223	235	0.0173130
20.190	239	235	0.0160231
20.200	228	235	0.0168663
20.210	243	235	0.0156250
20.220	226	236	0.0168663
20.230	226	237	0.0168663
20.240	228	238	0.0168663
20.250	241	240	0.0160231
20.260	234	241	0.0164366
20.270	241	243	0.0160231
20.280	240	246	0.0160231
20.290	254	248	0.0152416
20.300	252	251	0.0152416
20.310	261	255	0.0145159

20.320	262	259	0.0145159
20.330	238	264	0.0160231
20.340	257	269	0.0148721
20.350	263	275	0.0145159
20.360	278	281	0.0138408
20.370	273	289	0.0138408
20.380	295	298	0.0129132
20.390	297	308	0.0129132
20.400	318	319	0.0120758
20.410	325	333	0.0118147
20.420	360	349	0.0106281
20.430	366	367	0.0104123
20.440	385	388	0.0098030
20.450	401	413	0.0094260
20.460	433	443	0.0087344
20.470	459	479	0.0082645
20.480	506	523	0.0075614
20.490	562	577	0.0068301
20.500	637	646	0.0060093
20.510	720	734	0.0053279
20.520	812	846	0.0046913
20.530	973	985	0.0039063
20.540	1162	1153	0.0032653
20.550	1371	1347	0.0027701
20.560	1575	1556	0.0024267
20.570	1767	1757	0.0021433
20.580	1894	1911	0.0020109
20.590	1905	1974	0.0019930
20.600	1915	1916	0.0019930
20.610	1735	1749	0.0021836
20.620	1557	1525	0.0024507
20.630	1364	1296	0.0027995
20.640	1144	1094	0.0033412
20.650	952	927	0.0040058
20.660	828	796	0.0045654
20.670	737	693	0.0051757
20.680	632	612	0.0060093
20.690	552	549	0.0068301
20.700	516	499	0.0074316
20.710	461	458	0.0082645
20.720	437	426	0.0087344
20.730	399	399	0.0096117
20.740	378	377	0.0100000
20.750	357	358	0.0106281
20.760	356	343	0.0106281
20.770	333	330	0.0113173
20.780	308	319	0.0123457
20.790	313	309	0.0120758
20.800	294	301	0.0129132
20.810	301	294	0.0126247
20.820	293	289	0.0129132
20.830	283	283	0.0135208
20.840	283	279	0.0135208
20.850	278	275	0.0138408

20.860	274	272	0.0138408
20.870	270	270	0.0141723
20.880	269	268	0.0141723
20.890	273	266	0.0138408
20.900	275	265	0.0138408
20.910	259	264	0.0148721
20.920	258	263	0.0148721
20.930	268	263	0.0141723
20.940	281	264	0.0135208
20.950	279	265	0.0135208
20.960	271	266	0.0141723
20.970	273	268	0.0138408
20.980	279	270	0.0138408
20.990	268	273	0.0141723
21.000	281	277	0.0135208
21.010	283	282	0.0135208
21.020	291	288	0.0132118
21.030	294	296	0.0129132
21.040	303	305	0.0126247
21.050	302	316	0.0126247
21.060	318	330	0.0120758
21.070	343	347	0.0110803
21.080	367	370	0.0104123
21.090	395	397	0.0096117
21.100	437	433	0.0087344
21.110	487	476	0.0078315
21.120	558	530	0.0068301
21.130	622	592	0.0061035
21.140	671	661	0.0056532
21.150	758	729	0.0050299
21.160	802	786	0.0047562
21.170	854	818	0.0044444
21.180	808	812	0.0047562
21.190	775	770	0.0048902
21.200	735	704	0.0051757
21.210	666	631	0.0057392
21.220	572	564	0.0067186
21.230	526	508	0.0073051
21.240	476	463	0.0079719
21.250	451	430	0.0084168
21.260	421	405	0.0090703
21.270	383	388	0.0100000
21.280	380	376	0.0100000
21.290	381	370	0.0100000
21.300	384	368	0.0100000
21.310	386	370	0.0098030
21.320	368	376	0.0104123
21.330	400	385	0.0094260
21.340	397	397	0.0096117
21.350	413	411	0.0092456
21.360	427	424	0.0089000
21.370	430	433	0.0089000
21.380	446	437	0.0085734
21.390	452	433	0.0084168

21.400	416	423	0.0090703
21.410	417	406	0.0090703
21.420	392	388	0.0096117
21.430	385	370	0.0098030
21.440	360	354	0.0104123
21.450	328	341	0.0115620
21.460	333	330	0.0113173
21.470	331	322	0.0113173
21.480	304	315	0.0123457
21.490	306	311	0.0123457
21.500	309	309	0.0120758
21.510	294	308	0.0129132
21.520	308	308	0.0123457
21.530	293	309	0.0129132
21.540	317	312	0.0118147
21.550	302	316	0.0123457
21.560	327	322	0.0115620
21.570	326	328	0.0115620
21.580	319	337	0.0118147
21.590	343	348	0.0108507
21.600	358	361	0.0104123
21.610	365	377	0.0102030
21.620	374	397	0.0100000
21.630	418	422	0.0089000
21.640	455	452	0.0082645
21.650	480	491	0.0078315
21.660	520	541	0.0071818
21.670	591	605	0.0062988
21.680	663	690	0.0056532
21.690	805	804	0.0046277
21.700	960	957	0.0039063
21.710	1185	1161	0.0031562
21.720	1446	1425	0.0025767
21.730	1814	1751	0.0020661
21.740	2156	2121	0.0017361
21.750	2436	2490	0.0015379
21.760	2583	2760	0.0014457
21.770	2610	2804	0.0014348
21.780	2378	2566	0.0015747
21.790	2051	2151	0.0018263
21.800	1699	1721	0.0022041
21.810	1363	1368	0.0027412
21.820	1129	1104	0.0033029
21.830	955	913	0.0039063
21.840	752	774	0.0049593
21.850	690	672	0.0054066
21.860	633	596	0.0059172
21.870	551	539	0.0067186
21.880	513	495	0.0073051
21.890	479	461	0.0078315
21.900	452	435	0.0082645
21.910	447	414	0.0084168
21.920	436	397	0.0085734
21.930	411	385	0.0090703

21.940	377	375	0.0100000
21.950	380	368	0.0098030
21.960	383	364	0.0098030
21.970	372	362	0.0100000
21.980	362	361	0.0104123
21.990	367	363	0.0102030
22.000	380	367	0.0098030
22.010	364	373	0.0102030
22.020	377	381	0.0098030
22.030	397	393	0.0094260
22.040	402	407	0.0092456
22.050	436	426	0.0085734
22.060	428	449	0.0087344
22.070	472	478	0.0078315
22.080	519	514	0.0071818
22.090	554	559	0.0067186
22.100	618	613	0.0060093
22.110	654	678	0.0057392
22.120	755	754	0.0049593
22.130	864	838	0.0043283
22.140	961	924	0.0038579
22.150	975	1004	0.0038104
22.160	1043	1064	0.0035856
22.170	1103	1091	0.0033802
22.180	1062	1077	0.0035013
22.190	1023	1024	0.0036290
22.200	939	944	0.0039555
22.210	855	854	0.0043858
22.220	770	765	0.0048225
22.230	694	686	0.0054066
22.240	638	618	0.0058272
22.250	576	562	0.0065036
22.260	510	517	0.0073051
22.270	480	481	0.0078315
22.280	428	453	0.0087344
22.290	408	431	0.0090703
22.300	403	413	0.0092456
22.310	387	400	0.0096117
22.320	369	390	0.0102030
22.330	358	384	0.0104123
22.340	376	380	0.0100000
22.350	347	380	0.0108507
22.360	375	382	0.0100000
22.370	380	388	0.0098030
22.380	375	396	0.0100000
22.390	413	409	0.0090703
22.400	410	426	0.0090703
22.410	455	448	0.0082645
22.420	493	476	0.0075614
22.430	533	510	0.0069444
22.440	618	550	0.0060093
22.450	643	595	0.0058272
22.460	688	642	0.0054066
22.470	733	687	0.0051020

22.480	777	723	0.0048225
22.490	806	744	0.0046277
22.500	788	743	0.0047562
22.510	767	720	0.0048902
22.520	753	681	0.0049593
22.530	696	631	0.0053279
22.540	616	580	0.0061035
22.550	551	532	0.0067186
22.560	509	489	0.0073051
22.570	475	454	0.0078315
22.580	445	424	0.0084168
22.590	424	400	0.0087344
22.600	386	381	0.0096117
22.610	371	366	0.0100000
22.620	362	354	0.0102030
22.630	328	344	0.0113173
22.640	342	338	0.0108507
22.650	323	333	0.0115620
22.660	323	331	0.0115620
22.670	311	331	0.0120758
22.680	308	332	0.0120758
22.690	330	336	0.0113173
22.700	334	341	0.0110803
22.710	343	350	0.0108507
22.720	343	361	0.0108507
22.730	343	377	0.0108507
22.740	392	397	0.0094260
22.750	411	423	0.0090703
22.760	414	456	0.0089000
22.770	484	498	0.0076947
22.780	535	551	0.0069444
22.790	614	613	0.0054870
22.800	666	685	0.0067186
22.810	757	761	0.0065036
22.820	825	832	0.0059172
22.830	839	886	0.0058272
22.840	892	909	0.0054870
22.850	868	895	0.0056532
22.860	822	844	0.0059172
22.870	737	769	0.0066098
22.880	671	683	0.0073051
22.890	589	602	0.0082645
22.900	525	532	0.0094260
22.910	469	475	0.0104123
22.920	426	429	0.0115620
22.930	407	395	0.0120758
22.940	362	368	0.0135208
22.950	348	346	0.0141723
22.960	330	329	0.0148721
22.970	293	315	0.0168663
22.980	308	304	0.0156250
22.990	290	295	0.0168663
23.000	282	287	0.0173130
23.010	272	281	0.0177778

23.020	279	277	0.0173130
23.030	269	273	0.0177778
23.040	263	270	0.0182615
23.050	255	268	0.0187652
23.060	253	266	0.0192901
23.070	251	265	0.0192901
23.080	245	265	0.0198373
23.090	240	266	0.0198373
23.100	267	267	0.0182615
23.110	264	269	0.0182615
23.120	264	273	0.0182615
23.130	250	277	0.0192901
23.140	274	282	0.0177778
23.150	272	288	0.0177778
23.160	249	297	0.0192901
23.170	296	307	0.0164366
23.180	275	320	0.0173130
23.190	297	336	0.0160231
23.200	313	356	0.0152416
23.210	333	381	0.0145159
23.220	349	413	0.0138408
23.230	376	453	0.0129132
23.240	420	504	0.0113173
23.250	477	572	0.0100000
23.260	554	664	0.0087344
23.270	704	787	0.0068301
23.280	936	946	0.0051020
23.290	1234	1138	0.0039063
23.300	1585	1342	0.0030190
23.310	1836	1506	0.0026031
23.320	1858	1547	0.0025767
23.330	1631	1418	0.0029537
23.340	1272	1181	0.0037638
23.350	935	943	0.0051020
23.360	724	754	0.0066098
23.370	607	619	0.0079719
23.380	514	523	0.0092456
23.390	444	455	0.0108507
23.400	401	406	0.0120758
23.410	359	369	0.0132118
23.420	343	341	0.0138408
23.430	317	319	0.0152416
23.440	299	302	0.0160231
23.450	277	289	0.0173130
23.460	278	278	0.0173130
23.470	277	268	0.0173130
23.480	266	261	0.0182615
23.490	246	254	0.0192901
23.500	245	249	0.0198373
23.510	234	244	0.0204082
23.520	249	240	0.0192901
23.530	234	237	0.0204082
23.540	227	234	0.0210040
23.550	236	231	0.0204082

23.560	230	229	0.0210040
23.570	236	227	0.0204082
23.580	222	225	0.0216263
23.590	234	224	0.0204082
23.600	222	222	0.0216263
23.610	221	221	0.0216263
23.620	222	220	0.0216263
23.630	218	219	0.0222767
23.640	208	218	0.0229568
23.650	208	218	0.0229568
23.660	228	217	0.0210040
23.670	220	217	0.0216263
23.680	215	217	0.0222767
23.690	227	217	0.0210040
23.700	212	217	0.0229568
23.710	213	218	0.0222767
23.720	219	219	0.0222767
23.730	213	220	0.0229568
23.740	213	222	0.0222767
23.750	217	224	0.0222767
23.760	220	227	0.0216263
23.770	234	232	0.0204082
23.780	233	239	0.0210040
23.790	247	247	0.0192901
23.800	263	258	0.0182615
23.810	297	270	0.0164366
23.820	329	282	0.0148721
23.830	334	291	0.0145159
23.840	334	293	0.0145159
23.850	311	286	0.0156250
23.860	278	272	0.0173130
23.870	266	258	0.0182615
23.880	248	246	0.0192901
23.890	233	237	0.0210040
23.900	237	230	0.0204082
23.910	223	225	0.0216263
23.920	228	222	0.0210040
23.930	219	219	0.0222767
23.940	223	217	0.0216263
23.950	218	215	0.0222767
23.960	209	214	0.0229568
23.970	211	213	0.0229568
23.980	210	213	0.0229568
23.990	213	212	0.0229568
24.000	194	212	0.0251953
24.010	209	212	0.0229568
24.020	212	211	0.0229568
24.030	202	211	0.0244141
24.040	206	211	0.0236686
24.050	216	211	0.0222767
24.060	215	212	0.0229568
24.070	206	212	0.0236686
24.080	222	212	0.0216263
24.090	210	213	0.0229568

24.100	204	214	0.0236686
24.110	216	215	0.0222767
24.120	213	216	0.0229568
24.130	217	217	0.0222767
24.140	224	218	0.0216263
24.150	232	220	0.0210040
24.160	224	222	0.0216263
24.170	224	224	0.0216263
24.180	234	226	0.0210040
24.190	234	229	0.0210040
24.200	228	232	0.0210040
24.210	238	235	0.0204082
24.220	239	239	0.0204082
24.230	234	244	0.0210040
24.240	256	249	0.0187652
24.250	249	256	0.0192901
24.260	259	264	0.0187652
24.270	269	273	0.0177778
24.280	269	285	0.0182615
24.290	304	299	0.0160231
24.300	317	316	0.0152416
24.310	356	338	0.0135208
24.320	369	364	0.0132118
24.330	400	396	0.0120758
24.340	452	434	0.0106281
24.350	505	477	0.0096117
24.360	551	525	0.0087344
24.370	591	571	0.0082645
24.380	625	609	0.0076947
24.390	661	631	0.0073051
24.400	648	630	0.0074316
24.410	636	606	0.0075614
24.420	588	564	0.0082645
24.430	526	515	0.0092456
24.440	482	467	0.0100000
24.450	446	423	0.0108507
24.460	391	386	0.0123457
24.470	373	356	0.0129132
24.480	356	332	0.0135208
24.490	305	313	0.0160231
24.500	305	297	0.0156250
24.510	291	285	0.0164366
24.520	284	276	0.0168663
24.530	281	268	0.0173130
24.540	287	262	0.0168663
24.550	274	257	0.0177778
24.560	268	253	0.0182615
24.570	256	249	0.0187652
24.580	249	246	0.0192901
24.590	251	243	0.0192901
24.600	243	239	0.0198373
24.610	237	236	0.0204082
24.620	256	233	0.0187652
24.630	234	231	0.0204082

24.640	243	229	0.0198373
24.650	237	227	0.0204082
24.660	232	226	0.0210040
24.670	227	225	0.0210040
24.680	229	224	0.0210040
24.690	225	224	0.0216263
24.700	234	224	0.0204082
24.710	220	224	0.0216263
24.720	234	224	0.0204082
24.730	233	225	0.0204082
24.740	234	227	0.0204082
24.750	237	229	0.0204082
24.760	240	231	0.0198373
24.770	243	234	0.0198373
24.780	242	238	0.0198373
24.790	262	243	0.0182615
24.800	260	249	0.0182615
24.810	272	257	0.0177778
24.820	277	267	0.0173130
24.830	300	280	0.0160231
24.840	312	297	0.0152416
24.850	339	318	0.0141723
24.860	370	346	0.0129132
24.870	417	381	0.0115620
24.880	432	421	0.0110803
24.890	483	464	0.0100000
24.900	494	503	0.0098030
24.910	507	527	0.0094260
24.920	486	526	0.0098030
24.930	477	499	0.0100000
24.940	450	455	0.0106281
24.950	413	408	0.0115620
24.960	371	367	0.0129132
24.970	347	334	0.0138408
24.980	308	308	0.0156250
24.990	274	288	0.0173130
25.000	264	273	0.0182615
25.010	270	262	0.0177778
25.020	249	253	0.0192901
25.030	235	246	0.0204082
25.040	238	240	0.0204082
25.050	248	236	0.0192901
25.060	217	233	0.0222767
25.070	222	230	0.0216263
25.080	235	228	0.0204082
25.090	233	227	0.0204082
25.100	212	226	0.0229568
25.110	237	226	0.0204082
25.120	235	226	0.0204082
25.130	227	227	0.0210040
25.140	232	228	0.0204082
25.150	221	229	0.0216263
25.160	231	232	0.0210040
25.170	234	234	0.0204082

25.180	250	238	0.0192901
25.190	251	243	0.0192901
25.200	243	248	0.0198373
25.210	239	255	0.0198373
25.220	261	263	0.0182615
25.230	270	272	0.0177778
25.240	290	281	0.0164366
25.250	280	289	0.0173130
25.260	294	297	0.0164366
25.270	311	301	0.0152416
25.280	313	303	0.0152416
25.290	309	302	0.0156250
25.300	300	298	0.0160231
25.310	308	295	0.0156250
25.320	296	292	0.0160231
25.330	306	290	0.0156250
25.340	296	288	0.0160231
25.350	309	288	0.0156250
25.360	317	287	0.0152416
25.370	318	286	0.0152416
25.380	301	284	0.0160231
25.390	298	280	0.0160231
25.400	290	274	0.0164366
25.410	281	267	0.0168663
25.420	269	260	0.0177778
25.430	255	254	0.0187652
25.440	256	249	0.0187652
25.450	250	245	0.0192901
25.460	251	243	0.0192901
25.470	251	241	0.0192901
25.480	245	241	0.0198373
25.490	243	241	0.0198373
25.500	244	243	0.0198373
25.510	244	245	0.0198373
25.520	240	248	0.0198373
25.530	258	251	0.0187652
25.540	265	253	0.0182615
25.550	274	255	0.0173130
25.560	252	255	0.0192901
25.570	248	253	0.0192901
25.580	245	250	0.0192901
25.590	248	246	0.0192901
25.600	247	241	0.0192901
25.610	237	237	0.0204082
25.620	238	233	0.0198373
25.630	227	229	0.0210040
25.640	219	226	0.0216263
25.650	220	224	0.0216263
25.660	220	222	0.0216263
25.670	216	220	0.0222767
25.680	217	219	0.0222767
25.690	219	218	0.0216263
25.700	204	218	0.0236686
25.710	214	217	0.0222767

25.720	221	217	0.0216263
25.730	220	217	0.0216263
25.740	217	217	0.0222767
25.750	229	217	0.0210040
25.760	214	218	0.0222767
25.770	223	219	0.0216263
25.780	219	220	0.0216263
25.790	230	221	0.0210040
25.800	216	222	0.0222767
25.810	219	223	0.0216263
25.820	216	225	0.0222767
25.830	219	227	0.0216263
25.840	229	230	0.0210040
25.850	236	232	0.0204082
25.860	229	236	0.0210040
25.870	234	239	0.0204082
25.880	249	244	0.0192901
25.890	237	249	0.0204082
25.900	249	255	0.0192901
25.910	237	262	0.0204082
25.920	271	271	0.0177778
25.930	268	280	0.0177778
25.940	286	292	0.0168663
25.950	309	306	0.0156250
25.960	317	322	0.0152416
25.970	335	341	0.0141723
25.980	356	363	0.0135208
25.990	383	387	0.0126247
26.000	398	412	0.0120758
26.010	412	436	0.0115620
26.020	456	455	0.0104123
26.030	466	468	0.0102030
26.040	474	472	0.0102030
26.050	451	465	0.0106281
26.060	455	451	0.0104123
26.070	422	431	0.0113173
26.080	397	410	0.0120758
26.090	397	390	0.0120758
26.100	372	373	0.0129132
26.110	349	359	0.0138408
26.120	342	349	0.0138408
26.130	316	342	0.0152416
26.140	330	340	0.0145159
26.150	333	340	0.0145159
26.160	315	344	0.0152416
26.170	345	352	0.0138408
26.180	364	362	0.0132118
26.190	360	374	0.0132118
26.200	374	386	0.0129132
26.210	393	397	0.0120758
26.220	394	404	0.0120758
26.230	404	405	0.0118147
26.240	390	399	0.0123457
26.250	400	387	0.0120758

26.260	364	370	0.0132118
26.270	339	352	0.0141723
26.280	342	334	0.0141723
26.290	312	317	0.0152416
26.300	298	303	0.0160231
26.310	287	291	0.0168663
26.320	270	281	0.0177778
26.330	277	273	0.0173130
26.340	253	266	0.0187652
26.350	245	261	0.0192901
26.360	256	256	0.0187652
26.370	249	252	0.0192901
26.380	248	248	0.0192901
26.390	235	244	0.0204082
26.400	236	242	0.0204082
26.410	255	240	0.0187652
26.420	229	238	0.0210040
26.430	247	237	0.0192901
26.440	230	236	0.0210040
26.450	228	236	0.0210040
26.460	226	236	0.0210040
26.470	244	236	0.0198373
26.480	234	237	0.0204082
26.490	234	238	0.0204082
26.500	245	239	0.0192901
26.510	247	241	0.0192901
26.520	258	244	0.0187652
26.530	248	247	0.0192901
26.540	255	250	0.0187652
26.550	255	255	0.0187652
26.560	269	260	0.0177778
26.570	272	266	0.0177778
26.580	284	274	0.0168663
26.590	286	283	0.0168663
26.600	303	294	0.0156250
26.610	316	307	0.0152416
26.620	335	322	0.0141723
26.630	339	341	0.0141723
26.640	378	363	0.0126247
26.650	410	388	0.0115620
26.660	425	415	0.0113173
26.670	479	444	0.0100000
26.680	510	474	0.0094260
26.690	528	502	0.0090703
26.700	541	529	0.0089000
26.710	577	555	0.0082645
26.720	613	582	0.0078315
26.730	643	610	0.0074316
26.740	660	634	0.0071818
26.750	653	645	0.0073051
26.760	649	633	0.0073051
26.770	578	594	0.0082645
26.780	538	538	0.0089000
26.790	470	479	0.0102030

26.800	410	428	0.0115620
26.810	368	387	0.0129132
26.820	350	355	0.0135208
26.830	318	330	0.0148721
26.840	305	311	0.0156250
26.850	287	296	0.0168663
26.860	277	285	0.0173130
26.870	279	275	0.0173130
26.880	255	268	0.0187652
26.890	239	262	0.0198373
26.900	254	257	0.0187652
26.910	247	253	0.0192901
26.920	244	250	0.0192901
26.930	242	248	0.0198373
26.940	242	246	0.0198373
26.950	256	245	0.0187652
26.960	241	244	0.0198373
26.970	235	244	0.0204082
26.980	240	244	0.0198373
26.990	239	244	0.0198373
27.000	247	245	0.0192901
27.010	247	246	0.0192901
27.020	255	248	0.0187652
27.030	243	250	0.0198373
27.040	246	252	0.0192901
27.050	256	255	0.0187652
27.060	256	259	0.0187652
27.070	270	263	0.0177778
27.080	253	269	0.0187652
27.090	276	275	0.0173130
27.100	278	282	0.0173130
27.110	300	291	0.0160231
27.120	291	301	0.0164366
27.130	304	313	0.0156250
27.140	323	328	0.0148721
27.150	349	346	0.0135208
27.160	358	367	0.0132118
27.170	394	393	0.0120758
27.180	417	425	0.0113173
27.190	453	463	0.0104123
27.200	503	507	0.0094260
27.210	577	558	0.0082645
27.220	632	614	0.0075614
27.230	680	669	0.0069444
27.240	721	717	0.0066098
27.250	743	750	0.0064000
27.260	746	759	0.0064000
27.270	735	742	0.0065036
27.280	713	705	0.0066098
27.290	660	654	0.0071818
27.300	625	599	0.0075614
27.310	554	548	0.0085734
27.320	526	503	0.0090703
27.330	498	466	0.0094260

27.340	443	437	0.0106281
27.350	408	414	0.0115620
27.360	410	396	0.0115620
27.370	383	384	0.0123457
27.380	394	375	0.0120758
27.390	382	369	0.0123457
27.400	385	365	0.0123457
27.410	373	361	0.0126247
27.420	358	357	0.0132118
27.430	360	353	0.0132118
27.440	361	347	0.0132118
27.450	351	340	0.0135208
27.460	337	333	0.0141723
27.470	341	327	0.0138408
27.480	348	323	0.0135208
27.490	335	320	0.0141723
27.500	318	318	0.0148721
27.510	329	319	0.0145159
27.520	317	322	0.0148721
27.530	323	327	0.0145159
27.540	332	335	0.0141723
27.550	356	346	0.0132118
27.560	358	361	0.0132118
27.570	355	380	0.0132118
27.580	403	406	0.0118147
27.590	444	440	0.0106281
27.600	476	485	0.0098030
27.610	547	544	0.0085734
27.620	641	620	0.0073051
27.630	760	712	0.0062000
27.640	868	818	0.0054066
27.650	975	922	0.0048225
27.660	1018	1004	0.0046277
27.670	1049	1040	0.0045043
27.680	1054	1026	0.0044444
27.690	1013	983	0.0046277
27.700	933	936	0.0050299
27.710	900	897	0.0052510
27.720	841	862	0.0055692
27.730	789	819	0.0060093
27.740	745	763	0.0062988
27.750	683	695	0.0069444
27.760	622	624	0.0075614
27.770	570	558	0.0082645
27.780	508	503	0.0092456
27.790	490	457	0.0096117
27.800	433	421	0.0108507
27.810	404	393	0.0115620
27.820	383	371	0.0123457
27.830	343	354	0.0138408
27.840	337	341	0.0138408
27.850	341	331	0.0138408
27.860	338	324	0.0138408
27.870	320	319	0.0148721

27.880	313	316	0.0152416
27.890	306	316	0.0152416
27.900	315	317	0.0148721
27.910	325	320	0.0145159
27.920	317	325	0.0148721
27.930	324	333	0.0145159
27.940	351	343	0.0135208
27.950	365	356	0.0129132
27.960	387	372	0.0120758
27.970	411	392	0.0115620
27.980	441	416	0.0106281
27.990	462	444	0.0102030
28.000	494	476	0.0096117
28.010	542	511	0.0087344
28.020	578	547	0.0081162
28.030	613	579	0.0076947
28.040	642	603	0.0073051
28.050	659	616	0.0071818
28.060	662	614	0.0070616
28.070	647	598	0.0073051
28.080	626	572	0.0075614
28.090	559	540	0.0084168
28.100	557	507	0.0084168
28.110	507	477	0.0092456
28.120	479	451	0.0098030
28.130	449	428	0.0104123
28.140	410	408	0.0115620
28.150	404	389	0.0115620
28.160	367	371	0.0129132
28.170	361	354	0.0129132
28.180	337	337	0.0138408
28.190	322	320	0.0145159
28.200	304	306	0.0156250
28.210	299	293	0.0156250
28.220	271	282	0.0173130
28.230	276	273	0.0168663
28.240	253	264	0.0187652
28.250	254	258	0.0187652
28.260	252	252	0.0187652
28.270	253	247	0.0187652
28.280	249	242	0.0187652
28.290	248	239	0.0187652
28.300	248	235	0.0187652
28.310	234	233	0.0198373
28.320	229	230	0.0204082
28.330	233	228	0.0204082
28.340	214	227	0.0216263
28.350	221	225	0.0210040
28.360	225	224	0.0210040
28.370	227	224	0.0204082
28.380	216	223	0.0216263
28.390	224	223	0.0210040
28.400	225	223	0.0210040
28.410	222	223	0.0210040

28.420	222	224	0.0210040
28.430	224	225	0.0210040
28.440	214	226	0.0216263
28.450	227	228	0.0204082
28.460	240	230	0.0192901
28.470	238	234	0.0198373
28.480	236	238	0.0198373
28.490	249	243	0.0187652
28.500	238	249	0.0198373
28.510	259	257	0.0182615
28.520	271	266	0.0173130
28.530	289	278	0.0160231
28.540	309	292	0.0152416
28.550	326	308	0.0141723
28.560	341	327	0.0138408
28.570	375	346	0.0123457
28.580	385	364	0.0120758
28.590	373	378	0.0126247
28.600	390	385	0.0120758
28.610	394	382	0.0118147
28.620	389	370	0.0120758
28.630	364	352	0.0129132
28.640	334	330	0.0138408
28.650	315	309	0.0148721
28.660	296	290	0.0156250
28.670	279	274	0.0168663
28.680	267	261	0.0173130
28.690	246	250	0.0187652
28.700	235	241	0.0198373
28.710	241	234	0.0192901
28.720	235	228	0.0198373
28.730	224	223	0.0210040
28.740	210	219	0.0222767
28.750	212	215	0.0222767
28.760	218	212	0.0216263
28.770	210	210	0.0222767
28.780	213	208	0.0216263
28.790	202	206	0.0229568
28.800	196	204	0.0236686
28.810	201	203	0.0229568
28.820	195	201	0.0236686
28.830	198	200	0.0236686
28.840	193	199	0.0244141
28.850	196	198	0.0236686
28.860	201	197	0.0229568
28.870	189	197	0.0244141
28.880	202	196	0.0229568
28.890	192	196	0.0244141
28.900	192	195	0.0244141
28.910	219	195	0.0210040
28.920	184	195	0.0251953
28.930	183	194	0.0251953
28.940	189	194	0.0244141
28.950	203	195	0.0229568

28.960	193	195	0.0244141
28.970	183	195	0.0251953
28.980	188	195	0.0244141
28.990	196	194	0.0236686
29.000	200	193	0.0229568
29.010	192	192	0.0244141
29.020	187	191	0.0251953
29.030	188	191	0.0244141
29.040	189	190	0.0244141
29.050	185	190	0.0251953
29.060	192	190	0.0244141
29.070	196	189	0.0236686
29.080	187	189	0.0251953
29.090	192	189	0.0244141
29.100	186	189	0.0251953
29.110	187	189	0.0244141
29.120	202	189	0.0229568
29.130	188	188	0.0244141
29.140	191	188	0.0244141
29.150	187	188	0.0251953
29.160	195	188	0.0236686
29.170	182	188	0.0251953
29.180	185	188	0.0251953
29.190	184	188	0.0251953
29.200	199	188	0.0236686
29.210	192	188	0.0244141
29.220	180	188	0.0260146
29.230	191	188	0.0244141
29.240	177	189	0.0260146
29.250	188	189	0.0244141
29.260	188	189	0.0244141
29.270	191	190	0.0244141
29.280	175	190	0.0268745
29.290	186	191	0.0251953
29.300	186	192	0.0251953
29.310	196	193	0.0236686
29.320	193	194	0.0244141
29.330	194	196	0.0236686
29.340	200	198	0.0229568
29.350	209	202	0.0222767
29.360	207	206	0.0222767
29.370	213	212	0.0216263
29.380	220	219	0.0210040
29.390	227	225	0.0204082
29.400	235	230	0.0198373
29.410	220	232	0.0210040
29.420	229	228	0.0204082
29.430	224	222	0.0210040
29.440	210	215	0.0222767
29.450	205	209	0.0229568
29.460	200	205	0.0229568
29.470	202	202	0.0229568
29.480	187	200	0.0251953
29.490	190	199	0.0244141

29.500	191	199	0.0244141
29.510	193	198	0.0244141
29.520	191	199	0.0244141
29.530	202	199	0.0229568
29.540	203	200	0.0229568
29.550	185	201	0.0251953
29.560	192	203	0.0244141
29.570	198	204	0.0236686
29.580	199	205	0.0236686
29.590	214	207	0.0216263
29.600	215	207	0.0216263
29.610	195	208	0.0236686
29.620	194	208	0.0236686
29.630	202	208	0.0229568
29.640	200	208	0.0229568
29.650	199	209	0.0236686
29.660	203	210	0.0229568
29.670	205	211	0.0229568
29.680	198	212	0.0236686
29.690	200	213	0.0229568
29.700	192	214	0.0244141
29.710	204	215	0.0229568
29.720	197	216	0.0236686
29.730	214	217	0.0216263
29.740	209	219	0.0222767
29.750	224	222	0.0204082
29.760	216	226	0.0216263
29.770	220	232	0.0210040
29.780	236	238	0.0198373
29.790	240	246	0.0192901
29.800	254	255	0.0182615
29.810	276	266	0.0168663
29.820	278	278	0.0164366
29.830	293	292	0.0156250
29.840	295	304	0.0156250
29.850	318	315	0.0145159
29.860	313	322	0.0148721
29.870	327	324	0.0141723
29.880	318	320	0.0145159
29.890	323	311	0.0141723
29.900	298	300	0.0156250
29.910	283	287	0.0164366
29.920	266	276	0.0173130
29.930	273	265	0.0168663
29.940	256	256	0.0177778
29.950	253	249	0.0182615
29.960	240	243	0.0192901
29.970	245	239	0.0187652
29.980	225	235	0.0204082
29.990	234	233	0.0198373
30.000	221	231	0.0493827
30.010	230	229	0.0268745
30.020	222	227	0.0277778
30.030	230	224	0.0268745

30.040	215	222	0.0287274
30.050	215	219	0.0287274
30.060	211	216	0.0287274
30.070	214	213	0.0287274
30.080	196	210	0.0307787
30.090	202	208	0.0307787
30.100	209	206	0.0297265
30.110	199	204	0.0307787
30.120	193	203	0.0318878
30.130	189	202	0.0330579
30.140	198	201	0.0307787
30.150	199	200	0.0307787
30.160	188	200	0.0330579
30.170	198	200	0.0307787
30.180	181	200	0.0342936
30.190	193	200	0.0318878
30.200	194	200	0.0318878
30.210	191	200	0.0318878
30.220	196	201	0.0318878
30.230	187	201	0.0330579
30.240	192	202	0.0318878
30.250	196	204	0.0307787
30.260	199	205	0.0307787
30.270	207	207	0.0297265
30.280	196	208	0.0318878
30.290	210	210	0.0287274
30.300	209	211	0.0297265
30.310	205	212	0.0297265
30.320	211	212	0.0287274
30.330	205	211	0.0297265
30.340	203	211	0.0297265
30.350	210	212	0.0297265
30.360	201	212	0.0307787
30.370	203	213	0.0297265
30.380	209	215	0.0297265
30.390	217	217	0.0287274
30.400	210	219	0.0297265
30.410	211	222	0.0287274
30.420	212	226	0.0287274
30.430	227	231	0.0268745
30.440	228	236	0.0268745
30.450	232	243	0.0268745
30.460	240	251	0.0260146
30.470	255	262	0.0244141
30.480	270	274	0.0229568
30.490	289	288	0.0210040
30.500	293	304	0.0210040
30.510	311	321	0.0198373
30.520	340	337	0.0182615
30.530	354	352	0.0173130
30.540	373	365	0.0164366
30.550	380	378	0.0160231
30.560	405	392	0.0152416
30.570	433	407	0.0141723

30.580	417	420	0.0148721
30.590	444	430	0.0138408
30.600	452	434	0.0135208
30.610	446	431	0.0138408
30.620	444	422	0.0138408
30.630	434	409	0.0141723
30.640	406	393	0.0152416
30.650	380	376	0.0160231
30.660	346	358	0.0177778
30.670	341	342	0.0182615
30.680	322	326	0.0192901
30.690	313	314	0.0198373
30.700	302	304	0.0204082
30.710	285	297	0.0216263
30.720	274	293	0.0222767
30.730	269	291	0.0229568
30.740	276	292	0.0222767
30.750	290	294	0.0210040
30.760	273	299	0.0222767
30.770	284	306	0.0216263
30.780	301	315	0.0204082
30.790	304	325	0.0198373
30.800	330	337	0.0187652
30.810	333	348	0.0182615
30.820	348	357	0.0177778
30.830	355	364	0.0173130
30.840	357	366	0.0173130
30.850	340	363	0.0177778
30.860	337	356	0.0182615
30.870	328	346	0.0187652
30.880	324	334	0.0187652
30.890	318	322	0.0192901
30.900	303	311	0.0198373
30.910	297	301	0.0204082
30.920	288	291	0.0210040
30.930	270	282	0.0222767
30.940	260	272	0.0236686
30.950	244	262	0.0251953
30.960	250	253	0.0244141
30.970	231	245	0.0260146
30.980	230	238	0.0260146
30.990	222	232	0.0268745
31.000	222	228	0.0268745
31.010	227	224	0.0268745
31.020	222	221	0.0268745
31.030	222	219	0.0268745
31.040	208	217	0.0287274
31.050	211	216	0.0287274
31.060	213	215	0.0287274
31.070	210	215	0.0287274
31.080	211	215	0.0287274
31.090	212	215	0.0287274
31.100	213	216	0.0287274
31.110	211	216	0.0287274

31.120	226	215	0.0268745
31.130	216	215	0.0277778
31.140	209	214	0.0287274
31.150	215	213	0.0277778
31.160	212	212	0.0287274
31.170	206	212	0.0287274
31.180	209	212	0.0287274
31.190	209	212	0.0287274
31.200	211	212	0.0287274
31.210	201	213	0.0297265
31.220	209	214	0.0287274
31.230	209	216	0.0287274
31.240	213	218	0.0277778
31.250	207	220	0.0287274
31.260	219	223	0.0277778
31.270	220	227	0.0277778
31.280	223	231	0.0268745
31.290	232	236	0.0260146
31.300	233	241	0.0260146
31.310	227	248	0.0268745
31.320	253	256	0.0236686
31.330	253	265	0.0236686
31.340	275	276	0.0216263
31.350	277	288	0.0216263
31.360	286	301	0.0210040
31.370	319	315	0.0187652
31.380	321	329	0.0187652
31.390	346	343	0.0173130
31.400	355	355	0.0168663
31.410	355	365	0.0168663
31.420	370	373	0.0164366
31.430	376	381	0.0160231
31.440	384	389	0.0156250
31.450	403	399	0.0148721
31.460	422	413	0.0141723
31.470	447	431	0.0135208
31.480	445	452	0.0135208
31.490	474	473	0.0126247
31.500	491	490	0.0123457
31.510	487	498	0.0123457
31.520	469	493	0.0129132
31.530	449	475	0.0135208
31.540	437	447	0.0138408
31.550	412	415	0.0145159
31.560	364	384	0.0164366
31.570	349	355	0.0173130
31.580	339	330	0.0177778
31.590	302	309	0.0198373
31.600	288	292	0.0210040
31.610	270	278	0.0222767
31.620	268	267	0.0222767
31.630	250	257	0.0244141
31.640	248	250	0.0244141
31.650	243	244	0.0244141

31.660	233	239	0.0260146
31.670	227	235	0.0268745
31.680	217	232	0.0277778
31.690	232	229	0.0260146
31.700	220	228	0.0268745
31.710	227	227	0.0260146
31.720	232	226	0.0260146
31.730	234	227	0.0260146
31.740	227	228	0.0260146
31.750	234	230	0.0251953
31.760	235	233	0.0251953
31.770	244	237	0.0244141
31.780	240	242	0.0251953
31.790	258	250	0.0229568
31.800	257	259	0.0229568
31.810	292	272	0.0204082
31.820	280	286	0.0216263
31.830	306	303	0.0192901
31.840	335	319	0.0177778
31.850	319	331	0.0187652
31.860	338	337	0.0177778
31.870	332	334	0.0177778
31.880	332	326	0.0177778
31.890	320	315	0.0187652
31.900	303	304	0.0198373
31.910	291	294	0.0204082
31.920	276	284	0.0216263
31.930	267	276	0.0222767
31.940	274	269	0.0216263
31.950	250	264	0.0236686
31.960	254	260	0.0236686
31.970	259	258	0.0229568
31.980	255	258	0.0229568
31.990	251	260	0.0236686
32.000	260	264	0.0229568
32.010	259	270	0.0229568
32.020	269	278	0.0222767
32.030	283	290	0.0210040
32.040	296	305	0.0198373
32.050	319	326	0.0187652
32.060	349	353	0.0168663
32.070	411	388	0.0145159
32.080	445	432	0.0132118
32.090	552	482	0.0106281
32.100	588	535	0.0100000
32.110	653	578	0.0090703
32.120	666	599	0.0089000
32.130	637	589	0.0092456
32.140	593	553	0.0100000
32.150	539	503	0.0108507
32.160	467	454	0.0126247
32.170	416	413	0.0141723
32.180	397	382	0.0148721
32.190	376	360	0.0156250

32.200	346	345	0.0173130
32.210	338	336	0.0173130
32.220	338	332	0.0173130
32.230	354	333	0.0168663
32.240	352	336	0.0168663
32.250	367	342	0.0160231
32.260	361	348	0.0164366
32.270	352	353	0.0168663
32.280	360	356	0.0164366
32.290	359	355	0.0164366
32.300	357	352	0.0164366
32.310	349	345	0.0168663
32.320	345	338	0.0173130
32.330	340	331	0.0173130
32.340	347	325	0.0173130
32.350	336	321	0.0177778
32.360	333	319	0.0177778
32.370	332	319	0.0177778
32.380	334	321	0.0177778
32.390	322	324	0.0182615
32.400	329	328	0.0182615
32.410	338	331	0.0177778
32.420	333	333	0.0177778
32.430	340	333	0.0173130
32.440	345	330	0.0173130
32.450	341	326	0.0173130
32.460	328	321	0.0182615
32.470	323	316	0.0182615
32.480	316	312	0.0187652
32.490	314	309	0.0187652
32.500	296	308	0.0198373
32.510	298	309	0.0198373
32.520	314	313	0.0187652
32.530	310	320	0.0192901
32.540	325	330	0.0182615
32.550	332	346	0.0177778
32.560	365	366	0.0164366
32.570	393	393	0.0152416
32.580	430	429	0.0138408
32.590	481	473	0.0123457
32.600	514	526	0.0115620
32.610	573	585	0.0104123
32.620	621	642	0.0096117
32.630	654	685	0.0090703
32.640	672	706	0.0089000
32.650	676	703	0.0087344
32.660	653	683	0.0090703
32.670	636	656	0.0092456
32.680	625	626	0.0094260
32.690	590	593	0.0100000
32.700	547	556	0.0108507
32.710	537	516	0.0110803
32.720	491	475	0.0120758
32.730	453	437	0.0129132

32.740	410	402	0.0145159
32.750	383	373	0.0152416
32.760	350	348	0.0168663
32.770	327	328	0.0182615
32.780	305	312	0.0192901
32.790	294	299	0.0198373
32.800	293	288	0.0198373
32.810	269	281	0.0216263
32.820	275	275	0.0216263
32.830	267	271	0.0222767
32.840	261	269	0.0222767
32.850	254	268	0.0229568
32.860	249	269	0.0236686
32.870	258	271	0.0229568
32.880	259	274	0.0229568
32.890	262	278	0.0222767
32.900	262	282	0.0222767
32.910	262	286	0.0222767
32.920	282	292	0.0210040
32.930	262	299	0.0222767
32.940	297	307	0.0198373
32.950	311	318	0.0187652
32.960	298	331	0.0198373
32.970	326	346	0.0177778
32.980	355	364	0.0164366
32.990	372	384	0.0156250
33.000	388	407	0.0152416
33.010	434	432	0.0135208
33.020	444	458	0.0132118
33.030	470	481	0.0123457
33.040	485	499	0.0120758
33.050	476	508	0.0123457
33.060	476	506	0.0123457
33.070	482	493	0.0120758
33.080	451	471	0.0129132
33.090	424	443	0.0138408
33.100	404	413	0.0145159
33.110	377	384	0.0152416
33.120	346	357	0.0168663
33.130	324	333	0.0177778
33.140	302	312	0.0192901
33.150	293	294	0.0198373
33.160	274	279	0.0210040
33.170	258	266	0.0222767
33.180	255	255	0.0229568
33.190	246	245	0.0236686
33.200	231	237	0.0251953
33.210	212	230	0.0277778
33.220	213	224	0.0268745
33.230	220	219	0.0260146
33.240	206	214	0.0287274
33.250	212	210	0.0277778
33.260	204	206	0.0287274
33.270	195	203	0.0297265

33.280	202	200	0.0287274
33.290	194	198	0.0297265
33.300	199	195	0.0287274
33.310	208	193	0.0277778
33.320	193	191	0.0297265
33.330	185	190	0.0307787
33.340	189	188	0.0307787
33.350	183	187	0.0318878
33.360	191	185	0.0297265
33.370	187	184	0.0307787
33.380	188	183	0.0307787
33.390	179	182	0.0318878
33.400	184	181	0.0318878
33.410	182	180	0.0318878
33.420	194	179	0.0297265
33.430	173	178	0.0330579
33.440	181	178	0.0318878
33.450	186	177	0.0307787
33.460	170	176	0.0342936
33.470	196	176	0.0297265
33.480	175	175	0.0330579
33.490	183	175	0.0318878
33.500	183	174	0.0318878
33.510	172	174	0.0330579
33.520	181	174	0.0318878
33.530	182	173	0.0318878
33.540	174	173	0.0330579
33.550	173	173	0.0330579
33.560	186	172	0.0307787
33.570	177	172	0.0330579
33.580	181	172	0.0318878
33.590	173	171	0.0330579
33.600	180	171	0.0318878
33.610	180	171	0.0318878
33.620	180	171	0.0318878
33.630	183	170	0.0318878
33.640	176	170	0.0330579
33.650	175	170	0.0330579
33.660	175	170	0.0330579
33.670	178	170	0.0318878
33.680	171	170	0.0330579
33.690	175	170	0.0330579
33.700	171	170	0.0330579
33.710	171	170	0.0342936
33.720	179	169	0.0318878
33.730	172	169	0.0330579
33.740	172	169	0.0330579
33.750	168	169	0.0342936
33.760	174	169	0.0330579
33.770	178	169	0.0318878
33.780	174	170	0.0330579
33.790	166	170	0.0342936
33.800	167	170	0.0342936
33.810	167	170	0.0342936

33.820	179	170	0.0318878
33.830	172	170	0.0330579
33.840	174	171	0.0330579
33.850	178	171	0.0330579
33.860	175	171	0.0330579
33.870	179	172	0.0318878
33.880	177	172	0.0330579
33.890	169	173	0.0342936
33.900	172	174	0.0342936
33.910	178	175	0.0330579
33.920	179	176	0.0318878
33.930	176	177	0.0330579
33.940	194	179	0.0297265
33.950	181	181	0.0318878
33.960	194	184	0.0297265
33.970	185	187	0.0307787
33.980	189	191	0.0307787
33.990	204	196	0.0287274
34.000	220	202	0.0260146
34.010	200	207	0.0287274
34.020	211	212	0.0277778
34.030	214	214	0.0268745
34.040	217	213	0.0268745
34.050	216	211	0.0268745
34.060	211	208	0.0277778
34.070	203	207	0.0287274
34.080	216	207	0.0268745
34.090	218	208	0.0268745
34.100	219	212	0.0260146
34.110	220	216	0.0260146
34.120	233	221	0.0244141
34.130	234	226	0.0244141
34.140	230	230	0.0251953
34.150	233	231	0.0244141
34.160	234	230	0.0244141
34.170	235	227	0.0244141
34.180	233	223	0.0244141
34.190	239	221	0.0236686
34.200	217	219	0.0260146
34.210	232	219	0.0244141
34.220	232	220	0.0244141
34.230	230	222	0.0251953
34.240	224	226	0.0260146
34.250	234	231	0.0244141
34.260	245	236	0.0236686
34.270	248	243	0.0229568
34.280	261	250	0.0216263
34.290	275	256	0.0210040
34.300	270	262	0.0210040
34.310	267	267	0.0216263
34.320	284	271	0.0204082
34.330	299	272	0.0192901
34.340	298	273	0.0192901
34.350	290	274	0.0198373

34.360	310	276	0.0182615
34.370	293	278	0.0192901
34.380	294	280	0.0192901
34.390	278	280	0.0204082
34.400	281	276	0.0204082
34.410	279	269	0.0204082
34.420	269	259	0.0210040
34.430	259	249	0.0216263
34.440	236	240	0.0244141
34.450	239	234	0.0236686
34.460	223	229	0.0251953
34.470	226	227	0.0251953
34.480	223	225	0.0251953
34.490	228	226	0.0251953
34.500	229	227	0.0244141
34.510	228	229	0.0251953
34.520	231	231	0.0244141
34.530	233	234	0.0244141
34.540	233	236	0.0244141
34.550	240	237	0.0236686
34.560	235	238	0.0236686
34.570	235	237	0.0236686
34.580	242	236	0.0236686
34.590	241	235	0.0236686
34.600	243	234	0.0229568
34.610	226	233	0.0251953
34.620	236	234	0.0236686
34.630	249	235	0.0222767
34.640	247	237	0.0229568
34.650	251	239	0.0222767
34.660	255	242	0.0222767
34.670	247	244	0.0229568
34.680	239	246	0.0236686
34.690	263	247	0.0216263
34.700	268	248	0.0210040
34.710	240	248	0.0236686
34.720	249	248	0.0222767
34.730	250	248	0.0222767
34.740	261	249	0.0216263
34.750	258	251	0.0216263
34.760	247	255	0.0229568
34.770	254	260	0.0222767
34.780	272	266	0.0204082
34.790	267	274	0.0210040
34.800	295	283	0.0192901
34.810	285	294	0.0198373
34.820	314	307	0.0177778
34.830	328	321	0.0173130
34.840	335	337	0.0168663
34.850	357	354	0.0156250
34.860	384	372	0.0145159
34.870	379	390	0.0148721
34.880	409	408	0.0138408
34.890	432	424	0.0129132

34.900	432	437	0.0129132
34.910	453	446	0.0123457
34.920	451	450	0.0123457
34.930	461	447	0.0120758
34.940	452	436	0.0123457
34.950	423	418	0.0132118
34.960	382	395	0.0148721
34.970	363	370	0.0156250
34.980	345	346	0.0164366
34.990	320	324	0.0177778
35.000	302	304	0.0187652
35.010	297	288	0.0187652
35.020	284	275	0.0198373
35.030	266	264	0.0210040
35.040	257	256	0.0216263
35.050	239	249	0.0236686
35.060	250	244	0.0222767
35.070	242	241	0.0229568
35.080	231	239	0.0244141
35.090	221	238	0.0251953
35.100	235	239	0.0236686
35.110	245	241	0.0229568
35.120	238	245	0.0236686
35.130	246	251	0.0229568
35.140	252	258	0.0222767
35.150	276	268	0.0204082
35.160	293	282	0.0192901
35.170	298	299	0.0187652
35.180	321	320	0.0173130
35.190	337	346	0.0164366
35.200	371	377	0.0152416
35.210	399	411	0.0141723
35.220	420	446	0.0132118
35.230	440	476	0.0126247
35.240	446	495	0.0126247
35.250	456	501	0.0123457
35.260	446	495	0.0126247
35.270	462	485	0.0120758
35.280	461	476	0.0120758
35.290	476	469	0.0118147
35.300	445	458	0.0126247
35.310	411	433	0.0135208
35.320	387	396	0.0145159
35.330	344	354	0.0164366
35.340	305	318	0.0182615
35.350	281	288	0.0198373
35.360	266	266	0.0210040
35.370	249	249	0.0222767
35.380	243	237	0.0229568
35.390	236	227	0.0236686
35.400	210	219	0.0268745
35.410	219	213	0.0251953
35.420	217	209	0.0260146
35.430	211	205	0.0268745

35.440	220	203	0.0251953
35.450	209	201	0.0268745
35.460	208	200	0.0268745
35.470	211	199	0.0260146
35.480	215	199	0.0260146
35.490	205	199	0.0268745
35.500	202	198	0.0277778
35.510	201	198	0.0277778
35.520	209	198	0.0268745
35.530	205	199	0.0268745
35.540	198	201	0.0277778
35.550	201	203	0.0277778
35.560	215	207	0.0260146
35.570	211	211	0.0260146
35.580	218	217	0.0251953
35.590	229	224	0.0244141
35.600	236	232	0.0236686
35.610	244	242	0.0229568
35.620	267	251	0.0210040
35.630	284	261	0.0198373
35.640	286	268	0.0192901
35.650	290	272	0.0192901
35.660	305	271	0.0182615
35.670	284	266	0.0192901
35.680	267	257	0.0210040
35.690	270	247	0.0204082
35.700	244	237	0.0229568
35.710	244	227	0.0229568
35.720	242	219	0.0229568
35.730	225	213	0.0244141
35.740	226	207	0.0244141
35.750	215	202	0.0260146
35.760	203	198	0.0277778
35.770	201	195	0.0277778
35.780	191	192	0.0287274
35.790	209	189	0.0268745
35.800	195	186	0.0287274
35.810	190	183	0.0297265
35.820	193	181	0.0287274
35.830	186	179	0.0297265
35.840	180	178	0.0307787
35.850	180	176	0.0307787
35.860	168	175	0.0330579
35.870	175	174	0.0318878
35.880	186	173	0.0297265
35.890	175	172	0.0318878
35.900	179	171	0.0307787
35.910	173	171	0.0318878
35.920	174	171	0.0318878
35.930	182	170	0.0307787
35.940	165	170	0.0330579
35.950	183	170	0.0307787
35.960	173	170	0.0318878
35.970	165	170	0.0330579

35.980	176	170	0.0318878
35.990	174	171	0.0318878
36.000	169	171	0.0330579
36.010	175	172	0.0318878
36.020	174	172	0.0318878
36.030	171	173	0.0318878
36.040	176	174	0.0318878
36.050	179	174	0.0307787
36.060	166	175	0.0330579
36.070	170	177	0.0318878
36.080	177	178	0.0307787
36.090	170	180	0.0330579
36.100	180	181	0.0307787
36.110	179	183	0.0307787
36.120	182	186	0.0307787
36.130	183	188	0.0297265
36.140	180	191	0.0307787
36.150	188	195	0.0297265
36.160	187	199	0.0297265
36.170	203	203	0.0268745
36.180	205	209	0.0268745
36.190	200	215	0.0277778
36.200	221	223	0.0251953
36.210	238	232	0.0229568
36.220	228	243	0.0244141
36.230	251	256	0.0216263
36.240	263	272	0.0210040
36.250	275	291	0.0198373
36.260	297	314	0.0182615
36.270	328	341	0.0168663
36.280	352	371	0.0156250
36.290	367	403	0.0148721
36.300	412	435	0.0132118
36.310	448	465	0.0123457
36.320	478	494	0.0113173
36.330	537	524	0.0102030
36.340	584	556	0.0094260
36.350	638	587	0.0085734
36.360	663	610	0.0082645
36.370	657	611	0.0082645
36.380	616	585	0.0089000
36.390	540	539	0.0100000
36.400	487	485	0.0110803
36.410	442	436	0.0123457
36.420	391	396	0.0138408
36.430	348	365	0.0156250
36.440	327	344	0.0164366
36.450	309	331	0.0177778
36.460	308	323	0.0177778
36.470	318	322	0.0168663
36.480	347	328	0.0156250
36.490	340	339	0.0141723
36.500	359	357	0.0156250
36.510	376	383	0.0192901

36.520	411	414	0.0173130
36.530	416	446	0.0173130
36.540	425	470	0.0168663
36.550	429	479	0.0168663
36.560	428	470	0.0168663
36.570	417	450	0.0173130
36.580	421	429	0.0173130
36.590	402	414	0.0182615
36.600	411	408	0.0177778
36.610	414	409	0.0177778
36.620	437	418	0.0168663
36.630	446	432	0.0164366
36.640	473	452	0.0156250
36.650	482	474	0.0152416
36.660	494	497	0.0148721
36.670	527	518	0.0138408
36.680	535	533	0.0138408
36.690	548	539	0.0132118
36.700	547	535	0.0135208
36.710	525	521	0.0138408
36.720	486	497	0.0148721
36.730	466	468	0.0156250
36.740	455	436	0.0160231
36.750	405	404	0.0182615
36.760	371	375	0.0198373
36.770	348	348	0.0210040
36.780	310	324	0.0236686
36.790	314	304	0.0229568
36.800	286	286	0.0251953
36.810	268	271	0.0268745
36.820	255	257	0.0277778
36.830	248	246	0.0287274
36.840	235	236	0.0307787
36.850	223	228	0.0318878
36.860	206	221	0.0342936
36.870	202	214	0.0355999
36.880	209	209	0.0342936
36.890	198	204	0.0355999
36.900	189	200	0.0384468
36.910	194	196	0.0369822
36.920	185	193	0.0384468
36.930	188	190	0.0384468
36.940	186	187	0.0384468
36.950	169	185	0.0434028
36.960	186	184	0.0384468
36.970	179	182	0.0400000
36.980	175	181	0.0416493
36.990	166	180	0.0434028
37.000	178	180	0.0400000
37.010	179	180	0.0400000
37.020	169	179	0.0416493
37.030	173	179	0.0416493
37.040	169	179	0.0434028
37.050	181	178	0.0400000

37.060	170	178	0.0416493
37.070	160	176	0.0452694
37.080	166	175	0.0434028
37.090	163	173	0.0434028
37.100	168	171	0.0434028
37.110	169	170	0.0434028
37.120	167	168	0.0434028
37.130	163	167	0.0434028
37.140	162	166	0.0452694
37.150	160	165	0.0452694
37.160	170	165	0.0416493
37.170	155	165	0.0472590
37.180	167	165	0.0434028
37.190	158	165	0.0452694
37.200	166	166	0.0434028
37.210	162	167	0.0452694
37.220	163	168	0.0452694
37.230	166	169	0.0434028
37.240	166	170	0.0434028
37.250	164	169	0.0434028
37.260	167	168	0.0434028
37.270	169	167	0.0434028
37.280	180	166	0.0400000
37.290	163	166	0.0452694
37.300	169	166	0.0434028
37.310	177	166	0.0416493
37.320	172	166	0.0416493
37.330	182	167	0.0400000
37.340	166	168	0.0434028
37.350	166	170	0.0434028
37.360	172	171	0.0416493
37.370	170	174	0.0434028
37.380	175	176	0.0416493
37.390	181	179	0.0400000
37.400	185	182	0.0384468
37.410	189	186	0.0384468
37.420	205	190	0.0355999
37.430	204	195	0.0355999
37.440	210	201	0.0342936
37.450	211	207	0.0342936
37.460	221	213	0.0330579
37.470	231	219	0.0307787
37.480	239	225	0.0297265
37.490	247	230	0.0297265
37.500	245	233	0.0297265
37.510	250	234	0.0287274
37.520	242	233	0.0297265
37.530	248	230	0.0287274
37.540	235	226	0.0307787
37.550	232	221	0.0307787
37.560	227	216	0.0318878
37.570	225	211	0.0318878
37.580	220	207	0.0330579
37.590	213	203	0.0342936

37.600	209	201	0.0342936
37.610	194	199	0.0369822
37.620	206	198	0.0355999
37.630	182	197	0.0400000
37.640	210	198	0.0342936
37.650	205	200	0.0355999
37.660	205	202	0.0355999
37.670	202	205	0.0355999
37.680	207	209	0.0342936
37.690	210	213	0.0342936
37.700	221	217	0.0330579
37.710	229	221	0.0318878
37.720	237	223	0.0307787
37.730	218	223	0.0330579
37.740	226	221	0.0318878
37.750	221	218	0.0330579
37.760	213	213	0.0342936
37.770	213	206	0.0342936
37.780	199	199	0.0355999
37.790	185	193	0.0384468
37.800	190	187	0.0384468
37.810	182	181	0.0400000
37.820	169	177	0.0434028
37.830	171	173	0.0416493
37.840	172	170	0.0416493
37.850	164	168	0.0434028
37.860	167	166	0.0434028
37.870	174	164	0.0416493
37.880	159	163	0.0452694
37.890	162	161	0.0434028
37.900	160	161	0.0452694
37.910	156	160	0.0452694
37.920	163	160	0.0434028
37.930	169	160	0.0434028
37.940	160	160	0.0452694
37.950	162	161	0.0434028
37.960	171	162	0.0416493
37.970	170	164	0.0416493
37.980	164	165	0.0434028
37.990	163	167	0.0434028
38.000	165	169	0.0434028
38.010	184	171	0.0384468
38.020	169	172	0.0416493
38.030	180	172	0.0400000
38.040	178	171	0.0400000
38.050	165	169	0.0434028
38.060	168	166	0.0416493
38.070	167	163	0.0434028
38.080	166	160	0.0434028
38.090	164	158	0.0434028
38.100	164	156	0.0434028
38.110	155	154	0.0452694
38.120	151	152	0.0472590
38.130	154	151	0.0472590

38.140	146	150	0.0493827
38.150	151	149	0.0472590
38.160	143	149	0.0493827
38.170	155	148	0.0452694
38.180	155	148	0.0452694
38.190	159	148	0.0452694
38.200	146	148	0.0493827
38.210	150	148	0.0472590
38.220	150	148	0.0472590
38.230	156	148	0.0452694
38.240	158	149	0.0452694
38.250	151	149	0.0472590
38.260	152	150	0.0472590
38.270	149	151	0.0472590
38.280	154	152	0.0472590
38.290	162	154	0.0434028
38.300	163	156	0.0434028
38.310	169	158	0.0416493
38.320	169	161	0.0416493
38.330	167	164	0.0434028
38.340	166	167	0.0434028
38.350	181	170	0.0400000
38.360	178	172	0.0400000
38.370	175	172	0.0400000
38.380	172	172	0.0416493
38.390	169	170	0.0416493
38.400	177	168	0.0400000
38.410	174	165	0.0416493
38.420	168	163	0.0416493
38.430	164	160	0.0434028
38.440	161	158	0.0452694
38.450	158	156	0.0452694
38.460	161	155	0.0434028
38.470	155	154	0.0452694
38.480	156	153	0.0452694
38.490	151	153	0.0472590
38.500	152	153	0.0472590
38.510	145	154	0.0493827
38.520	154	156	0.0472590
38.530	157	158	0.0452694
38.540	162	161	0.0434028
38.550	157	164	0.0452694
38.560	154	169	0.0472590
38.570	170	175	0.0416493
38.580	167	180	0.0434028
38.590	163	182	0.0434028
38.600	158	181	0.0452694
38.610	174	178	0.0416493
38.620	163	172	0.0434028
38.630	166	166	0.0434028
38.640	159	162	0.0452694
38.650	157	158	0.0452694
38.660	165	155	0.0434028
38.670	149	153	0.0472590

38.680	151	151	0.0472590
38.690	147	150	0.0493827
38.700	143	149	0.0493827
38.710	156	148	0.0452694
38.720	152	148	0.0472590
38.730	147	148	0.0493827
38.740	147	147	0.0493827
38.750	147	147	0.0493827
38.760	148	148	0.0472590
38.770	146	148	0.0493827
38.780	152	148	0.0472590
38.790	156	149	0.0452694
38.800	146	149	0.0493827
38.810	142	150	0.0493827
38.820	152	150	0.0472590
38.830	155	151	0.0452694
38.840	157	152	0.0452694
38.850	160	153	0.0434028
38.860	152	154	0.0472590
38.870	161	155	0.0434028
38.880	155	156	0.0452694
38.890	155	157	0.0452694
38.900	157	159	0.0452694
38.910	163	160	0.0434028
38.920	167	163	0.0416493
38.930	161	165	0.0434028
38.940	169	168	0.0416493
38.950	180	172	0.0400000
38.960	181	176	0.0384468
38.970	185	181	0.0384468
38.980	185	187	0.0384468
38.990	201	194	0.0355999
39.000	190	201	0.0369822
39.010	204	208	0.0342936
39.020	221	215	0.0318878
39.030	215	220	0.0330579
39.040	209	223	0.0342936
39.050	215	223	0.0330579
39.060	218	223	0.0318878
39.070	212	221	0.0330579
39.080	214	218	0.0330579
39.090	202	214	0.0355999
39.100	197	211	0.0355999
39.110	201	207	0.0355999
39.120	191	204	0.0369822
39.130	190	202	0.0369822
39.140	194	201	0.0369822
39.150	202	201	0.0342936
39.160	192	202	0.0369822
39.170	201	205	0.0342936
39.180	200	209	0.0355999
39.190	208	215	0.0342936
39.200	224	223	0.0318878
39.210	225	234	0.0307787

39.220	224	247	0.0307787
39.230	249	261	0.0287274
39.240	257	276	0.0277778
39.250	266	288	0.0260146
39.260	274	294	0.0260146
39.270	278	296	0.0251953
39.280	282	295	0.0251953
39.290	273	293	0.0260146
39.300	293	292	0.0236686
39.310	290	294	0.0244141
39.320	297	298	0.0236686
39.330	313	303	0.0222767
39.340	321	311	0.0216263
39.350	345	320	0.0204082
39.360	344	333	0.0204082
39.370	374	348	0.0187652
39.380	401	365	0.0173130
39.390	411	383	0.0173130
39.400	419	399	0.0168663
39.410	431	407	0.0164366
39.420	437	404	0.0160231
39.430	400	388	0.0177778
39.440	376	364	0.0187652
39.450	349	336	0.0204082
39.460	320	310	0.0222767
39.470	291	288	0.0244141
39.480	288	269	0.0244141
39.490	272	255	0.0260146
39.500	252	244	0.0277778
39.510	242	237	0.0287274
39.520	247	232	0.0287274
39.530	249	230	0.0287274
39.540	243	230	0.0287274
39.550	242	232	0.0287274
39.560	240	236	0.0297265
39.570	245	239	0.0287274
39.580	247	240	0.0287274
39.590	241	238	0.0297265
39.600	233	232	0.0297265
39.610	219	226	0.0318878
39.620	220	219	0.0318878
39.630	217	214	0.0330579
39.640	224	211	0.0318878
39.650	198	211	0.0355999
39.660	211	212	0.0330579
39.670	216	216	0.0330579
39.680	212	222	0.0330579
39.690	219	230	0.0318878
39.700	225	242	0.0307787
39.710	241	255	0.0297265
39.720	267	270	0.0268745
39.730	271	283	0.0260146
39.740	268	291	0.0260146
39.750	276	293	0.0251953

39.760	263	287	0.0268745
39.770	263	277	0.0268745
39.780	247	266	0.0287274
39.790	246	257	0.0287274
39.800	247	250	0.0287274
39.810	246	245	0.0287274
39.820	244	242	0.0287274
39.830	228	240	0.0307787
39.840	236	238	0.0297265
39.850	239	237	0.0297265
39.860	241	237	0.0287274
39.870	248	237	0.0287274
39.880	234	237	0.0297265
39.890	244	238	0.0287274
39.900	237	240	0.0297265
39.910	246	243	0.0287274
39.920	255	247	0.0277778
39.930	252	251	0.0277778
39.940	247	255	0.0287274
39.950	268	258	0.0260146
39.960	260	260	0.0268745
39.970	257	260	0.0268745
39.980	266	258	0.0260146
39.990	251	254	0.0277778
40.000	242	248	0.0287274
40.010	249	241	0.0277778
40.020	235	234	0.0297265
40.030	228	227	0.0307787
40.040	215	221	0.0330579
40.050	212	214	0.0330579
40.060	201	209	0.0342936
40.070	200	203	0.0342936
40.080	196	198	0.0355999
40.090	182	193	0.0384468
40.100	189	189	0.0369822
40.110	186	186	0.0369822
40.120	178	183	0.0384468
40.130	174	181	0.0400000
40.140	174	179	0.0400000
40.150	167	178	0.0416493
40.160	179	177	0.0384468
40.170	174	177	0.0400000
40.180	168	178	0.0416493
40.190	182	179	0.0384468
40.200	180	181	0.0384468
40.210	178	183	0.0384468
40.220	187	187	0.0369822
40.230	197	191	0.0355999
40.240	200	197	0.0342936
40.250	207	203	0.0330579
40.260	212	211	0.0330579
40.270	226	221	0.0307787
40.280	237	233	0.0297265
40.290	246	245	0.0277778

40.300	259	259	0.0268745
40.310	264	271	0.0260146
40.320	266	281	0.0260146
40.330	273	287	0.0251953
40.340	285	287	0.0244141
40.350	281	281	0.0244141
40.360	259	272	0.0268745
40.370	260	260	0.0268745
40.380	241	247	0.0287274
40.390	233	236	0.0297265
40.400	226	226	0.0307787
40.410	214	218	0.0318878
40.420	204	212	0.0342936
40.430	204	208	0.0342936
40.440	208	205	0.0330579
40.450	205	205	0.0342936
40.460	216	206	0.0318878
40.470	217	210	0.0318878
40.480	224	216	0.0307787
40.490	236	224	0.0297265
40.500	250	236	0.0277778
40.510	259	250	0.0268745
40.520	259	267	0.0268745
40.530	276	284	0.0251953
40.540	293	298	0.0236686
40.550	285	305	0.0244141
40.560	281	302	0.0244141
40.570	279	290	0.0251953
40.580	280	274	0.0244141
40.590	255	257	0.0268745
40.600	235	242	0.0297265
40.610	234	230	0.0297265
40.620	227	221	0.0307787
40.630	217	216	0.0318878
40.640	212	213	0.0330579
40.650	219	212	0.0318878
40.660	222	213	0.0318878
40.670	221	216	0.0318878
40.680	227	220	0.0307787
40.690	233	225	0.0297265
40.700	245	228	0.0287274
40.710	248	228	0.0277778
40.720	232	225	0.0297265
40.730	220	220	0.0318878
40.740	223	213	0.0307787
40.750	199	206	0.0355999
40.760	204	201	0.0342936
40.770	203	196	0.0342936
40.780	193	192	0.0355999
40.790	187	189	0.0369822
40.800	190	186	0.0369822
40.810	190	183	0.0369822
40.820	179	180	0.0384468
40.830	175	176	0.0400000

40.840	182	173	0.0384468
40.850	174	170	0.0400000
40.860	165	167	0.0416493
40.870	160	164	0.0434028
40.880	162	161	0.0434028
40.890	162	159	0.0434028
40.900	160	157	0.0434028
40.910	158	155	0.0434028
40.920	161	153	0.0434028
40.930	144	152	0.0472590
40.940	146	151	0.0472590
40.950	149	150	0.0472590
40.960	153	150	0.0452694
40.970	153	149	0.0452694
40.980	148	149	0.0472590
40.990	151	148	0.0452694
41.000	147	148	0.0472590
41.010	146	148	0.0472590
41.020	147	148	0.0472590
41.030	140	149	0.0493827
41.040	146	149	0.0472590
41.050	151	150	0.0452694
41.060	153	150	0.0452694
41.070	153	151	0.0452694
41.080	149	152	0.0452694
41.090	155	154	0.0452694
41.100	150	155	0.0452694
41.110	153	157	0.0452694
41.120	159	159	0.0434028
41.130	167	161	0.0416493
41.140	156	164	0.0434028
41.150	166	167	0.0416493
41.160	169	170	0.0416493
41.170	171	174	0.0400000
41.180	169	178	0.0400000
41.190	178	183	0.0384468
41.200	191	189	0.0355999
41.210	196	196	0.0355999
41.220	203	203	0.0342936
41.230	207	210	0.0330579
41.240	221	218	0.0307787
41.250	230	227	0.0297265
41.260	236	236	0.0287274
41.270	249	246	0.0277778
41.280	251	255	0.0268745
41.290	272	263	0.0251953
41.300	284	269	0.0244141
41.310	274	273	0.0251953
41.320	273	275	0.0251953
41.330	286	273	0.0236686
41.340	276	268	0.0251953
41.350	278	260	0.0244141
41.360	256	252	0.0268745
41.370	251	243	0.0277778

41.380	239	234	0.0287274
41.390	235	226	0.0287274
41.400	223	218	0.0307787
41.410	212	212	0.0318878
41.420	209	206	0.0330579
41.430	198	202	0.0342936
41.440	198	199	0.0342936
41.450	194	196	0.0355999
41.460	192	195	0.0355999
41.470	187	195	0.0369822
41.480	186	195	0.0369822
41.490	205	196	0.0330579
41.500	189	198	0.0355999
41.510	196	202	0.0342936
41.520	198	206	0.0342936
41.530	207	211	0.0330579
41.540	217	218	0.0318878
41.550	227	225	0.0297265
41.560	237	234	0.0287274
41.570	239	245	0.0287274
41.580	262	256	0.0260146
41.590	282	268	0.0244141
41.600	277	280	0.0244141
41.610	294	291	0.0229568
41.620	310	301	0.0222767
41.630	313	308	0.0216263
41.640	324	311	0.0210040
41.650	309	310	0.0222767
41.660	315	303	0.0216263
41.670	301	293	0.0229568
41.680	288	280	0.0236686
41.690	274	266	0.0251953
41.700	244	253	0.0277778
41.710	238	240	0.0287274
41.720	233	230	0.0297265
41.730	211	221	0.0330579
41.740	209	213	0.0330579
41.750	207	207	0.0330579
41.760	214	203	0.0318878
41.770	191	199	0.0355999
41.780	183	197	0.0369822
41.790	197	196	0.0342936
41.800	194	196	0.0355999
41.810	193	197	0.0355999
41.820	189	200	0.0355999
41.830	197	204	0.0342936
41.840	204	209	0.0330579
41.850	202	216	0.0342936
41.860	219	225	0.0307787
41.870	227	234	0.0297265
41.880	228	244	0.0297265
41.890	243	254	0.0277778
41.900	249	261	0.0268745
41.910	259	265	0.0260146

41.920	245	265	0.0277778
41.930	248	259	0.0277778
41.940	239	251	0.0287274
41.950	223	239	0.0307787
41.960	220	227	0.0307787
41.970	212	216	0.0318878
41.980	206	205	0.0330579
41.990	196	196	0.0342936
42.000	196	188	0.0342936
42.010	192	181	0.0355999
42.020	171	176	0.0400000
42.030	177	171	0.0384468
42.040	166	167	0.0400000
42.050	164	164	0.0416493
42.060	162	162	0.0416493
42.070	162	160	0.0416493
42.080	163	158	0.0416493
42.090	153	158	0.0434028
42.100	157	157	0.0434028
42.110	155	157	0.0434028
42.120	161	158	0.0416493
42.130	154	159	0.0434028
42.140	169	161	0.0400000
42.150	160	163	0.0416493
42.160	174	166	0.0384468
42.170	170	170	0.0400000
42.180	168	174	0.0400000
42.190	182	179	0.0369822
42.200	182	184	0.0369822
42.210	191	189	0.0355999
42.220	195	193	0.0342936
42.230	191	197	0.0355999
42.240	202	200	0.0330579
42.250	206	202	0.0330579
42.260	198	203	0.0342936
42.270	200	203	0.0330579
42.280	201	201	0.0330579
42.290	183	196	0.0369822
42.300	197	190	0.0342936
42.310	181	184	0.0369822
42.320	179	179	0.0369822
42.330	180	175	0.0369822
42.340	179	172	0.0369822
42.350	172	171	0.0384468
42.360	178	171	0.0369822
42.370	177	173	0.0384468
42.380	179	177	0.0369822
42.390	188	182	0.0355999
42.400	183	188	0.0369822
42.410	197	194	0.0342936
42.420	182	199	0.0369822
42.430	190	202	0.0355999
42.440	191	201	0.0355999
42.450	186	197	0.0355999

42.460	183	190	0.0369822
42.470	178	181	0.0369822
42.480	173	173	0.0384468
42.490	166	166	0.0400000
42.500	161	160	0.0416493
42.510	152	155	0.0434028
42.520	151	151	0.0452694
42.530	141	148	0.0472590
42.540	140	145	0.0472590
42.550	144	143	0.0472590
42.560	146	141	0.0452694
42.570	136	139	0.0493827
42.580	147	138	0.0452694
42.590	139	137	0.0493827
42.600	141	136	0.0472590
42.610	139	136	0.0493827
42.620	131	135	0.0516529
42.630	135	135	0.0493827
42.640	136	134	0.0493827
42.650	135	134	0.0493827
42.660	139	134	0.0472590
42.670	136	134	0.0493827
42.680	136	134	0.0493827
42.690	135	134	0.0493827
42.700	135	134	0.0493827
42.710	130	134	0.0516529
42.720	135	134	0.0493827
42.730	135	134	0.0493827
42.740	142	134	0.0472590
42.750	138	135	0.0493827
42.760	134	136	0.0493827
42.770	136	136	0.0493827
42.780	133	138	0.0516529
42.790	143	139	0.0472590
42.800	139	140	0.0472590
42.810	152	142	0.0434028
42.820	157	144	0.0434028
42.830	153	146	0.0434028
42.840	150	149	0.0452694
42.850	160	151	0.0416493
42.860	164	153	0.0416493
42.870	163	155	0.0416493
42.880	158	157	0.0416493
42.890	161	157	0.0416493
42.900	156	157	0.0434028
42.910	160	157	0.0416493
42.920	154	156	0.0434028
42.930	155	156	0.0434028
42.940	155	155	0.0434028
42.950	162	155	0.0416493
42.960	150	156	0.0452694
42.970	159	157	0.0416493
42.980	157	159	0.0416493
42.990	160	162	0.0416493

43.000	165	166	0.0400000
43.010	172	171	0.0384468
43.020	172	176	0.0384468
43.030	174	181	0.0384468
43.040	172	185	0.0384468
43.050	175	188	0.0384468
43.060	179	188	0.0369822
43.070	185	187	0.0355999
43.080	183	185	0.0355999
43.090	191	183	0.0342936
43.100	177	182	0.0369822
43.110	187	182	0.0355999
43.120	184	181	0.0355999
43.130	178	181	0.0369822
43.140	187	180	0.0355999
43.150	176	179	0.0369822
43.160	188	177	0.0355999
43.170	177	174	0.0369822
43.180	179	171	0.0369822
43.190	168	169	0.0400000
43.200	174	166	0.0384468
43.210	162	164	0.0416493
43.220	163	162	0.0400000
43.230	152	161	0.0434028
43.240	153	161	0.0434028
43.250	155	161	0.0434028
43.260	155	161	0.0434028
43.270	157	160	0.0416493
43.280	154	160	0.0434028
43.290	157	160	0.0416493
43.300	158	160	0.0416493
43.310	156	159	0.0434028
43.320	158	158	0.0416493
43.330	160	158	0.0416493
43.340	156	157	0.0416493
43.350	158	157	0.0416493
43.360	159	157	0.0416493
43.370	160	158	0.0416493
43.380	157	159	0.0416493
43.390	156	161	0.0416493
43.400	170	164	0.0384468
43.410	171	167	0.0384468
43.420	184	172	0.0355999
43.430	192	177	0.0342936
43.440	185	184	0.0355999
43.450	206	193	0.0318878
43.460	211	202	0.0318878
43.470	217	213	0.0307787
43.480	226	225	0.0297265
43.490	235	235	0.0277778
43.500	247	242	0.0268745
43.510	243	246	0.0268745
43.520	245	247	0.0268745
43.530	240	248	0.0277778

43.540	252	250	0.0260146
43.550	271	257	0.0244141
43.560	281	266	0.0236686
43.570	285	278	0.0229568
43.580	283	289	0.0229568
43.590	296	295	0.0222767
43.600	306	292	0.0216263
43.610	284	281	0.0229568
43.620	266	264	0.0244141
43.630	231	245	0.0287274
43.640	222	227	0.0297265
43.650	209	212	0.0318878
43.660	199	200	0.0330579
43.670	198	190	0.0330579
43.680	181	182	0.0369822
43.690	182	176	0.0355999
43.700	172	171	0.0384468
43.710	169	166	0.0384468
43.720	169	162	0.0384468
43.730	162	159	0.0400000
43.740	156	156	0.0416493
43.750	149	153	0.0434028
43.760	157	151	0.0416493
43.770	152	148	0.0434028
43.780	139	146	0.0472590
43.790	149	144	0.0434028
43.800	145	143	0.0452694
43.810	143	141	0.0452694
43.820	138	140	0.0472590
43.830	143	139	0.0452694
43.840	142	138	0.0452694
43.850	140	137	0.0472590
43.860	134	137	0.0493827
43.870	149	137	0.0434028
43.880	143	136	0.0452694
43.890	145	137	0.0452694
43.900	142	137	0.0452694
43.910	144	138	0.0452694
43.920	144	138	0.0452694
43.930	135	140	0.0472590
43.940	144	141	0.0452694
43.950	145	142	0.0452694
43.960	143	144	0.0452694
43.970	147	146	0.0434028
43.980	157	148	0.0416493
43.990	155	150	0.0416493
44.000	158	152	0.0416493
44.010	154	153	0.0416493
44.020	152	155	0.0434028
44.030	154	157	0.0416493
44.040	163	160	0.0400000
44.050	159	163	0.0400000
44.060	167	167	0.0384468
44.070	173	172	0.0369822

44.080	176	177	0.0369822
44.090	182	182	0.0355999
44.100	170	184	0.0384468
44.110	169	182	0.0384468
44.120	163	177	0.0400000
44.130	164	171	0.0400000
44.140	171	165	0.0384468
44.150	161	159	0.0400000
44.160	163	155	0.0400000
44.170	157	152	0.0416493
44.180	156	151	0.0416493
44.190	143	149	0.0452694
44.200	139	149	0.0472590
44.210	142	149	0.0452694
44.220	151	149	0.0434028
44.230	146	149	0.0452694
44.240	135	150	0.0472590
44.250	145	151	0.0452694
44.260	149	152	0.0434028
44.270	153	152	0.0416493
44.280	152	153	0.0434028
44.290	147	155	0.0452694
44.300	150	157	0.0434028
44.310	158	159	0.0416493
44.320	168	162	0.0384468
44.330	174	166	0.0369822
44.340	166	170	0.0384468
44.350	174	175	0.0369822
44.360	176	181	0.0369822
44.370	182	187	0.0355999
44.380	173	192	0.0369822
44.390	185	196	0.0355999
44.400	184	198	0.0355999
44.410	189	196	0.0342936
44.420	193	192	0.0330579
44.430	182	188	0.0355999
44.440	180	183	0.0355999
44.450	183	179	0.0355999
44.460	171	177	0.0384468
44.470	170	175	0.0384468
44.480	172	173	0.0369822
44.490	163	172	0.0400000
44.500	169	172	0.0384468
44.510	172	172	0.0369822
44.520	170	173	0.0384468
44.530	171	174	0.0384468
44.540	178	176	0.0355999
44.550	184	179	0.0355999
44.560	189	183	0.0342936
44.570	188	188	0.0342936
44.580	192	194	0.0330579
44.590	209	202	0.0307787
44.600	213	210	0.0307787
44.610	221	218	0.0287274

44.620	222	226	0.0287274
44.630	228	232	0.0277778
44.640	236	235	0.0268745
44.650	229	236	0.0277778
44.660	237	232	0.0268745
44.670	220	226	0.0287274
44.680	223	218	0.0287274
44.690	213	209	0.0297265
44.700	196	200	0.0330579
44.710	191	191	0.0330579
44.720	178	183	0.0355999
44.730	171	176	0.0369822
44.740	182	170	0.0355999
44.750	171	165	0.0369822
44.760	166	161	0.0384468
44.770	160	157	0.0400000
44.780	158	154	0.0400000
44.790	155	152	0.0416493
44.800	154	151	0.0416493
44.810	151	150	0.0416493
44.820	148	149	0.0434028
44.830	151	149	0.0416493
44.840	152	150	0.0416493
44.850	157	151	0.0400000
44.860	157	152	0.0400000
44.870	156	153	0.0416493
44.880	158	154	0.0400000
44.890	163	155	0.0384468
44.900	148	156	0.0434028
44.910	160	157	0.0400000
44.920	157	158	0.0400000
44.930	155	158	0.0416493
44.940	167	158	0.0384468
44.950	163	157	0.0384468
44.960	163	157	0.0384468
44.970	166	156	0.0384468
44.980	152	154	0.0416493
44.990	154	153	0.0416493
45.000	144	151	0.0434028

#===END

data_As24

5. CHEMICAL DATA

_chemical_name_common	'calcium arsenic phosphorus hydroxylapatite'
_chemical_formula_structural	'Ca5 (P0.76 As0.24 O4)3 OH'
_chemical_formula_sum	'As0.72 Ca5 H O13 P2.28'
_chemical_formula_weight	533.2

loop_
_atom_type_symbol
_atom_type_description

```

_atom_type_scatter_dispersion_real
_atom_type_scatter_dispersion_imag
_atom_type_scatter_source
_atom_type_scatter_length_neutron    # include if applicable
?   ?   ?   ?   ?   ?

#=====

# 6. POWDER SPECIMEN AND CRYSTAL DATA

_space_group_crystal_system    hexagonal
_space_group_name_H-M_alt      'P63/m'

loop_
  _symmetry_equiv_pos_site_id
  _symmetry_equiv_pos_as_xyz    #<--must include 'x,y,z'
1 '-x, -y, -z'
2 '-x, -y, z+1/2'
3 '-x+y, -x, -z+1/2'
4 '-x+y, -x, z'
5 '-y, x-y, -z+1/2'
6 '-y, x-y, z'
7 'y, -x+y, -z'
8 'y, -x+y, z+1/2'
9 'x-y, x, -z'
10 'x-y, x, z+1/2'
11 'x, y, -z+1/2'
12 'x, y, z'

_cell_length_a 9.5075(3)
_cell_length_b 9.5075(3)
_cell_length_c 6.9187(2)
_cell_angle_alpha 90
_cell_angle_beta 90
_cell_angle_gamma 120
_cell_volume 541.61(3)
_cell_measurement_temperature 293
_cell_special_details
; ?
;

# The next three fields give the specimen dimensions in mm. The equatorial
# plane contains the incident and diffracted beam.

_pd_spec_size_axial      8    # perpendicular to
                           # equatorial plane

_pd_spec_size_equat      1    # parallel to
                           # scattering vector
                           # in transmission

_pd_spec_size_thick      1    # parallel to
                           # scattering vector
                           # in reflection

```

The next five fields are character fields that describe the specimen.

```
_pd_spec_mounting          # This field should be
                           # used to give details of the
                           # container.
;
glass capillary(nominal diameter 1mm)
;
_pd_spec_mount_mode        transmission    # options are 'reflection'
                           # or 'transmission'

_pd_spec_shape             cylinder      # options are 'cylinder'
                           # 'flat_sheet' or 'irregular'

_pd_char_particle_morphology ?
_pd_char_colour            white        # use ICDD colour descriptions
```

The next four fields are normally only needed for transmission experiments.

```
_exptl_absorpt_correction_type  none    # include if applicable
```

#=====

7. EXPERIMENTAL DATA

```
_exptl_special_details
; ?
;

_pd_instr_location
;
X16C, National Synchrotron Light Source, Brookhaven National Laboratory
;
_pd_calibration_special_details    # description of the method used
                                   # to calibrate the instrument
;
NIST standard reference material 1976(sintered plate of Al2O3)
7 isolated reflections were used to calibrate wavelength and detector zero.
;

_diffrn_ambient_temperature      293
_diffrn_source                   synchrotron
_diffrn_source_target            ?
_diffrn_source_type              ?
_diffrn_radiation_type           synchrotron
_diffrn_measurement_device_type  'Huber diffractometer'
_diffrn_detector                 'NaI scintillation counter'
_diffrn_detector_type            ?    # make or model of detector

_pd_meas_scan_method            step  # options are 'step', 'cont',
                                   # 'tof', 'fixed' or
                                   # 'disp' (= dispersive)

_pd_meas_special_details
```

; ?
;
;

The following six items are used for angular dispersive measurements only.

_diffrn_radiation_wavelength 0.69850
_diffrn_radiation_monochromator 'Si(111) double reflection monochromator'

The following four items give details of the measured (not processed)
powder pattern. Angles are in degrees.

_pd_meas_number_of_points 4301
_pd_meas_2theta_range_min 2.00
_pd_meas_2theta_range_max 45.00
_pd_meas_2theta_range_inc .01

#=====

8. REFINEMENT DATA

Use the next field to give any special details about the fitting of the
powder pattern.

_pd_proc_ls_special_details
;
Rietveld refinement of all structural parameters.
H atom omitted
One common thermal parameter for all atoms
;

The next three items are given as text.

_pd_proc_ls_profile_function
;
Simple_Axial_Model function in TOPAS
Anisotropic strain broadening 3 parameters refined
;
_pd_proc_ls_background_function
;
Chebyshev polynomial of 7th order plus 1/2theta
;
_pd_proc_ls_pref_orient_corr 'none'

_pd_proc_ls_prof_R_factor 0.05495
_pd_proc_ls_prof_wR_factor 0.06962
_pd_proc_ls_prof_wR_expected 0.05179
_refine_ls_R_I_factor ?
_refine_ls_R_Fsqd_factor ?
_refine_ls_R_factor_all ?

_refine_special_details
; ?
;

```

_refine_ls_matrix_type      ?
_refine_ls_weighting_scheme sigma # options are 'sigma' (based on measured su's)
                             # or 'calc' (calculated weights)
_refine_ls_weighting_details '1/(sigma*sigma)'
_refine_ls_hydrogen_treatment none
_refine_ls_extinction_method 'none'
_refine_ls_extinction_coef   ?
_refine_ls_number_parameters 34
_refine_ls_number_restraints ?
_refine_ls_number_constraints ?

```

The following item is the same as CHI, the square root of 'CHI squared'

```
_refine_ls_goodness_of_fit_all 1.344
```

```

_refine_ls_restrained_S_all    ?
_refine_ls_shift/su_max        ?
_refine_ls_shift/su_mean       ?

```

The following four items apply to angular dispersive measurements.

2theta minimum, maximum and increment (in degrees) are for the

intensities used in the refinement.

```

_pd_proc_2theta_range_min      2.0
_pd_proc_2theta_range_max      45.0
_pd_proc_2theta_range_inc      0.01
_pd_proc_wavelength            0.69850

```

Each refinement must be accompanied by a listing of the powder data

in CIF format. Each listing should be sent as a separate file consisting

of one data block containing a single powder profile. The value of

`_pd_block_diffraction_id` is used to associate each refinement with

its corresponding powder profile, since it must match the value

of `_pd_block_id` in the file containing the powder data. A template

for supplying powder data in CIF format is available by ftp at

<ftp://ftp.iucr.org/pub/rietdataform.cif> and an example is given

at <ftp://ftp.iucr.org/pub/rietdataxml.cif>.

```
_pd_block_diffraction_id      HAP_As24_profile
```

Give appropriate details in the next two text fields.

```

_pd_proc_info_excluded_regions 'none'
_pd_proc_info_data_reduction    ?

```

The following items are used to identify the programs used.

```

_computing_data_collection      SPEC
_computing_cell_refinement      TOPAS
_computing_data_reduction       ?
_computing_structure_solution   ?
_computing_structure_refinement TOPAS
_computing_molecular_graphics   ?

```

_computing_publication_material ?

#=====

9. ATOMIC COORDINATES AND DISPLACEMENT PARAMETERS

```
loop_
  _atom_site_label
  _atom_site_type_symbol
  _atom_site_symmetry_multiplicity
  _atom_site_fract_x
  _atom_site_fract_y
  _atom_site_fract_z
  _atom_site_occupancy
  _atom_site_B_iso_or_equiv
O1 O 6 0.32208(73) 0.48537(71) 0.25 1 0.826(28)
O2 O 6 0.58686(72) 0.46258(76) 0.25 1 0.826(28)
O3 O 12 0.34056(50) 0.25558(55) 0.06641(55) 1 0.826(28)
As1 As 6 0.39641(28) 0.36822(27) 0.25 0.2423(37) 0.826(28)
P1 P 6 0.39641(28) 0.36822(27) 0.25 0.7577(37) 0.826(28)
Ca1 Ca 4 0.3333333 0.6666667 0.00150(48) 1 0.826(28)
Ca2 Ca 6 0.24615(26) 0.99407(31) 0.25 1 0.826(28)
O4 O 4 0 0 0.6946(17) 0.5 0.826(28)
```

```
#####
### CIF submission form for powder diffraction data (IUCr journals) ###
### Version 11 February 2005 ###
#####
```

This is an electronic "form" for submitting powder diffraction data in CIF
format to an IUCr journal. The data for each powder profile should be sent
as a separate file consisting of one data block. The value of _pd_block_id
is used to associate each powder profile with a Rietveld refinement, since
it must match the value of _pd_block_diffraction_id in the CIF used to
report the results of the refinement. The current version of the powder
CIF dictionary, which contains definitions of the terms starting _pd_,
may be obtained from <http://www.iucr.org/iucr-top/cif/pd/index.html>.
Note that the query marks '?' are significant as placeholders, and should
not be deleted where a data item is not given, UNLESS the accompanying data
name is also deleted. Lines should not exceed 80 characters in length. The
comments following a hash symbol '#' may be deleted if wished.

data_HAP_As24_pattern

_pd_block_id HAP_As24_pattern

```
loop_
  _pd_proc_2theta_corrected
  _pd_proc_intensity_net
```

	_pd_calc_intensity_net		
	_pd_proc_ls_weight		
2.000	695	675	0.0012226
2.010	718	670	0.0011809
2.020	728	666	0.0011648
2.030	753	661	0.0011261
2.040	678	656	0.0012486
2.050	701	652	0.0012140
2.060	682	647	0.0012486
2.070	729	643	0.0011648
2.080	708	638	0.0011973
2.090	655	634	0.0012939
2.100	655	630	0.0012939
2.110	666	625	0.0012755
2.120	644	621	0.0013223
2.130	637	617	0.0013320
2.140	721	613	0.0011809
2.150	630	609	0.0013516
2.160	642	605	0.0013223
2.170	620	601	0.0013717
2.180	623	597	0.0013616
2.190	656	593	0.0012939
2.200	607	589	0.0014027
2.210	604	585	0.0014027
2.220	541	581	0.0015747
2.230	566	577	0.0015023
2.240	588	574	0.0014457
2.250	613	570	0.0013820
2.260	626	566	0.0013616
2.270	574	563	0.0014793
2.280	582	559	0.0014568
2.290	575	556	0.0014793
2.300	580	552	0.0014680
2.310	548	549	0.0015500
2.320	596	545	0.0014240
2.330	564	542	0.0015023
2.340	531	539	0.0016000
2.350	522	535	0.0016259
2.360	500	532	0.0016935
2.370	528	529	0.0016129
2.380	514	526	0.0016525
2.390	491	522	0.0017217
2.400	536	519	0.0015873
2.410	531	516	0.0016000
2.420	526	513	0.0016129
2.430	554	510	0.0015379
2.440	509	507	0.0016660
2.450	483	504	0.0017507
2.460	510	501	0.0016660
2.470	482	498	0.0017654
2.480	477	495	0.0017803
2.490	489	492	0.0017361
2.500	451	489	0.0018740
2.510	503	487	0.0016935

2.520	498	484	0.0017075
2.530	441	481	0.0019237
2.540	451	478	0.0018740
2.550	483	476	0.0017654
2.560	488	473	0.0017361
2.570	443	470	0.0019237
2.580	437	468	0.0019407
2.590	468	465	0.0018108
2.600	449	462	0.0018904
2.610	469	460	0.0018108
2.620	449	457	0.0018904
2.630	421	455	0.0020109
2.640	449	452	0.0018904
2.650	431	450	0.0019753
2.660	432	447	0.0019579
2.670	430	445	0.0019753
2.680	433	443	0.0019579
2.690	471	440	0.0017955
2.700	397	438	0.0021433
2.710	445	436	0.0019069
2.720	413	433	0.0020475
2.730	446	431	0.0019069
2.740	419	429	0.0020291
2.750	394	426	0.0021633
2.760	406	424	0.0020850
2.770	425	422	0.0019930
2.780	410	420	0.0020661
2.790	407	418	0.0020850
2.800	384	416	0.0022250
2.810	352	413	0.0024267
2.820	417	411	0.0020475
2.830	372	409	0.0022893
2.840	383	407	0.0022041
2.850	407	405	0.0020850
2.860	468	403	0.0018108
2.870	378	401	0.0022461
2.880	386	399	0.0022041
2.890	389	397	0.0021836
2.900	372	395	0.0022893
2.910	374	393	0.0022676
2.920	401	391	0.0021236
2.930	385	389	0.0022041
2.940	349	388	0.0024267
2.950	383	386	0.0022250
2.960	365	384	0.0023338
2.970	386	382	0.0022041
2.980	400	380	0.0021236
2.990	357	378	0.0023795
3.000	338	377	0.0025252
3.010	402	375	0.0021236
3.020	355	373	0.0024029
3.030	368	371	0.0023114
3.040	349	370	0.0024267
3.050	373	368	0.0022893

3.060	362	366	0.0023565
3.070	342	365	0.0024752
3.080	351	363	0.0024267
3.090	350	361	0.0024267
3.100	320	360	0.0026570
3.110	300	358	0.0028293
3.120	388	356	0.0022041
3.130	342	355	0.0025000
3.140	355	353	0.0024029
3.150	328	352	0.0026031
3.160	342	350	0.0025000
3.170	340	349	0.0025000
3.180	314	347	0.0027127
3.190	384	346	0.0022041
3.200	315	344	0.0027127
3.210	334	343	0.0025508
3.220	351	341	0.0024267
3.230	309	340	0.0027412
3.240	360	338	0.0023565
3.250	304	337	0.0027995
3.260	334	335	0.0025508
3.270	331	334	0.0025767
3.280	300	333	0.0028293
3.290	324	331	0.0026298
3.300	323	330	0.0026298
3.310	326	328	0.0026031
3.320	342	327	0.0025000
3.330	322	326	0.0026570
3.340	293	324	0.0029218
3.350	363	323	0.0023565
3.360	309	322	0.0027412
3.370	342	320	0.0025000
3.380	295	319	0.0028905
3.390	330	318	0.0017955
3.400	302	317	0.0019579
3.410	309	315	0.0019069
3.420	284	314	0.0020850
3.430	326	313	0.0018108
3.440	308	312	0.0019237
3.450	316	311	0.0018740
3.460	291	309	0.0020291
3.470	316	308	0.0018740
3.480	314	307	0.0018740
3.490	316	306	0.0018740
3.500	277	305	0.0021433
3.510	291	304	0.0020291
3.520	306	302	0.0019407
3.530	289	301	0.0020475
3.540	308	300	0.0019237
3.550	284	299	0.0020850
3.560	301	298	0.0019579
3.570	282	297	0.0020850
3.580	293	296	0.0020291
3.590	301	295	0.0019579

3.600	310	294	0.0019069
3.610	300	293	0.0019753
3.620	288	292	0.0020475
3.630	305	291	0.0019407
3.640	305	290	0.0019407
3.650	350	289	0.0016797
3.660	261	288	0.0022676
3.670	332	287	0.0017803
3.680	288	286	0.0020475
3.690	289	285	0.0020475
3.700	293	285	0.0020109
3.710	257	284	0.0022893
3.720	303	283	0.0019407
3.730	268	282	0.0022041
3.740	291	281	0.0020291
3.750	318	280	0.0018579
3.760	278	279	0.0021236
3.770	222	278	0.0026570
3.780	305	277	0.0019407
3.790	281	276	0.0021042
3.800	283	275	0.0020850
3.810	252	275	0.0023338
3.820	279	274	0.0021042
3.830	239	273	0.0024752
3.840	276	272	0.0021433
3.850	268	271	0.0022041
3.860	259	270	0.0022676
3.870	263	270	0.0022461
3.880	283	269	0.0020850
3.890	293	268	0.0020109
3.900	253	267	0.0023338
3.910	249	266	0.0023795
3.920	302	266	0.0019579
3.930	276	265	0.0021433
3.940	275	264	0.0021433
3.950	275	263	0.0021433
3.960	292	263	0.0020291
3.970	297	262	0.0019930
3.980	276	261	0.0021236
3.990	251	260	0.0023565
4.000	277	260	0.0021236
4.010	258	259	0.0022893
4.020	243	258	0.0024267
4.030	260	258	0.0022676
4.040	255	257	0.0023114
4.050	253	256	0.0023338
4.060	239	256	0.0024507
4.070	256	255	0.0022893
4.080	250	254	0.0023565
4.090	260	254	0.0022676
4.100	224	253	0.0026298
4.110	224	253	0.0026298
4.120	226	252	0.0026031
4.130	307	251	0.0019237

4.140	253	251	0.0023338
4.150	214	250	0.0027412
4.160	258	250	0.0022893
4.170	240	249	0.0024507
4.180	260	249	0.0022676
4.190	255	248	0.0023114
4.200	274	248	0.0021433
4.210	260	247	0.0022676
4.220	260	247	0.0022676
4.230	250	246	0.0023565
4.240	243	246	0.0024267
4.250	242	245	0.0024267
4.260	286	245	0.0020475
4.270	260	244	0.0022461
4.280	255	244	0.0023114
4.290	226	244	0.0026031
4.300	257	243	0.0022893
4.310	262	243	0.0022461
4.320	237	243	0.0024752
4.330	267	242	0.0022041
4.340	206	242	0.0028597
4.350	257	242	0.0022893
4.360	269	242	0.0021836
4.370	239	241	0.0024507
4.380	240	241	0.0024507
4.390	252	241	0.0023338
4.400	217	241	0.0027127
4.410	251	241	0.0023338
4.420	271	241	0.0021633
4.430	259	241	0.0022676
4.440	244	241	0.0024029
4.450	249	242	0.0023565
4.460	268	242	0.0021836
4.470	239	243	0.0024507
4.480	275	243	0.0021433
4.490	247	244	0.0023565
4.500	207	245	0.0028293
4.510	236	246	0.0024752
4.520	272	248	0.0021633
4.530	261	250	0.0022461
4.540	270	252	0.0021633
4.550	239	255	0.0024507
4.560	289	259	0.0020291
4.570	308	264	0.0019069
4.580	294	269	0.0019930
4.590	272	275	0.0021433
4.600	325	282	0.0017955
4.610	303	290	0.0019407
4.620	323	298	0.0018108
4.630	310	307	0.0018904
4.640	366	317	0.0016000
4.650	323	327	0.0018108
4.660	382	338	0.0015379
4.670	382	351	0.0015259

4.680	419	364	0.0013923
4.690	382	379	0.0015259
4.700	418	395	0.0014027
4.710	401	412	0.0014568
4.720	420	432	0.0013923
4.730	462	453	0.0012664
4.740	502	477	0.0011648
4.750	548	503	0.0010680
4.760	558	533	0.0010473
4.770	523	566	0.0011186
4.780	643	604	0.0009072
4.790	588	646	0.0009951
4.800	641	693	0.0009127
4.810	665	745	0.0008753
4.820	719	798	0.0008117
4.830	738	845	0.0007890
4.840	753	870	0.0007759
4.850	676	854	0.0008651
4.860	623	788	0.0009352
4.870	594	689	0.0009827
4.880	537	588	0.0010821
4.890	456	503	0.0012755
4.900	384	438	0.0015140
4.910	354	390	0.0016525
4.920	326	355	0.0017803
4.930	369	329	0.0015747
4.940	314	308	0.0018579
4.950	265	293	0.0022041
4.960	253	280	0.0023114
4.970	249	270	0.0023338
4.980	222	262	0.0026298
4.990	249	256	0.0023338
5.000	242	250	0.0024029
5.010	230	245	0.0025252
5.020	227	241	0.0025767
5.030	225	237	0.0025767
5.040	232	234	0.0025000
5.050	229	232	0.0025508
5.060	241	229	0.0024267
5.070	206	227	0.0028293
5.080	215	225	0.0027127
5.090	227	223	0.0025508
5.100	251	222	0.0023114
5.110	239	220	0.0024267
5.120	222	219	0.0026298
5.130	217	218	0.0026846
5.140	181	217	0.0032283
5.150	222	216	0.0026298
5.160	232	215	0.0025000
5.170	200	214	0.0029218
5.180	184	213	0.0031562
5.190	234	212	0.0024752
5.200	236	211	0.0024752
5.210	184	211	0.0031562

5.220	194	210	0.0029861
5.230	219	209	0.0026570
5.240	188	209	0.0030864
5.250	208	208	0.0027995
5.260	210	208	0.0027701
5.270	231	207	0.0025252
5.280	231	207	0.0025252
5.290	184	206	0.0031562
5.300	207	206	0.0027995
5.310	188	205	0.0030864
5.320	210	205	0.0027701
5.330	212	204	0.0027412
5.340	210	204	0.0027701
5.350	195	204	0.0029861
5.360	212	203	0.0027412
5.370	212	203	0.0027412
5.380	203	203	0.0028597
5.390	195	202	0.0029861
5.400	181	202	0.0031919
5.410	202	202	0.0028905
5.420	226	201	0.0025767
5.430	193	201	0.0030190
5.440	214	201	0.0027127
5.450	212	201	0.0027412
5.460	184	200	0.0031562
5.470	191	200	0.0030524
5.480	179	200	0.0032283
5.490	171	199	0.0034199
5.500	217	199	0.0026846
5.510	195	199	0.0029861
5.520	184	199	0.0031562
5.530	210	199	0.0027701
5.540	205	198	0.0028293
5.550	245	198	0.0023795
5.560	200	198	0.0029218
5.570	176	198	0.0033029
5.580	220	198	0.0026298
5.590	220	197	0.0026298
5.600	179	197	0.0032283
5.610	177	197	0.0032653
5.620	188	197	0.0030864
5.630	184	197	0.0031562
5.640	232	196	0.0025000
5.650	234	196	0.0024752
5.660	210	196	0.0027701
5.670	181	196	0.0032283
5.680	210	196	0.0027701
5.690	205	196	0.0028293
5.700	224	195	0.0026031
5.710	198	195	0.0029218
5.720	164	195	0.0035431
5.730	198	195	0.0029218
5.740	181	195	0.0032283
5.750	196	195	0.0029537

5.760	200	195	0.0029218
5.770	200	195	0.0029218
5.780	201	194	0.0028905
5.790	174	194	0.0033412
5.800	191	194	0.0030524
5.810	182	194	0.0031919
5.820	189	194	0.0030864
5.830	194	194	0.0029861
5.840	167	194	0.0035013
5.850	163	194	0.0035431
5.860	234	194	0.0024752
5.870	201	193	0.0028905
5.880	158	193	0.0036731
5.890	198	193	0.0029537
5.900	213	193	0.0027127
5.910	210	193	0.0027701
5.920	205	193	0.0028293
5.930	194	193	0.0029861
5.940	199	193	0.0029218
5.950	210	193	0.0027701
5.960	201	192	0.0028905
5.970	167	192	0.0035013
5.980	191	192	0.0030524
5.990	206	192	0.0028293
6.000	194	192	0.0029861
6.010	203	192	0.0028597
6.020	201	192	0.0028905
6.030	192	191	0.0030190
6.040	213	191	0.0027412
6.050	220	191	0.0026570
6.060	163	191	0.0035856
6.070	198	191	0.0029537
6.080	213	191	0.0027412
6.090	206	191	0.0028293
6.100	172	191	0.0033802
6.110	155	191	0.0037638
6.120	227	191	0.0025767
6.130	173	191	0.0033412
6.140	203	191	0.0028597
6.150	206	191	0.0028293
6.160	199	191	0.0029218
6.170	192	191	0.0030190
6.180	201	191	0.0028905
6.190	242	191	0.0024029
6.200	208	191	0.0027995
6.210	165	191	0.0035431
6.220	196	191	0.0029861
6.230	221	191	0.0026298
6.240	194	191	0.0030190
6.250	199	191	0.0029218
6.260	178	191	0.0032653
6.270	196	191	0.0029861
6.280	192	191	0.0030190
6.290	208	191	0.0027995

6.300	182	191	0.0031919
6.310	185	191	0.0031562
6.320	189	191	0.0030864
6.330	185	191	0.0031562
6.340	204	191	0.0028597
6.350	196	191	0.0029861
6.360	192	191	0.0030524
6.370	190	191	0.0030524
6.380	197	191	0.0029537
6.390	207	191	0.0027995
6.400	202	192	0.0028905
6.410	201	192	0.0029218
6.420	182	192	0.0032283
6.430	219	192	0.0026570
6.440	195	192	0.0029861
6.450	224	192	0.0026031
6.460	189	192	0.0030864
6.470	218	192	0.0026846
6.480	209	192	0.0027995
6.490	154	192	0.0038104
6.500	224	192	0.0026031
6.510	219	192	0.0026570
6.520	190	192	0.0030864
6.530	199	192	0.0029537
6.540	202	192	0.0028905
6.550	236	192	0.0024752
6.560	170	192	0.0034602
6.570	180	192	0.0032283
6.580	199	192	0.0029537
6.590	173	193	0.0033802
6.600	229	193	0.0025508
6.610	209	193	0.0027995
6.620	212	193	0.0027412
6.630	195	193	0.0029861
6.640	223	193	0.0026298
6.650	171	193	0.0034199
6.660	200	193	0.0029218
6.670	226	193	0.0025767
6.680	216	194	0.0027127
6.690	175	194	0.0033412
6.700	212	194	0.0027412
6.710	214	194	0.0027412
6.720	188	194	0.0030864
6.730	176	194	0.0033029
6.740	194	194	0.0030190
6.750	194	194	0.0030190
6.760	194	194	0.0030190
6.770	219	194	0.0026570
6.780	209	195	0.0027995
6.790	195	195	0.0029861
6.800	180	195	0.0032283
6.810	204	195	0.0028597
6.820	223	195	0.0026298
6.830	158	195	0.0037180

6.840	192	195	0.0030524
6.850	262	195	0.0022250
6.860	194	196	0.0030190
6.870	195	196	0.0029861
6.880	216	196	0.0027127
6.890	218	196	0.0026846
6.900	209	196	0.0027995
6.910	201	196	0.0029218
6.920	209	196	0.0027995
6.930	233	197	0.0025000
6.940	224	197	0.0026031
6.950	202	197	0.0028905
6.960	209	197	0.0027995
6.970	199	197	0.0029218
6.980	200	198	0.0029218
6.990	218	198	0.0026846
7.000	195	198	0.0029861
7.010	214	198	0.0027127
7.020	182	198	0.0032283
7.030	177	199	0.0033029
7.040	211	199	0.0027701
7.050	223	199	0.0026298
7.060	237	199	0.0024752
7.070	175	199	0.0033412
7.080	216	200	0.0027127
7.090	202	200	0.0028905
7.100	211	200	0.0027701
7.110	209	200	0.0027995
7.120	235	201	0.0024752
7.130	209	201	0.0027995
7.140	204	201	0.0028597
7.150	257	201	0.0022676
7.160	158	202	0.0037180
7.170	189	202	0.0030864
7.180	185	202	0.0031562
7.190	207	202	0.0027995
7.200	218	203	0.0026846
7.210	211	203	0.0027701
7.220	190	204	0.0030524
7.230	249	204	0.0023565
7.240	243	204	0.0024029
7.250	218	205	0.0026846
7.260	192	205	0.0030190
7.270	242	206	0.0024029
7.280	230	207	0.0025252
7.290	202	207	0.0028905
7.300	180	208	0.0032283
7.310	220	209	0.0026570
7.320	204	210	0.0028597
7.330	204	211	0.0028597
7.340	266	213	0.0021836
7.350	230	215	0.0025252
7.360	218	217	0.0026846
7.370	227	220	0.0025767

7.380	211	224	0.0027701
7.390	227	229	0.0025767
7.400	252	234	0.0023114
7.410	237	240	0.0024507
7.420	244	246	0.0023795
7.430	239	253	0.0024267
7.440	258	262	0.0022676
7.450	280	271	0.0020850
7.460	271	281	0.0021433
7.470	278	293	0.0020850
7.480	323	307	0.0017955
7.490	347	324	0.0016797
7.500	388	343	0.0015023
7.510	321	365	0.0018108
7.520	340	390	0.0017075
7.530	409	415	0.0014240
7.540	387	435	0.0015023
7.550	387	433	0.0015023
7.560	371	402	0.0015623
7.570	370	356	0.0015747
7.580	279	315	0.0020850
7.590	309	285	0.0018740
7.600	277	265	0.0021042
7.610	261	252	0.0022250
7.620	241	243	0.0024267
7.630	254	237	0.0022893
7.640	229	232	0.0025508
7.650	255	229	0.0022893
7.660	222	226	0.0026298
7.670	205	224	0.0028293
7.680	182	222	0.0031919
7.690	232	221	0.0025000
7.700	198	220	0.0029218
7.710	227	219	0.0025508
7.720	196	219	0.0029537
7.730	250	218	0.0023338
7.740	275	218	0.0021042
7.750	227	218	0.0025508
7.760	248	218	0.0023338
7.770	203	218	0.0028597
7.780	195	217	0.0029861
7.790	191	217	0.0030524
7.800	234	217	0.0024752
7.810	196	218	0.0029537
7.820	258	218	0.0022461
7.830	172	218	0.0033802
7.840	227	218	0.0025508
7.850	203	218	0.0028597
7.860	241	218	0.0024029
7.870	229	218	0.0025252
7.880	234	219	0.0024752
7.890	220	219	0.0026298
7.900	205	219	0.0028293
7.910	222	219	0.0026031

7.920	219	220	0.0026570
7.930	215	220	0.0026846
7.940	231	220	0.0025252
7.950	224	221	0.0026031
7.960	264	221	0.0022041
7.970	233	221	0.0025000
7.980	243	222	0.0023795
7.990	233	222	0.0025000
8.000	217	222	0.0026846
8.010	210	223	0.0027701
8.020	226	223	0.0025767
8.030	243	224	0.0023795
8.040	233	224	0.0025000
8.050	262	225	0.0022041
8.060	271	225	0.0021433
8.070	216	226	0.0026846
8.080	229	227	0.0025252
8.090	221	227	0.0026298
8.100	245	228	0.0023565
8.110	240	229	0.0024267
8.120	269	230	0.0021633
8.130	219	230	0.0026570
8.140	243	232	0.0023795
8.150	216	233	0.0026846
8.160	223	234	0.0026031
8.170	249	235	0.0023338
8.180	252	237	0.0022893
8.190	249	239	0.0023338
8.200	230	241	0.0025252
8.210	235	243	0.0024752
8.220	237	246	0.0024507
8.230	275	249	0.0021042
8.240	225	254	0.0025767
8.250	250	258	0.0023114
8.260	247	264	0.0023338
8.270	302	271	0.0019069
8.280	249	278	0.0023338
8.290	261	287	0.0022250
8.300	282	297	0.0020475
8.310	275	307	0.0021042
8.320	316	320	0.0018263
8.330	335	333	0.0017217
8.340	318	348	0.0018263
8.350	374	365	0.0015500
8.360	325	383	0.0017803
8.370	394	402	0.0014680
8.380	400	422	0.0014457
8.390	369	439	0.0015747
8.400	377	451	0.0015379
8.410	382	453	0.0015140
8.420	389	441	0.0014793
8.430	377	419	0.0015379
8.440	357	390	0.0016259
8.450	339	362	0.0017075

8.460	353	338	0.0016391
8.470	303	318	0.0019069
8.480	280	302	0.0020661
8.490	282	291	0.0020475
8.500	267	281	0.0021633
8.510	256	274	0.0022461
8.520	274	269	0.0021042
8.530	232	264	0.0025000
8.540	268	260	0.0021433
8.550	274	258	0.0021042
8.560	248	255	0.0023338
8.570	229	253	0.0025252
8.580	243	252	0.0023795
8.590	286	250	0.0020109
8.600	279	249	0.0020661
8.610	243	249	0.0023795
8.620	276	248	0.0020850
8.630	279	247	0.0020661
8.640	234	247	0.0024752
8.650	276	246	0.0020850
8.660	234	246	0.0024752
8.670	246	246	0.0023338
8.680	224	246	0.0025767
8.690	248	246	0.0023338
8.700	248	245	0.0023338
8.710	245	245	0.0023565
8.720	232	245	0.0024752
8.730	234	245	0.0024507
8.740	220	246	0.0026031
8.750	252	246	0.0022893
8.760	276	246	0.0020850
8.770	231	246	0.0025000
8.780	250	246	0.0023114
8.790	248	246	0.0023114
8.800	243	246	0.0023795
8.810	241	247	0.0023795
8.820	248	247	0.0023114
8.830	262	247	0.0022041
8.840	300	247	0.0019237
8.850	233	247	0.0024752
8.860	271	248	0.0021236
8.870	241	248	0.0023795
8.880	276	248	0.0020850
8.890	247	248	0.0023338
8.900	248	249	0.0023114
8.910	273	249	0.0021042
8.920	274	249	0.0021042
8.930	252	250	0.0022893
8.940	252	250	0.0022893
8.950	247	251	0.0023338
8.960	235	251	0.0024507
8.970	243	252	0.0023565
8.980	261	252	0.0022041
8.990	271	252	0.0021236

9.000	217	253	0.0026570
9.010	245	253	0.0023565
9.020	236	254	0.0024267
9.030	245	254	0.0023565
9.040	249	254	0.0023114
9.050	284	255	0.0020291
9.060	266	255	0.0021633
9.070	261	255	0.0022041
9.080	292	256	0.0019579
9.090	245	256	0.0023338
9.100	270	256	0.0021236
9.110	282	257	0.0020475
9.120	254	257	0.0022676
9.130	263	258	0.0021836
9.140	258	258	0.0022250
9.150	254	258	0.0022676
9.160	261	259	0.0022041
9.170	270	259	0.0021236
9.180	237	260	0.0024267
9.190	256	260	0.0022461
9.200	251	261	0.0022893
9.210	272	261	0.0021042
9.220	260	261	0.0022041
9.230	258	262	0.0022250
9.240	240	262	0.0023795
9.250	279	263	0.0020661
9.260	265	263	0.0021633
9.270	254	264	0.0022461
9.280	265	264	0.0021633
9.290	279	265	0.0020661
9.300	265	265	0.0021633
9.310	234	266	0.0024507
9.320	295	266	0.0019407
9.330	310	267	0.0018420
9.340	256	268	0.0022461
9.350	272	268	0.0021042
9.360	286	269	0.0020109
9.370	249	269	0.0022893
9.380	242	270	0.0023565
9.390	255	271	0.0022461
9.400	284	271	0.0020109
9.410	277	272	0.0020661
9.420	277	273	0.0020661
9.430	291	274	0.0019753
9.440	293	275	0.0019579
9.450	302	276	0.0019069
9.460	274	277	0.0020850
9.470	263	278	0.0021836
9.480	279	279	0.0020475
9.490	277	280	0.0020661
9.500	258	282	0.0022250
9.510	333	283	0.0017217
9.520	262	285	0.0021836
9.530	284	287	0.0020109

9.540	316	290	0.0018108
9.550	267	293	0.0021433
9.560	297	296	0.0019237
9.570	276	300	0.0020850
9.580	300	305	0.0019069
9.590	328	310	0.0017507
9.600	349	317	0.0016391
9.610	290	324	0.0019753
9.620	262	333	0.0021836
9.630	328	342	0.0017361
9.640	337	353	0.0016935
9.650	336	364	0.0017075
9.660	348	377	0.0016391
9.670	367	391	0.0015623
9.680	393	405	0.0014568
9.690	329	418	0.0017361
9.700	385	429	0.0014907
9.710	383	435	0.0014907
9.720	390	434	0.0014680
9.730	420	425	0.0013616
9.740	409	410	0.0013923
9.750	408	391	0.0014027
9.760	353	374	0.0016129
9.770	385	359	0.0014907
9.780	322	346	0.0017803
9.790	415	337	0.0013820
9.800	305	329	0.0018740
9.810	341	324	0.0016797
9.820	336	319	0.0017075
9.830	331	316	0.0017217
9.840	317	314	0.0017955
9.850	324	312	0.0017654
9.860	336	311	0.0016935
9.870	331	310	0.0017217
9.880	305	310	0.0018740
9.890	326	310	0.0017507
9.900	298	310	0.0019237
9.910	326	311	0.0017507
9.920	298	311	0.0019237
9.930	310	313	0.0018420
9.940	308	314	0.0018579
9.950	319	316	0.0017955
9.960	307	318	0.0018579
9.970	359	320	0.0015873
9.980	333	323	0.0017075
9.990	368	327	0.0015500
10.000	370	331	0.0046277
10.010	348	335	0.0032653
10.020	335	341	0.0034199
10.030	354	348	0.0032283
10.040	360	356	0.0031562
10.050	381	366	0.0029861
10.060	399	379	0.0028597
10.070	415	395	0.0027412

10.080	401	415	0.0028293
10.090	423	439	0.0026846
10.100	486	469	0.0023338
10.110	491	503	0.0023114
10.120	545	544	0.0020850
10.130	634	591	0.0017955
10.140	624	644	0.0018263
10.150	684	705	0.0016660
10.160	797	774	0.0014240
10.170	901	850	0.0012664
10.180	977	932	0.0011648
10.190	996	1012	0.0011413
10.200	1031	1078	0.0011037
10.210	1008	1106	0.0011261
10.220	1042	1075	0.0010892
10.230	951	986	0.0011973
10.240	885	866	0.0012847
10.250	752	749	0.0015140
10.260	721	651	0.0015747
10.270	631	576	0.0017955
10.280	542	520	0.0021042
10.290	461	477	0.0024752
10.300	494	445	0.0022893
10.310	436	421	0.0026031
10.320	406	402	0.0027995
10.330	418	387	0.0027127
10.340	404	375	0.0027995
10.350	384	365	0.0029537
10.360	381	357	0.0029861
10.370	351	350	0.0032283
10.380	382	345	0.0029537
10.390	326	340	0.0035013
10.400	343	336	0.0033029
10.410	350	333	0.0032283
10.420	336	330	0.0033802
10.430	333	328	0.0034199
10.440	348	326	0.0032653
10.450	317	324	0.0035856
10.460	317	322	0.0035856
10.470	336	321	0.0033802
10.480	305	319	0.0037180
10.490	321	318	0.0035431
10.500	329	317	0.0034602
10.510	310	316	0.0036731
10.520	324	316	0.0035013
10.530	327	315	0.0034602
10.540	327	314	0.0034602
10.550	315	314	0.0035856
10.560	344	313	0.0033029
10.570	328	313	0.0034602
10.580	302	313	0.0037638
10.590	324	312	0.0035013
10.600	323	312	0.0035013
10.610	332	312	0.0034199

10.620	330	312	0.0034602
10.630	314	311	0.0036290
10.640	318	311	0.0035856
10.650	325	311	0.0035013
10.660	315	311	0.0036290
10.670	319	311	0.0035431
10.680	321	312	0.0035431
10.690	332	312	0.0034199
10.700	341	312	0.0033412
10.710	296	313	0.0038579
10.720	343	314	0.0033029
10.730	303	314	0.0037638
10.740	342	314	0.0033029
10.750	307	315	0.0037180
10.760	297	315	0.0038104
10.770	307	315	0.0037180
10.780	339	315	0.0033412
10.790	325	315	0.0035013
10.800	333	315	0.0034199
10.810	340	316	0.0033412
10.820	341	316	0.0033412
10.830	325	316	0.0035013
10.840	304	316	0.0037180
10.850	314	316	0.0036290
10.860	309	317	0.0036731
10.870	320	317	0.0035431
10.880	308	317	0.0037180
10.890	311	318	0.0036731
10.900	313	318	0.0036290
10.910	355	318	0.0031919
10.920	364	319	0.0031210
10.930	291	319	0.0039063
10.940	315	319	0.0036290
10.950	317	320	0.0035856
10.960	326	320	0.0035013
10.970	348	320	0.0032653
10.980	350	321	0.0032653
10.990	313	321	0.0036290
11.000	334	322	0.0034199
11.010	302	323	0.0037638
11.020	322	323	0.0035431
11.030	315	324	0.0036290
11.040	316	324	0.0036290
11.050	358	325	0.0031919
11.060	305	326	0.0037638
11.070	311	327	0.0036731
11.080	310	328	0.0036731
11.090	304	329	0.0037638
11.100	348	330	0.0033029
11.110	316	332	0.0036290
11.120	329	333	0.0034602
11.130	309	335	0.0036731
11.140	321	336	0.0035431
11.150	327	339	0.0035013

11.160	337	341	0.0033802
11.170	353	344	0.0032283
11.180	368	347	0.0031210
11.190	355	351	0.0032283
11.200	327	356	0.0035013
11.210	374	361	0.0030524
11.220	380	368	0.0030190
11.230	380	376	0.0030190
11.240	399	384	0.0028597
11.250	410	394	0.0027995
11.260	442	405	0.0025767
11.270	422	417	0.0027127
11.280	472	431	0.0024267
11.290	472	444	0.0024267
11.300	470	455	0.0024267
11.310	456	463	0.0025000
11.320	457	465	0.0025000
11.330	420	460	0.0027127
11.340	465	451	0.0024507
11.350	456	441	0.0025000
11.360	374	434	0.0030524
11.370	408	430	0.0027995
11.380	417	430	0.0027412
11.390	417	434	0.0027412
11.400	419	442	0.0027412
11.410	384	454	0.0029861
11.420	412	471	0.0027701
11.430	389	494	0.0029218
11.440	408	526	0.0027995
11.450	478	570	0.0024029
11.460	498	630	0.0022893
11.470	544	709	0.0021042
11.480	622	809	0.0018420
11.490	746	931	0.0015379
11.500	889	1077	0.0012847
11.510	1085	1251	0.0010541
11.520	1317	1458	0.0008651
11.530	1629	1705	0.0006999
11.540	2082	1997	0.0005485
11.550	2696	2330	0.0004234
11.560	3309	2672	0.0003455
11.570	3795	2912	0.0003014
11.580	3525	2858	0.0003235
11.590	2684	2438	0.0004251
11.600	1885	1882	0.0006067
11.610	1303	1424	0.0008753
11.620	979	1109	0.0011648
11.630	784	901	0.0014568
11.640	701	761	0.0016259
11.650	607	664	0.0018740
11.660	532	596	0.0021433
11.670	497	545	0.0022893
11.680	415	507	0.0027412
11.690	433	477	0.0026298

11.700	426	454	0.0026846
11.710	376	436	0.0030190
11.720	393	420	0.0028905
11.730	365	408	0.0031210
11.740	381	398	0.0029861
11.750	355	389	0.0031919
11.760	345	381	0.0033029
11.770	389	375	0.0029218
11.780	384	369	0.0029861
11.790	386	365	0.0029537
11.800	344	360	0.0033029
11.810	352	357	0.0032283
11.820	363	353	0.0031562
11.830	364	350	0.0031210
11.840	358	348	0.0031919
11.850	346	345	0.0033029
11.860	331	343	0.0034602
11.870	327	341	0.0034602
11.880	301	340	0.0037638
11.890	347	338	0.0032653
11.900	367	337	0.0030864
11.910	327	335	0.0034602
11.920	348	334	0.0032653
11.930	325	333	0.0035013
11.940	314	332	0.0036290
11.950	352	331	0.0032283
11.960	304	330	0.0037180
11.970	317	329	0.0035856
11.980	350	329	0.0032283
11.990	331	328	0.0034199
12.000	359	327	0.0031562
12.010	303	327	0.0037180
12.020	308	326	0.0036731
12.030	289	326	0.0039063
12.040	328	325	0.0034602
12.050	318	325	0.0035856
12.060	329	324	0.0034602
12.070	302	324	0.0037638
12.080	352	323	0.0032283
12.090	342	323	0.0033029
12.100	326	323	0.0034602
12.110	327	323	0.0034602
12.120	338	322	0.0033412
12.130	335	322	0.0033802
12.140	327	322	0.0034602
12.150	321	322	0.0035431
12.160	325	322	0.0035013
12.170	310	321	0.0036290
12.180	323	321	0.0035013
12.190	326	321	0.0034602
12.200	328	321	0.0034602
12.210	320	321	0.0035431
12.220	307	321	0.0036731
12.230	355	321	0.0031919

12.240	312	322	0.0036290
12.250	319	322	0.0035431
12.260	315	322	0.0035856
12.270	342	322	0.0033029
12.280	345	323	0.0032653
12.290	326	323	0.0034602
12.300	328	323	0.0034602
12.310	319	324	0.0035431
12.320	331	325	0.0034199
12.330	346	325	0.0032653
12.340	348	326	0.0032653
12.350	323	328	0.0035013
12.360	342	329	0.0033029
12.370	345	330	0.0032653
12.380	339	332	0.0033412
12.390	316	334	0.0035856
12.400	352	337	0.0031919
12.410	334	341	0.0033802
12.420	341	345	0.0033029
12.430	369	350	0.0030524
12.440	326	358	0.0034602
12.450	325	367	0.0034602
12.460	375	378	0.0030190
12.470	397	395	0.0028293
12.480	413	414	0.0027412
12.490	415	436	0.0027127
12.500	432	461	0.0026031
12.510	434	491	0.0026031
12.520	484	524	0.0023338
12.530	567	561	0.0019930
12.540	646	597	0.0017507
12.550	649	625	0.0017361
12.560	712	633	0.0015873
12.570	715	612	0.0015747
12.580	617	567	0.0018263
12.590	554	518	0.0020291
12.600	483	476	0.0023338
12.610	458	445	0.0024752
12.620	429	423	0.0026298
12.630	421	408	0.0026846
12.640	417	399	0.0027127
12.650	402	393	0.0027995
12.660	406	391	0.0027701
12.670	369	390	0.0030524
12.680	360	392	0.0031210
12.690	410	396	0.0027412
12.700	372	401	0.0030190
12.710	396	408	0.0028597
12.720	400	418	0.0028293
12.730	416	430	0.0027127
12.740	430	444	0.0026298
12.750	428	463	0.0026298
12.760	456	485	0.0024752
12.770	490	512	0.0023114

12.780	540	545	0.0020850
12.790	556	582	0.0020291
12.800	630	625	0.0017955
12.810	640	673	0.0017654
12.820	727	725	0.0015500
12.830	769	779	0.0014680
12.840	805	831	0.0014027
12.850	847	876	0.0013320
12.860	872	907	0.0012939
12.870	888	915	0.0012755
12.880	864	896	0.0013127
12.890	821	852	0.0013717
12.900	780	791	0.0014457
12.910	711	725	0.0015873
12.920	645	662	0.0017507
12.930	568	606	0.0019930
12.940	561	558	0.0020109
12.950	524	519	0.0021633
12.960	481	487	0.0023565
12.970	436	460	0.0026031
12.980	459	439	0.0024752
12.990	393	421	0.0028905
13.000	397	407	0.0028597
13.010	373	394	0.0030190
13.020	413	384	0.0027412
13.030	347	375	0.0032653
13.040	355	368	0.0031919
13.050	387	362	0.0029218
13.060	403	356	0.0027995
13.070	352	351	0.0032283
13.080	374	347	0.0030190
13.090	365	344	0.0030864
13.100	358	340	0.0031562
13.110	386	337	0.0029218
13.120	351	335	0.0032283
13.130	353	333	0.0031919
13.140	334	331	0.0033802
13.150	331	329	0.0034199
13.160	323	327	0.0035013
13.170	322	326	0.0035013
13.180	335	325	0.0033802
13.190	358	324	0.0031562
13.200	318	323	0.0035856
13.210	333	323	0.0034199
13.220	348	323	0.0032653
13.230	323	323	0.0035013
13.240	335	323	0.0033802
13.250	325	322	0.0035013
13.260	350	322	0.0032283
13.270	359	321	0.0031562
13.280	335	321	0.0033802
13.290	327	321	0.0034602
13.300	340	321	0.0033412
13.310	348	320	0.0032653

13.320	338	320	0.0033412
13.330	323	320	0.0035013
13.340	337	320	0.0033802
13.350	321	320	0.0035431
13.360	337	321	0.0033802
13.370	373	321	0.0030524
13.380	348	321	0.0032653
13.390	318	321	0.0035856
13.400	299	322	0.0038104
13.410	349	322	0.0032653
13.420	350	322	0.0032283
13.430	337	323	0.0033802
13.440	344	323	0.0033029
13.450	341	324	0.0033412
13.460	350	325	0.0032283
13.470	366	325	0.0030864
13.480	323	326	0.0035013
13.490	346	327	0.0032653
13.500	353	328	0.0032283
13.510	322	329	0.0035431
13.520	371	330	0.0030524
13.530	345	331	0.0033029
13.540	366	333	0.0030864
13.550	341	334	0.0033412
13.560	333	335	0.0034199
13.570	349	337	0.0032653
13.580	334	339	0.0033802
13.590	350	340	0.0032283
13.600	349	342	0.0032653
13.610	374	344	0.0030190
13.620	350	346	0.0032283
13.630	363	349	0.0031210
13.640	358	351	0.0031562
13.650	395	354	0.0028597
13.660	374	357	0.0030190
13.670	384	360	0.0029537
13.680	391	363	0.0028905
13.690	380	366	0.0029861
13.700	374	370	0.0030190
13.710	410	374	0.0027701
13.720	364	379	0.0031210
13.730	381	383	0.0029861
13.740	400	389	0.0028293
13.750	389	394	0.0029218
13.760	407	400	0.0027701
13.770	388	407	0.0029218
13.780	449	414	0.0025252
13.790	454	422	0.0025000
13.800	450	431	0.0025252
13.810	456	440	0.0024752
13.820	440	451	0.0025767
13.830	441	462	0.0025508
13.840	469	475	0.0024029
13.850	516	489	0.0021836

13.860	536	505	0.0021042
13.870	549	523	0.0020661
13.880	530	543	0.0021236
13.890	578	565	0.0019579
13.900	598	590	0.0018904
13.910	622	620	0.0018108
13.920	650	653	0.0017361
13.930	659	691	0.0017075
13.940	734	736	0.0015379
13.950	749	789	0.0015023
13.960	883	850	0.0012755
13.970	911	924	0.0012398
13.980	964	1012	0.0011728
13.990	1093	1119	0.0010339
14.000	1242	1248	0.0009072
14.010	1355	1406	0.0008305
14.020	1649	1598	0.0006853
14.030	1907	1831	0.0005920
14.040	2187	2108	0.0005142
14.050	2506	2432	0.0004508
14.060	2888	2802	0.0003906
14.070	3368	3213	0.0003342
14.080	3800	3652	0.0002962
14.090	4121	4091	0.0002732
14.100	4525	4486	0.0002488
14.110	4729	4770	0.0002381
14.120	4728	4872	0.0002381
14.130	4535	4744	0.0002480
14.140	4337	4405	0.0002593
14.150	3798	3935	0.0002962
14.160	3567	3431	0.0003155
14.170	3059	2966	0.0003684
14.180	2603	2575	0.0004322
14.190	2314	2265	0.0004852
14.200	2040	2031	0.0005510
14.210	1827	1864	0.0006157
14.220	1745	1757	0.0006442
14.230	1671	1707	0.0006712
14.240	1681	1713	0.0006677
14.250	1720	1773	0.0006541
14.260	1824	1889	0.0006157
14.270	2095	2059	0.0005358
14.280	2303	2284	0.0004873
14.290	2609	2562	0.0004304
14.300	3088	2884	0.0003628
14.310	3386	3223	0.0003318
14.320	3513	3508	0.0003189
14.330	3490	3620	0.0003212
14.340	3434	3445	0.0003258
14.350	2995	3015	0.0003741
14.360	2577	2504	0.0004340
14.370	2216	2057	0.0005050
14.380	1800	1719	0.0006219
14.390	1466	1476	0.0007631

14.400	1291	1306	0.0008651
14.410	1111	1189	0.0010078
14.420	1110	1109	0.0010078
14.430	987	1058	0.0011337
14.440	946	1030	0.0011809
14.450	975	1021	0.0011491
14.460	1021	1030	0.0010964
14.470	954	1055	0.0011728
14.480	1003	1098	0.0011111
14.490	1137	1159	0.0009827
14.500	1208	1241	0.0009239
14.510	1306	1344	0.0008550
14.520	1442	1472	0.0007759
14.530	1582	1624	0.0007073
14.540	1758	1799	0.0006345
14.550	2058	1994	0.0005434
14.560	2233	2202	0.0005005
14.570	2464	2409	0.0004527
14.580	2660	2598	0.0004199
14.590	2893	2741	0.0003860
14.600	2838	2812	0.0003921
14.610	2825	2788	0.0003952
14.620	2664	2666	0.0004182
14.630	2526	2465	0.0004414
14.640	2341	2220	0.0004747
14.650	2004	1967	0.0005562
14.660	1745	1729	0.0006377
14.670	1592	1518	0.0006999
14.680	1301	1338	0.0008550
14.690	1239	1188	0.0008964
14.700	1030	1063	0.0010821
14.710	932	960	0.0011891
14.720	837	874	0.0013320
14.730	729	802	0.0015259
14.740	691	742	0.0016129
14.750	604	691	0.0018420
14.760	582	648	0.0019069
14.770	612	611	0.0018108
14.780	521	579	0.0021236
14.790	506	552	0.0021836
14.800	471	528	0.0023565
14.810	483	508	0.0022893
14.820	457	490	0.0024267
14.830	472	474	0.0023565
14.840	424	460	0.0026031
14.850	480	448	0.0023114
14.860	438	438	0.0025252
14.870	440	428	0.0025252
14.880	403	421	0.0027412
14.890	381	414	0.0028905
14.900	382	408	0.0028905
14.910	361	404	0.0030524
14.920	409	400	0.0027127
14.930	379	398	0.0029218

14.940	391	397	0.0028293
14.950	409	397	0.0027127
14.960	407	399	0.0027127
14.970	399	402	0.0027701
14.980	469	407	0.0023565
14.990	407	415	0.0027127
15.000	460	426	0.0024029
15.010	489	441	0.0022676
15.020	499	462	0.0022250
15.030	536	490	0.0020661
15.040	593	529	0.0018579
15.050	612	583	0.0018108
15.060	725	655	0.0015259
15.070	803	750	0.0013820
15.080	965	869	0.0011491
15.090	1166	1014	0.0009467
15.100	1304	1188	0.0008500
15.110	1443	1389	0.0007673
15.120	1636	1604	0.0006747
15.130	1614	1796	0.0006853
15.140	1718	1886	0.0006442
15.150	1563	1790	0.0007073
15.160	1447	1529	0.0007631
15.170	1223	1227	0.0009018
15.180	1018	977	0.0010821
15.190	900	796	0.0012311
15.200	727	669	0.0015140
15.210	629	579	0.0017507
15.220	552	515	0.0019930
15.230	535	468	0.0020661
15.240	431	432	0.0025508
15.250	458	404	0.0024029
15.260	388	382	0.0028597
15.270	368	365	0.0029861
15.280	354	351	0.0031210
15.290	341	339	0.0032283
15.300	349	329	0.0031562
15.310	319	321	0.0034602
15.320	333	313	0.0033029
15.330	319	307	0.0034602
15.340	313	302	0.0035431
15.350	279	297	0.0039555
15.360	285	293	0.0038579
15.370	315	289	0.0035013
15.380	240	286	0.0046277
15.390	265	283	0.0041623
15.400	296	281	0.0037180
15.410	261	279	0.0042166
15.420	266	277	0.0041623
15.430	276	275	0.0040058
15.440	289	273	0.0038104
15.450	285	271	0.0038579
15.460	271	268	0.0040570
15.470	245	267	0.0045043

15.480	304	267	0.0036290
15.490	267	266	0.0041091
15.500	283	266	0.0039063
15.510	260	266	0.0042719
15.520	259	266	0.0042719
15.530	265	267	0.0041623
15.540	262	268	0.0042166
15.550	259	269	0.0042719
15.560	281	271	0.0039555
15.570	264	273	0.0042166
15.580	289	276	0.0038104
15.590	262	280	0.0042166
15.600	286	284	0.0038579
15.610	323	290	0.0034199
15.620	291	297	0.0038104
15.630	312	306	0.0035431
15.640	340	317	0.0032653
15.650	321	330	0.0034602
15.660	350	345	0.0031562
15.670	407	362	0.0027127
15.680	391	380	0.0028293
15.690	433	397	0.0025508
15.700	427	412	0.0025767
15.710	446	423	0.0024752
15.720	456	426	0.0024267
15.730	450	420	0.0024507
15.740	440	406	0.0025252
15.750	398	386	0.0027701
15.760	377	365	0.0029218
15.770	355	343	0.0031210
15.780	331	324	0.0033412
15.790	339	307	0.0032653
15.800	316	293	0.0035013
15.810	276	282	0.0040058
15.820	280	274	0.0039555
15.830	277	266	0.0040058
15.840	256	260	0.0043283
15.850	278	255	0.0039555
15.860	250	251	0.0044444
15.870	223	248	0.0049593
15.880	244	245	0.0045654
15.890	251	242	0.0043858
15.900	238	239	0.0046277
15.910	224	237	0.0049593
15.920	257	236	0.0043283
15.930	250	234	0.0044444
15.940	226	232	0.0048902
15.950	235	231	0.0046913
15.960	254	230	0.0043858
15.970	218	229	0.0051020
15.980	251	228	0.0043858
15.990	217	227	0.0051020
16.000	249	226	0.0044444
16.010	207	225	0.0053279

16.020	214	225	0.0051757
16.030	250	224	0.0044444
16.040	216	223	0.0051020
16.050	225	223	0.0049593
16.060	226	222	0.0048902
16.070	237	222	0.0046913
16.080	231	221	0.0048225
16.090	249	220	0.0044444
16.100	232	220	0.0047562
16.110	238	219	0.0046277
16.120	215	219	0.0051757
16.130	210	218	0.0052510
16.140	189	218	0.0058272
16.150	205	217	0.0054066
16.160	203	216	0.0054870
16.170	225	215	0.0049593
16.180	239	215	0.0046277
16.190	226	215	0.0048902
16.200	217	215	0.0051020
16.210	221	214	0.0050299
16.220	197	214	0.0056532
16.230	197	214	0.0056532
16.240	225	213	0.0048902
16.250	226	213	0.0048902
16.260	206	213	0.0054066
16.270	200	213	0.0055692
16.280	224	213	0.0049593
16.290	215	212	0.0051757
16.300	214	212	0.0051757
16.310	212	212	0.0052510
16.320	215	212	0.0051757
16.330	199	211	0.0055692
16.340	195	211	0.0056532
16.350	204	211	0.0054066
16.360	217	211	0.0051020
16.370	218	211	0.0051020
16.380	196	211	0.0056532
16.390	215	210	0.0051757
16.400	209	210	0.0053279
16.410	216	210	0.0051020
16.420	201	210	0.0054870
16.430	187	210	0.0059172
16.440	213	210	0.0051757
16.450	221	210	0.0033029
16.460	210	210	0.0041091
16.470	237	210	0.0082645
16.480	234	209	0.0082645
16.490	213	209	0.0092456
16.500	208	209	0.0094260
16.510	223	209	0.0087344
16.520	219	208	0.0087344
16.530	188	208	0.0096117
16.540	194	207	0.0094260
16.550	198	207	0.0092456

16.560	193	206	0.0094260
16.570	198	206	0.0092456
16.580	207	206	0.0089000
16.590	232	206	0.0079719
16.600	217	206	0.0085734
16.610	212	206	0.0087344
16.620	224	206	0.0082645
16.630	200	206	0.0092456
16.640	184	206	0.0102030
16.650	193	206	0.0096117
16.660	209	206	0.0089000
16.670	209	206	0.0089000
16.680	209	206	0.0089000
16.690	206	206	0.0090703
16.700	211	206	0.0089000
16.710	203	206	0.0092456
16.720	202	206	0.0094260
16.730	188	206	0.0100000
16.740	190	206	0.0100000
16.750	195	206	0.0098030
16.760	206	206	0.0092456
16.770	204	206	0.0094260
16.780	208	206	0.0090703
16.790	204	206	0.0092456
16.800	190	206	0.0100000
16.810	203	206	0.0094260
16.820	198	207	0.0096117
16.830	187	207	0.0102030
16.840	219	207	0.0087344
16.850	216	207	0.0087344
16.860	214	207	0.0089000
16.870	200	208	0.0094260
16.880	178	208	0.0106281
16.890	196	208	0.0096117
16.900	199	208	0.0096117
16.910	194	208	0.0098030
16.920	215	208	0.0089000
16.930	192	209	0.0100000
16.940	217	209	0.0087344
16.950	182	209	0.0104123
16.960	190	209	0.0100000
16.970	188	209	0.0100000
16.980	186	210	0.0102030
16.990	209	210	0.0090703
17.000	206	210	0.0092456
17.010	195	211	0.0098030
17.020	213	211	0.0089000
17.030	217	212	0.0087344
17.040	217	212	0.0087344
17.050	191	213	0.0100000
17.060	204	213	0.0092456
17.070	197	214	0.0096117
17.080	232	215	0.0081162
17.090	201	216	0.0094260

17.100	199	217	0.0094260
17.110	206	218	0.0092456
17.120	217	219	0.0087344
17.130	200	220	0.0094260
17.140	190	222	0.0100000
17.150	203	223	0.0092456
17.160	236	225	0.0079719
17.170	217	227	0.0087344
17.180	234	229	0.0081162
17.190	228	232	0.0082645
17.200	233	235	0.0081162
17.210	240	239	0.0079719
17.220	239	243	0.0079719
17.230	245	248	0.0076947
17.240	241	254	0.0078315
17.250	239	262	0.0079719
17.260	272	271	0.0069444
17.270	263	283	0.0071818
17.280	302	297	0.0062988
17.290	301	314	0.0062988
17.300	327	335	0.0058272
17.310	359	359	0.0053279
17.320	416	384	0.0045654
17.330	399	409	0.0047562
17.340	420	430	0.0045043
17.350	419	440	0.0045654
17.360	418	436	0.0045654
17.370	435	420	0.0043858
17.380	417	400	0.0045654
17.390	394	383	0.0048225
17.400	382	370	0.0049593
17.410	384	364	0.0049593
17.420	360	363	0.0052510
17.430	348	367	0.0054870
17.440	376	376	0.0050299
17.450	365	389	0.0051757
17.460	400	406	0.0047562
17.470	421	429	0.0045043
17.480	453	456	0.0042166
17.490	478	490	0.0039555
17.500	502	529	0.0037638
17.510	547	575	0.0034602
17.520	603	626	0.0031562
17.530	711	680	0.0026846
17.540	791	735	0.0024029
17.550	806	786	0.0023565
17.560	878	827	0.0021633
17.570	825	853	0.0023114
17.580	922	858	0.0020661
17.590	863	840	0.0022041
17.600	869	803	0.0021836
17.610	810	751	0.0023565
17.620	750	692	0.0025252
17.630	708	634	0.0026846

17.640	627	579	0.0030190
17.650	612	531	0.0031210
17.660	552	489	0.0034602
17.670	493	454	0.0038579
17.680	443	424	0.0042719
17.690	414	400	0.0046277
17.700	397	380	0.0048225
17.710	360	364	0.0053279
17.720	333	352	0.0057392
17.730	305	342	0.0062988
17.740	337	335	0.0056532
17.750	319	331	0.0060093
17.760	317	329	0.0060093
17.770	342	329	0.0055692
17.780	305	332	0.0062000
17.790	326	337	0.0058272
17.800	334	344	0.0057392
17.810	333	354	0.0057392
17.820	360	364	0.0053279
17.830	377	374	0.0050299
17.840	366	383	0.0052510
17.850	352	388	0.0054066
17.860	353	388	0.0054066
17.870	368	382	0.0051757
17.880	348	370	0.0054870
17.890	338	355	0.0056532
17.900	330	338	0.0058272
17.910	322	321	0.0059172
17.920	301	306	0.0064000
17.930	291	292	0.0066098
17.940	250	280	0.0076947
17.950	243	271	0.0078315
17.960	268	262	0.0071818
17.970	235	255	0.0081162
17.980	234	250	0.0082645
17.990	255	245	0.0075614
18.000	249	241	0.0076947
18.010	238	238	0.0081162
18.020	224	235	0.0085734
18.030	235	233	0.0081162
18.040	227	232	0.0084168
18.050	233	231	0.0082645
18.060	240	231	0.0079719
18.070	241	230	0.0079719
18.080	243	229	0.0079719
18.090	245	228	0.0078315
18.100	218	226	0.0087344
18.110	228	223	0.0084168
18.120	222	221	0.0087344
18.130	215	220	0.0089000
18.140	210	218	0.0090703
18.150	204	217	0.0094260
18.160	214	217	0.0090703
18.170	208	216	0.0092456

18.180	240	216	0.0079719
18.190	217	216	0.0089000
18.200	204	216	0.0094260
18.210	221	216	0.0087344
18.220	215	216	0.0089000
18.230	212	217	0.0090703
18.240	223	217	0.0087344
18.250	222	218	0.0087344
18.260	234	219	0.0082645
18.270	220	220	0.0087344
18.280	231	221	0.0084168
18.290	226	223	0.0085734
18.300	229	225	0.0084168
18.310	210	227	0.0092456
18.320	222	230	0.0087344
18.330	244	233	0.0079719
18.340	234	236	0.0082645
18.350	232	240	0.0084168
18.360	254	245	0.0076947
18.370	254	251	0.0076947
18.380	253	257	0.0076947
18.390	266	265	0.0073051
18.400	278	275	0.0069444
18.410	296	287	0.0066098
18.420	290	300	0.0067186
18.430	329	317	0.0059172
18.440	350	336	0.0055692
18.450	362	358	0.0054066
18.460	393	383	0.0049593
18.470	446	411	0.0043858
18.480	470	440	0.0041623
18.490	505	468	0.0038579
18.500	508	491	0.0038579
18.510	504	507	0.0038579
18.520	508	513	0.0038579
18.530	503	506	0.0038579
18.540	491	487	0.0039555
18.550	467	461	0.0041623
18.560	433	430	0.0045043
18.570	390	400	0.0050299
18.580	405	371	0.0048225
18.590	356	346	0.0054870
18.600	322	324	0.0061035
18.610	319	306	0.0061035
18.620	269	291	0.0073051
18.630	277	279	0.0070616
18.640	259	268	0.0075614
18.650	266	260	0.0074316
18.660	266	252	0.0074316
18.670	236	246	0.0082645
18.680	221	241	0.0089000
18.690	238	236	0.0082645
18.700	226	231	0.0087344
18.710	225	227	0.0087344

18.720	219	223	0.0089000
18.730	227	220	0.0085734
18.740	228	217	0.0085734
18.750	206	215	0.0096117
18.760	237	213	0.0082645
18.770	222	211	0.0087344
18.780	204	210	0.0096117
18.790	197	209	0.0100000
18.800	199	208	0.0098030
18.810	199	207	0.0098030
18.820	205	206	0.0096117
18.830	198	205	0.0098030
18.840	213	204	0.0092456
18.850	193	203	0.0102030
18.860	217	202	0.0090703
18.870	203	202	0.0096117
18.880	207	201	0.0094260
18.890	191	200	0.0102030
18.900	204	200	0.0096117
18.910	200	199	0.0098030
18.920	198	199	0.0098030
18.930	181	199	0.0108507
18.940	194	198	0.0102030
18.950	213	198	0.0092456
18.960	197	198	0.0100000
18.970	190	197	0.0102030
18.980	202	197	0.0098030
18.990	202	197	0.0096117
19.000	194	197	0.0102030
19.010	208	197	0.0094260
19.020	210	196	0.0092456
19.030	205	196	0.0096117
19.040	185	196	0.0106281
19.050	209	196	0.0094260
19.060	205	196	0.0096117
19.070	187	196	0.0104123
19.080	189	196	0.0104123
19.090	198	196	0.0098030
19.100	188	196	0.0104123
19.110	188	196	0.0104123
19.120	204	196	0.0096117
19.130	195	196	0.0100000
19.140	215	196	0.0090703
19.150	205	197	0.0096117
19.160	197	197	0.0100000
19.170	198	197	0.0098030
19.180	194	198	0.0100000
19.190	197	198	0.0100000
19.200	211	199	0.0092456
19.210	192	200	0.0102030
19.220	188	200	0.0104123
19.230	188	202	0.0104123
19.240	188	203	0.0104123
19.250	199	205	0.0098030

19.260	213	207	0.0092456
19.270	202	209	0.0096117
19.280	200	213	0.0098030
19.290	204	217	0.0096117
19.300	233	223	0.0084168
19.310	208	231	0.0094260
19.320	225	240	0.0087344
19.330	223	250	0.0087344
19.340	271	260	0.0071818
19.350	263	270	0.0074316
19.360	283	276	0.0069444
19.370	284	277	0.0068301
19.380	282	271	0.0069444
19.390	271	261	0.0071818
19.400	281	250	0.0069444
19.410	246	240	0.0079719
19.420	235	233	0.0082645
19.430	239	227	0.0081162
19.440	224	224	0.0087344
19.450	212	222	0.0092456
19.460	230	221	0.0084168
19.470	204	220	0.0096117
19.480	232	220	0.0084168
19.490	215	221	0.0090703
19.500	213	221	0.0092456
19.510	222	221	0.0087344
19.520	211	221	0.0092456
19.530	234	220	0.0082645
19.540	214	219	0.0090703
19.550	194	217	0.0100000
19.560	229	215	0.0084168
19.570	224	213	0.0087344
19.580	225	211	0.0085734
19.590	185	209	0.0104123
19.600	223	208	0.0087344
19.610	199	207	0.0098030
19.620	221	205	0.0087344
19.630	211	205	0.0092456
19.640	186	204	0.0104123
19.650	196	203	0.0100000
19.660	236	203	0.0082645
19.670	193	203	0.0100000
19.680	208	203	0.0092456
19.690	204	203	0.0096117
19.700	209	203	0.0092456
19.710	206	203	0.0094260
19.720	207	203	0.0094260
19.730	199	204	0.0098030
19.740	200	204	0.0098030
19.750	205	204	0.0094260
19.760	207	205	0.0094260
19.770	217	205	0.0089000
19.780	198	206	0.0098030
19.790	206	207	0.0094260

19.800	209	208	0.0092456
19.810	201	210	0.0096117
19.820	203	211	0.0096117
19.830	212	213	0.0090703
19.840	217	216	0.0089000
19.850	196	219	0.0098030
19.860	237	223	0.0081162
19.870	227	227	0.0085734
19.880	225	233	0.0085734
19.890	237	240	0.0081162
19.900	230	249	0.0084168
19.910	257	261	0.0075614
19.920	268	275	0.0073051
19.930	283	294	0.0068301
19.940	315	314	0.0062000
19.950	346	337	0.0055692
19.960	370	358	0.0052510
19.970	374	374	0.0051757
19.980	351	378	0.0055692
19.990	356	368	0.0054870
20.000	357	347	0.0079719
20.010	315	322	0.0027995
20.020	311	299	0.0028597
20.030	275	281	0.0032283
20.040	273	267	0.0032283
20.050	267	257	0.0033029
20.060	254	249	0.0034602
20.070	250	243	0.0035431
20.080	246	239	0.0035856
20.090	234	237	0.0037638
20.100	244	235	0.0036290
20.110	238	233	0.0037180
20.120	224	233	0.0039555
20.130	225	233	0.0039555
20.140	234	233	0.0038104
20.150	237	233	0.0037180
20.160	232	234	0.0038104
20.170	229	236	0.0038579
20.180	235	237	0.0037638
20.190	260	239	0.0034199
20.200	233	242	0.0038104
20.210	250	244	0.0035431
20.220	218	247	0.0040570
20.230	256	251	0.0034602
20.240	278	255	0.0031919
20.250	251	259	0.0035431
20.260	277	264	0.0031919
20.270	291	270	0.0030524
20.280	275	277	0.0032283
20.290	344	284	0.0025767
20.300	300	293	0.0029537
20.310	286	302	0.0030864
20.320	326	313	0.0027127
20.330	310	326	0.0028597

20.340	365	340	0.0024267
20.350	352	356	0.0025000
20.360	378	375	0.0023338
20.370	412	395	0.0021433
20.380	471	419	0.0018740
20.390	418	447	0.0021236
20.400	500	479	0.0017654
20.410	518	519	0.0017075
20.420	558	567	0.0015873
20.430	600	628	0.0014680
20.440	669	703	0.0013223
20.450	830	794	0.0010610
20.460	842	904	0.0010473
20.470	1041	1033	0.0008451
20.480	1200	1179	0.0007344
20.490	1294	1333	0.0006817
20.500	1381	1480	0.0006377
20.510	1559	1599	0.0005642
20.520	1554	1664	0.0005669
20.530	1568	1654	0.0005615
20.540	1509	1568	0.0005834
20.550	1420	1427	0.0006188
20.560	1341	1261	0.0006541
20.570	1198	1098	0.0007344
20.580	1076	952	0.0008163
20.590	906	828	0.0009705
20.600	760	727	0.0011569
20.610	742	645	0.0011809
20.620	593	578	0.0014793
20.630	512	525	0.0017075
20.640	482	481	0.0018108
20.650	469	445	0.0018579
20.660	390	415	0.0022461
20.670	383	391	0.0022893
20.680	373	370	0.0023338
20.690	336	353	0.0026031
20.700	318	338	0.0027412
20.710	316	325	0.0027701
20.720	331	315	0.0026298
20.730	297	305	0.0029537
20.740	287	297	0.0030524
20.750	286	290	0.0030524
20.760	257	285	0.0033802
20.770	285	279	0.0030524
20.780	320	275	0.0027127
20.790	293	271	0.0029537
20.800	255	268	0.0034199
20.810	258	266	0.0033802
20.820	235	263	0.0037180
20.830	274	262	0.0031562
20.840	242	260	0.0035856
20.850	243	259	0.0035856
20.860	235	259	0.0036731
20.870	284	259	0.0030524

20.880	264	259	0.0033029
20.890	260	260	0.0033412
20.900	264	261	0.0032653
20.910	248	262	0.0035013
20.920	262	265	0.0033029
20.930	268	268	0.0032283
20.940	288	271	0.0030190
20.950	229	276	0.0037638
20.960	283	282	0.0030524
20.970	260	289	0.0033412
20.980	309	297	0.0027995
20.990	288	308	0.0030190
21.000	338	321	0.0025508
21.010	331	337	0.0026031
21.020	374	356	0.0023114
21.030	397	380	0.0021836
21.040	399	408	0.0021633
21.050	435	441	0.0019930
21.060	505	478	0.0017075
21.070	503	517	0.0017217
21.080	570	554	0.0015140
21.090	568	584	0.0015259
21.100	628	601	0.0013820
21.110	610	600	0.0014240
21.120	597	582	0.0014457
21.130	537	551	0.0016129
21.140	533	514	0.0016259
21.150	445	477	0.0019407
21.160	451	445	0.0019237
21.170	463	419	0.0018740
21.180	462	398	0.0018740
21.190	410	383	0.0021042
21.200	372	373	0.0023338
21.210	392	367	0.0022041
21.220	408	364	0.0021236
21.230	366	364	0.0023565
21.240	354	367	0.0024507
21.250	380	371	0.0022676
21.260	406	376	0.0021433
21.270	374	381	0.0023114
21.280	426	384	0.0020291
21.290	429	385	0.0020291
21.300	420	383	0.0020661
21.310	368	377	0.0023565
21.320	372	369	0.0023338
21.330	374	359	0.0023114
21.340	351	349	0.0024752
21.350	366	338	0.0023565
21.360	345	329	0.0025000
21.370	316	320	0.0027412
21.380	331	313	0.0026298
21.390	340	307	0.0025508
21.400	308	303	0.0028293
21.410	310	299	0.0027995

21.420	300	297	0.0028905
21.430	276	296	0.0031562
21.440	319	296	0.0027127
21.450	327	297	0.0026570
21.460	309	298	0.0027995
21.470	278	301	0.0031210
21.480	296	305	0.0029218
21.490	304	309	0.0028597
21.500	257	315	0.0033802
21.510	279	322	0.0031210
21.520	289	331	0.0030190
21.530	296	342	0.0029537
21.540	331	354	0.0026298
21.550	366	369	0.0023795
21.560	415	388	0.0020850
21.570	377	410	0.0023114
21.580	437	437	0.0019930
21.590	465	471	0.0018740
21.600	533	513	0.0016259
21.610	569	566	0.0015259
21.620	631	635	0.0013820
21.630	723	724	0.0012056
21.640	940	840	0.0009295
21.650	965	992	0.0009018
21.660	1235	1187	0.0007036
21.670	1569	1430	0.0005562
21.680	1766	1716	0.0004938
21.690	2028	2025	0.0004304
21.700	2090	2311	0.0004165
21.710	2251	2496	0.0003875
21.720	2238	2499	0.0003890
21.730	2051	2301	0.0004251
21.740	1789	1976	0.0004873
21.750	1561	1632	0.0005589
21.760	1453	1335	0.0006007
21.770	1191	1102	0.0007344
21.780	980	926	0.0008911
21.790	909	795	0.0009585
21.800	768	697	0.0011413
21.810	663	623	0.0013223
21.820	562	566	0.0015623
21.830	535	523	0.0016391
21.840	501	489	0.0017507
21.850	465	463	0.0018740
21.860	440	443	0.0019930
21.870	432	428	0.0020291
21.880	406	417	0.0021633
21.890	395	410	0.0022250
21.900	388	406	0.0022461
21.910	410	405	0.0021433
21.920	441	406	0.0019930
21.930	423	411	0.0020661
21.940	400	418	0.0021836
21.950	387	429	0.0022676

21.960	394	443	0.0022250
21.970	464	461	0.0018904
21.980	480	483	0.0018263
21.990	457	510	0.0019237
22.000	546	542	0.0016000
22.010	549	579	0.0016000
22.020	610	621	0.0014348
22.030	749	668	0.0011728
22.040	729	716	0.0011973
22.050	782	764	0.0011186
22.060	840	806	0.0010406
22.070	791	837	0.0011037
22.080	924	853	0.0009467
22.090	853	851	0.0010273
22.100	909	830	0.0009645
22.110	784	795	0.0011186
22.120	734	749	0.0011891
22.130	749	699	0.0011648
22.140	696	648	0.0012575
22.150	628	602	0.0013923
22.160	577	560	0.0015140
22.170	545	523	0.0016000
22.180	484	492	0.0018108
22.190	468	466	0.0018740
22.200	437	445	0.0019930
22.210	449	428	0.0019407
22.220	395	414	0.0022041
22.230	384	403	0.0022676
22.240	374	396	0.0023338
22.250	328	391	0.0026570
22.260	393	388	0.0022250
22.270	395	388	0.0022041
22.280	375	391	0.0023338
22.290	385	396	0.0022676
22.300	383	404	0.0022676
22.310	419	416	0.0020850
22.320	414	430	0.0021042
22.330	453	447	0.0019237
22.340	486	466	0.0017955
22.350	479	487	0.0018108
22.360	548	508	0.0015873
22.370	591	528	0.0014680
22.380	587	545	0.0014793
22.390	608	557	0.0014348
22.400	623	561	0.0013923
22.410	581	557	0.0014907
22.420	624	545	0.0013923
22.430	625	526	0.0013923
22.440	585	503	0.0014907
22.450	519	478	0.0016797
22.460	531	454	0.0016391
22.470	457	430	0.0019069
22.480	439	409	0.0019753
22.490	443	390	0.0019579

22.500	355	374	0.0024507
22.510	363	360	0.0023795
22.520	366	349	0.0023795
22.530	346	339	0.0025000
22.540	333	332	0.0026031
22.550	351	326	0.0024752
22.560	310	322	0.0027995
22.570	291	319	0.0029861
22.580	310	318	0.0027995
22.590	307	318	0.0028293
22.600	312	319	0.0027701
22.610	312	323	0.0027701
22.620	304	328	0.0028293
22.630	288	335	0.0030190
22.640	345	344	0.0025000
22.650	338	356	0.0025508
22.660	380	371	0.0022676
22.670	391	390	0.0022041
22.680	396	414	0.0021836
22.690	401	442	0.0021633
22.700	454	475	0.0019069
22.710	524	514	0.0016525
22.720	533	555	0.0016129
22.730	605	598	0.0014240
22.740	610	637	0.0014133
22.750	620	667	0.0013923
22.760	643	685	0.0013418
22.770	658	687	0.0013127
22.780	659	676	0.0013127
22.790	577	653	0.0014907
22.800	590	620	0.0014568
22.810	540	578	0.0015873
22.820	504	528	0.0017075
22.830	438	478	0.0019579
22.840	442	435	0.0019407
22.850	421	399	0.0020475
22.860	396	371	0.0021633
22.870	385	348	0.0022250
22.880	303	330	0.0028293
22.890	332	316	0.0025767
22.900	267	304	0.0032283
22.910	329	295	0.0026031
22.920	278	287	0.0030864
22.930	256	280	0.0033412
22.940	249	275	0.0034602
22.950	263	271	0.0032653
22.960	258	268	0.0033029
22.970	276	265	0.0031210
22.980	269	263	0.0031919
22.990	285	262	0.0030190
23.000	245	260	0.0035013
23.010	250	259	0.0034199
23.020	283	260	0.0030190
23.030	238	261	0.0035856

23.040	242	263	0.0035431
23.050	275	266	0.0031210
23.060	223	269	0.0038104
23.070	281	274	0.0030524
23.080	256	279	0.0033412
23.090	270	285	0.0031562
23.100	309	293	0.0027701
23.110	300	301	0.0028597
23.120	316	310	0.0027127
23.130	315	320	0.0027127
23.140	313	331	0.0027412
23.150	269	342	0.0031919
23.160	311	355	0.0027412
23.170	361	369	0.0023795
23.180	364	387	0.0023565
23.190	352	411	0.0024267
23.200	401	444	0.0021236
23.210	439	492	0.0019407
23.220	506	560	0.0016935
23.230	570	660	0.0015023
23.240	788	798	0.0010821
23.250	996	980	0.0008600
23.260	1311	1200	0.0006508
23.270	1551	1431	0.0005510
23.280	1649	1600	0.0005189
23.290	1641	1604	0.0005213
23.300	1439	1410	0.0005920
23.310	1126	1128	0.0007589
23.320	904	879	0.0009467
23.330	757	697	0.0011261
23.340	561	571	0.0015259
23.350	526	485	0.0016259
23.360	482	425	0.0017654
23.370	409	381	0.0020850
23.380	346	349	0.0024752
23.390	321	325	0.0026570
23.400	329	306	0.0026031
23.410	297	291	0.0028597
23.420	267	279	0.0031919
23.430	251	270	0.0034199
23.440	273	262	0.0031210
23.450	279	255	0.0030524
23.460	229	249	0.0037180
23.470	244	245	0.0035013
23.480	232	240	0.0036731
23.490	242	237	0.0035431
23.500	280	234	0.0030524
23.510	221	231	0.0038579
23.520	235	229	0.0036290
23.530	210	227	0.0040570
23.540	254	225	0.0033802
23.550	235	224	0.0036290
23.560	221	223	0.0038579
23.570	204	221	0.0042166

23.580	219	221	0.0039063
23.590	221	220	0.0038579
23.600	235	219	0.0036290
23.610	214	219	0.0040058
23.620	241	218	0.0035431
23.630	222	218	0.0038579
23.640	232	218	0.0036731
23.650	226	218	0.0037638
23.660	230	218	0.0037180
23.670	210	219	0.0040570
23.680	216	220	0.0039555
23.690	237	221	0.0036290
23.700	221	223	0.0038579
23.710	237	225	0.0036290
23.720	234	228	0.0036290
23.730	230	232	0.0037180
23.740	261	238	0.0032653
23.750	272	245	0.0031562
23.760	281	255	0.0030524
23.770	255	266	0.0033412
23.780	306	277	0.0027995
23.790	289	287	0.0029537
23.800	326	291	0.0026298
23.810	302	288	0.0028293
23.820	302	278	0.0028293
23.830	280	265	0.0030524
23.840	277	253	0.0030864
23.850	249	244	0.0034199
23.860	274	237	0.0031210
23.870	282	232	0.0030190
23.880	248	228	0.0034602
23.890	241	225	0.0035431
23.900	255	224	0.0033412
23.910	255	222	0.0033412
23.920	221	221	0.0038579
23.930	223	221	0.0038104
23.940	241	220	0.0035431
23.950	199	220	0.0043283
23.960	228	220	0.0037638
23.970	234	221	0.0036731
23.980	234	221	0.0036731
23.990	215	222	0.0039555
24.000	227	223	0.0037638
24.010	244	224	0.0035013
24.020	233	225	0.0036731
24.030	193	227	0.0044444
24.040	226	228	0.0038104
24.050	216	230	0.0039555
24.060	232	232	0.0036731
24.070	253	235	0.0033802
24.080	247	237	0.0034602
24.090	220	241	0.0039063
24.100	253	244	0.0033802
24.110	224	248	0.0038104

24.120	272	253	0.0031562
24.130	272	258	0.0031562
24.140	285	265	0.0030190
24.150	287	272	0.0029861
24.160	282	280	0.0030524
24.170	289	290	0.0029537
24.180	341	302	0.0025000
24.190	322	316	0.0026570
24.200	367	332	0.0023338
24.210	359	351	0.0023795
24.220	398	374	0.0021433
24.230	433	401	0.0019753
24.240	458	431	0.0018740
24.250	496	466	0.0017217
24.260	524	505	0.0016391
24.270	575	545	0.0014907
24.280	672	584	0.0012755
24.290	630	616	0.0013616
24.300	652	638	0.0013127
24.310	645	644	0.0013320
24.320	636	635	0.0013516
24.330	595	611	0.0014348
24.340	580	578	0.0014793
24.350	545	539	0.0015747
24.360	538	499	0.0016000
24.370	460	461	0.0018579
24.380	492	427	0.0017361
24.390	443	398	0.0019407
24.400	394	374	0.0021836
24.410	358	354	0.0024029
24.420	345	337	0.0024752
24.430	309	323	0.0027701
24.440	332	312	0.0025767
24.450	339	303	0.0025252
24.460	332	295	0.0025767
24.470	323	287	0.0026570
24.480	267	281	0.0032283
24.490	276	274	0.0031210
24.500	278	269	0.0030864
24.510	253	264	0.0033802
24.520	262	259	0.0032653
24.530	293	255	0.0029218
24.540	249	251	0.0034602
24.550	259	247	0.0033029
24.560	239	244	0.0035856
24.570	226	242	0.0038104
24.580	277	240	0.0030864
24.590	241	238	0.0035431
24.600	226	237	0.0038104
24.610	228	236	0.0037638
24.620	232	235	0.0037180
24.630	234	235	0.0036731
24.640	242	235	0.0035431
24.650	253	236	0.0034199

24.660	251	237	0.0034199
24.670	268	238	0.0031919
24.680	242	240	0.0035431
24.690	244	242	0.0035013
24.700	277	246	0.0031210
24.710	261	250	0.0033029
24.720	271	255	0.0031562
24.730	282	262	0.0030524
24.740	310	270	0.0027701
24.750	313	281	0.0027412
24.760	322	295	0.0026570
24.770	381	313	0.0022461
24.780	424	336	0.0020291
24.790	392	365	0.0021836
24.800	417	401	0.0020661
24.810	469	443	0.0018263
24.820	453	487	0.0018904
24.830	506	525	0.0016935
24.840	534	548	0.0016129
24.850	487	546	0.0017654
24.860	463	519	0.0018579
24.870	453	476	0.0018904
24.880	429	429	0.0020109
24.890	413	387	0.0020850
24.900	374	352	0.0022893
24.910	337	325	0.0025508
24.920	313	304	0.0027412
24.930	313	288	0.0027412
24.940	285	276	0.0030190
24.950	243	266	0.0035431
24.960	265	259	0.0032283
24.970	264	253	0.0032653
24.980	241	248	0.0035431
24.990	260	245	0.0033029
25.000	234	242	0.0036731
25.010	226	241	0.0038104
25.020	228	240	0.0037638
25.030	264	239	0.0032283
25.040	241	239	0.0035431
25.050	235	240	0.0036290
25.060	261	241	0.0033029
25.070	243	243	0.0035431
25.080	210	245	0.0041091
25.090	249	248	0.0034602
25.100	252	251	0.0034199
25.110	262	255	0.0032653
25.120	257	259	0.0033412
25.130	271	263	0.0031562
25.140	237	267	0.0036290
25.150	271	271	0.0031562
25.160	257	274	0.0033412
25.170	261	277	0.0032653
25.180	295	278	0.0028905
25.190	281	278	0.0030524

25.200	265	278	0.0032283
25.210	281	278	0.0030524
25.220	318	278	0.0026846
25.230	274	278	0.0031210
25.240	263	280	0.0032653
25.250	303	281	0.0028293
25.260	325	284	0.0026298
25.270	324	286	0.0026570
25.280	319	287	0.0026846
25.290	309	287	0.0027701
25.300	272	285	0.0031562
25.310	277	281	0.0030864
25.320	289	276	0.0029537
25.330	261	271	0.0032653
25.340	258	267	0.0033029
25.350	264	263	0.0032283
25.360	268	259	0.0031919
25.370	290	257	0.0029537
25.380	264	255	0.0032283
25.390	290	255	0.0029537
25.400	256	254	0.0033412
25.410	263	255	0.0032283
25.420	238	255	0.0035856
25.430	242	255	0.0035013
25.440	257	255	0.0033412
25.450	264	255	0.0032283
25.460	275	253	0.0030864
25.470	272	252	0.0031210
25.480	264	249	0.0032283
25.490	280	247	0.0030524
25.500	248	244	0.0034602
25.510	300	241	0.0028293
25.520	231	239	0.0036731
25.530	229	237	0.0037180
25.540	233	235	0.0036731
25.550	240	233	0.0035431
25.560	261	232	0.0032653
25.570	241	230	0.0035431
25.580	200	230	0.0042719
25.590	228	229	0.0037180
25.600	246	229	0.0034602
25.610	215	228	0.0039555
25.620	225	229	0.0037638
25.630	215	229	0.0039555
25.640	247	229	0.0034199
25.650	217	230	0.0039063
25.660	218	231	0.0039063
25.670	206	232	0.0041091
25.680	224	233	0.0038104
25.690	250	235	0.0033802
25.700	245	236	0.0034602
25.710	238	238	0.0035431
25.720	251	241	0.0033802
25.730	277	243	0.0030524

25.740	223	247	0.0038104
25.750	236	250	0.0035856
25.760	240	254	0.0035431
25.770	223	259	0.0038104
25.780	224	264	0.0037638
25.790	270	270	0.0031210
25.800	238	277	0.0035431
25.810	270	285	0.0031210
25.820	314	293	0.0026846
25.830	295	303	0.0028597
25.840	360	315	0.0023565
25.850	345	327	0.0024507
25.860	350	340	0.0024267
25.870	358	354	0.0023565
25.880	366	369	0.0023114
25.890	395	383	0.0021433
25.900	418	395	0.0020291
25.910	425	405	0.0019930
25.920	381	412	0.0022250
25.930	420	415	0.0020109
25.940	439	414	0.0019237
25.950	370	409	0.0022893
25.960	416	402	0.0020291
25.970	373	392	0.0022676
25.980	378	383	0.0022250
25.990	389	374	0.0021633
26.000	385	365	0.0021836
26.010	391	359	0.0021633
26.020	371	354	0.0022676
26.030	356	352	0.0023565
26.040	375	351	0.0022461
26.050	392	352	0.0021433
26.060	328	355	0.0025767
26.070	312	359	0.0026846
26.080	331	364	0.0025508
26.090	334	369	0.0025252
26.100	389	373	0.0021633
26.110	397	375	0.0021236
26.120	338	375	0.0025000
26.130	389	372	0.0021633
26.140	362	366	0.0023114
26.150	351	358	0.0023795
26.160	342	349	0.0024507
26.170	322	338	0.0026031
26.180	346	328	0.0024267
26.190	322	318	0.0026031
26.200	321	309	0.0026298
26.210	272	301	0.0030864
26.220	289	294	0.0028905
26.230	293	288	0.0028597
26.240	268	284	0.0031210
26.250	277	280	0.0030190
26.260	245	277	0.0034199
26.270	266	275	0.0031562

26.280	301	272	0.0027701
26.290	276	269	0.0030190
26.300	249	266	0.0033802
26.310	253	263	0.0033029
26.320	234	261	0.0035856
26.330	267	259	0.0031210
26.340	261	258	0.0031919
26.350	267	257	0.0031210
26.360	234	257	0.0035856
26.370	256	257	0.0032653
26.380	266	258	0.0031562
26.390	282	260	0.0029537
26.400	243	262	0.0034602
26.410	276	264	0.0030190
26.420	274	267	0.0030524
26.430	251	271	0.0033412
26.440	261	275	0.0031919
26.450	284	281	0.0029537
26.460	296	287	0.0028293
26.470	291	294	0.0028905
26.480	339	302	0.0024752
26.490	332	312	0.0025252
26.500	375	323	0.0022250
26.510	354	335	0.0023565
26.520	372	349	0.0022461
26.530	385	364	0.0021633
26.540	384	379	0.0021633
26.550	396	395	0.0021042
26.560	443	409	0.0018904
26.570	448	422	0.0018579
26.580	502	432	0.0016660
26.590	500	439	0.0016660
26.600	416	443	0.0020109
26.610	458	445	0.0018263
26.620	483	446	0.0017217
26.630	445	449	0.0018740
26.640	496	455	0.0016797
26.650	480	465	0.0017361
26.660	454	480	0.0018420
26.670	512	498	0.0016259
26.680	538	517	0.0015500
26.690	484	530	0.0017217
26.700	514	530	0.0016259
26.710	489	514	0.0017075
26.720	458	485	0.0018263
26.730	426	450	0.0019579
26.740	410	415	0.0020291
26.750	353	384	0.0023565
26.760	311	358	0.0026846
26.770	309	338	0.0027127
26.780	311	322	0.0026846
26.790	321	309	0.0026031
26.800	300	300	0.0027701
26.810	287	292	0.0029218

26.820	294	286	0.0028293
26.830	255	281	0.0032653
26.840	252	277	0.0033029
26.850	259	275	0.0032283
26.860	264	273	0.0031562
26.870	283	272	0.0029537
26.880	273	271	0.0030864
26.890	262	271	0.0031919
26.900	306	272	0.0027412
26.910	264	273	0.0031562
26.920	254	275	0.0033029
26.930	234	277	0.0035856
26.940	259	280	0.0032283
26.950	313	284	0.0026846
26.960	259	288	0.0032283
26.970	298	294	0.0027995
26.980	284	300	0.0029537
26.990	265	307	0.0031562
27.000	296	316	0.0028293
27.010	341	326	0.0024507
27.020	321	338	0.0026298
27.030	350	352	0.0024029
27.040	362	368	0.0023114
27.050	356	387	0.0023565
27.060	408	409	0.0020475
27.070	437	435	0.0019237
27.080	506	464	0.0016660
27.090	535	497	0.0015747
27.100	565	533	0.0014907
27.110	554	572	0.0015140
27.120	672	610	0.0012486
27.130	627	645	0.0013418
27.140	685	673	0.0012311
27.150	754	690	0.0011186
27.160	727	694	0.0011569
27.170	651	684	0.0012939
27.180	622	663	0.0013516
27.190	603	632	0.0014027
27.200	637	598	0.0013223
27.210	554	563	0.0015259
27.220	531	529	0.0015873
27.230	572	499	0.0014793
27.240	496	473	0.0017075
27.250	482	451	0.0017507
27.260	436	433	0.0019407
27.270	427	418	0.0019753
27.280	432	405	0.0019579
27.290	441	394	0.0019237
27.300	378	384	0.0022461
27.310	353	375	0.0024029
27.320	399	367	0.0021236
27.330	375	359	0.0022676
27.340	353	352	0.0024029
27.350	344	345	0.0024507

27.360	319	339	0.0026570
27.370	317	334	0.0026846
27.380	334	330	0.0025252
27.390	317	327	0.0026846
27.400	312	325	0.0027127
27.410	301	324	0.0027995
27.420	322	325	0.0026298
27.430	325	327	0.0026031
27.440	313	331	0.0027127
27.450	331	336	0.0025508
27.460	373	343	0.0022676
27.470	334	353	0.0025252
27.480	374	365	0.0022676
27.490	359	381	0.0023565
27.500	411	401	0.0020661
27.510	416	426	0.0020475
27.520	471	459	0.0017955
27.530	549	499	0.0015379
27.540	533	551	0.0015873
27.550	665	615	0.0012755
27.560	737	693	0.0011491
27.570	849	783	0.0009951
27.580	961	879	0.0008805
27.590	999	968	0.0008500
27.600	1010	1032	0.0008402
27.610	1004	1059	0.0008451
27.620	1005	1045	0.0008451
27.630	977	1000	0.0008651
27.640	891	935	0.0009526
27.650	831	862	0.0010207
27.660	710	784	0.0011891
27.670	757	709	0.0011186
27.680	601	640	0.0014133
27.690	590	579	0.0014348
27.700	577	529	0.0014680
27.710	519	488	0.0016259
27.720	482	456	0.0017507
27.730	465	430	0.0018263
27.740	427	410	0.0019753
27.750	399	395	0.0021236
27.760	354	384	0.0023795
27.770	378	376	0.0022461
27.780	356	371	0.0023795
27.790	403	369	0.0021042
27.800	359	370	0.0023565
27.810	354	372	0.0023795
27.820	359	377	0.0023565
27.830	379	385	0.0022250
27.840	416	394	0.0020291
27.850	426	406	0.0019753
27.860	474	420	0.0017803
27.870	499	436	0.0016935
27.880	453	453	0.0018579
27.890	522	471	0.0016129

27.900	508	489	0.0016660
27.910	543	504	0.0015500
27.920	618	516	0.0013616
27.930	508	523	0.0016525
27.940	576	524	0.0014680
27.950	525	519	0.0016000
27.960	522	509	0.0016129
27.970	516	494	0.0016259
27.980	489	477	0.0017217
27.990	527	459	0.0016000
28.000	488	441	0.0017217
28.010	471	423	0.0017955
28.020	436	406	0.0019237
28.030	398	391	0.0021042
28.040	361	377	0.0023338
28.050	403	363	0.0020850
28.060	351	350	0.0024029
28.070	296	338	0.0028293
28.080	330	326	0.0025508
28.090	317	316	0.0026570
28.100	316	306	0.0026570
28.110	287	297	0.0029218
28.120	282	288	0.0029861
28.130	305	281	0.0027412
28.140	255	275	0.0033029
28.150	287	269	0.0029218
28.160	273	265	0.0030524
28.170	253	260	0.0033029
28.180	252	257	0.0033412
28.190	241	253	0.0034602
28.200	236	250	0.0035431
28.210	238	248	0.0035431
28.220	239	246	0.0035013
28.230	247	244	0.0033802
28.240	280	243	0.0029861
28.250	247	241	0.0033802
28.260	256	240	0.0032653
28.270	249	240	0.0033802
28.280	230	239	0.0036290
28.290	222	239	0.0037638
28.300	243	240	0.0034199
28.310	231	240	0.0036290
28.320	266	241	0.0031562
28.330	247	242	0.0033802
28.340	223	244	0.0037638
28.350	223	247	0.0037638
28.360	261	249	0.0031919
28.370	247	253	0.0033802
28.380	253	257	0.0033029
28.390	253	262	0.0033029
28.400	280	269	0.0029861
28.410	281	276	0.0029537
28.420	300	284	0.0027701
28.430	307	294	0.0027127

28.440	341	305	0.0024507
28.450	302	317	0.0027701
28.460	350	330	0.0023795
28.470	329	342	0.0025252
28.480	390	354	0.0021433
28.490	384	364	0.0021633
28.500	356	370	0.0023338
28.510	402	372	0.0020661
28.520	388	368	0.0021433
28.530	298	359	0.0027995
28.540	345	345	0.0024029
28.550	336	329	0.0024752
28.560	305	313	0.0027127
28.570	335	298	0.0024752
28.580	246	285	0.0033802
28.590	264	273	0.0031210
28.600	249	263	0.0033412
28.610	234	255	0.0035431
28.620	231	248	0.0035856
28.630	217	242	0.0038104
28.640	248	237	0.0033412
28.650	230	233	0.0035856
28.660	219	230	0.0037638
28.670	197	226	0.0042166
28.680	214	224	0.0038579
28.690	213	221	0.0038579
28.700	208	219	0.0039555
28.710	196	218	0.0042166
28.720	200	216	0.0041091
28.730	211	215	0.0039063
28.740	213	213	0.0038579
28.750	185	212	0.0044444
28.760	219	211	0.0037638
28.770	211	210	0.0039063
28.780	198	209	0.0041623
28.790	221	209	0.0037180
28.800	176	208	0.0046913
28.810	205	208	0.0040058
28.820	199	207	0.0041091
28.830	220	207	0.0037638
28.840	187	207	0.0043858
28.850	192	207	0.0042719
28.860	188	207	0.0043858
28.870	220	207	0.0037180
28.880	219	207	0.0037638
28.890	221	208	0.0037180
28.900	196	208	0.0042166
28.910	226	208	0.0036290
28.920	211	207	0.0039063
28.930	157	207	0.0052510
28.940	180	206	0.0045654
28.950	215	205	0.0038104
28.960	196	204	0.0042166
28.970	208	203	0.0039555

28.980	209	203	0.0039555
28.990	213	202	0.0038579
29.000	197	202	0.0041623
29.010	176	201	0.0046913
29.020	188	201	0.0043858
29.030	218	201	0.0037638
29.040	210	201	0.0039063
29.050	199	201	0.0041091
29.060	241	201	0.0034199
29.070	188	201	0.0043858
29.080	217	201	0.0038104
29.090	211	201	0.0039063
29.100	177	201	0.0046277
29.110	195	201	0.0042166
29.120	177	201	0.0046277
29.130	201	201	0.0041091
29.140	184	201	0.0044444
29.150	190	201	0.0043283
29.160	200	202	0.0041091
29.170	199	202	0.0041623
29.180	204	202	0.0040570
29.190	212	203	0.0039063
29.200	213	204	0.0038579
29.210	196	205	0.0042166
29.220	198	206	0.0041623
29.230	211	207	0.0039063
29.240	205	208	0.0040570
29.250	204	210	0.0040570
29.260	223	213	0.0037180
29.270	222	216	0.0037180
29.280	212	220	0.0039063
29.290	228	225	0.0036290
29.300	240	231	0.0034602
29.310	216	237	0.0038104
29.320	222	243	0.0037180
29.330	279	246	0.0029537
29.340	236	246	0.0035013
29.350	258	243	0.0031919
29.360	255	237	0.0032653
29.370	222	232	0.0037180
29.380	223	228	0.0037180
29.390	206	224	0.0040058
29.400	230	222	0.0035856
29.410	194	220	0.0042719
29.420	210	219	0.0039555
29.430	231	218	0.0035856
29.440	220	218	0.0037638
29.450	217	218	0.0038579
29.460	211	218	0.0039555
29.470	214	219	0.0039063
29.480	222	219	0.0037180
29.490	195	219	0.0042719
29.500	222	219	0.0037638
29.510	224	219	0.0037180

29.520	202	219	0.0041091
29.530	228	220	0.0036290
29.540	198	220	0.0042166
29.550	205	221	0.0040570
29.560	206	222	0.0040570
29.570	206	224	0.0040570
29.580	233	225	0.0035856
29.590	221	228	0.0037638
29.600	243	231	0.0034199
29.610	246	234	0.0033802
29.620	223	238	0.0037180
29.630	236	242	0.0035431
29.640	233	247	0.0035856
29.650	258	252	0.0032283
29.660	255	257	0.0032653
29.670	275	263	0.0030524
29.680	259	269	0.0032283
29.690	297	276	0.0027995
29.700	257	283	0.0032653
29.710	325	291	0.0025767
29.720	301	299	0.0027701
29.730	294	306	0.0028293
29.740	292	310	0.0028597
29.750	335	313	0.0024752
29.760	291	313	0.0028597
29.770	287	310	0.0028905
29.780	335	305	0.0024752
29.790	291	299	0.0028597
29.800	299	291	0.0027701
29.810	314	284	0.0026570
29.820	321	277	0.0026031
29.830	280	271	0.0029861
29.840	254	266	0.0032653
29.850	255	261	0.0032653
29.860	248	257	0.0033412
29.870	265	253	0.0031562
29.880	237	249	0.0035013
29.890	232	246	0.0035856
29.900	241	243	0.0034602
29.910	228	241	0.0036731
29.920	259	238	0.0032283
29.930	261	235	0.0031919
29.940	250	232	0.0033029
29.950	237	230	0.0035013
29.960	243	228	0.0034199
29.970	200	226	0.0041623
29.980	227	224	0.0036731
29.990	198	222	0.0042166
30.000	203	221	0.0102030
30.010	246	220	0.0050299
30.020	196	219	0.0062988
30.030	217	218	0.0057392
30.040	205	217	0.0061035
30.050	201	217	0.0062000

30.060	189	217	0.0066098
30.070	200	217	0.0062000
30.080	207	217	0.0060093
30.090	207	217	0.0060093
30.100	210	218	0.0059172
30.110	197	218	0.0062988
30.120	204	219	0.0060093
30.130	202	220	0.0061035
30.140	209	222	0.0059172
30.150	214	223	0.0058272
30.160	240	225	0.0051757
30.170	198	227	0.0062000
30.180	196	229	0.0062988
30.190	213	230	0.0058272
30.200	207	232	0.0060093
30.210	208	233	0.0059172
30.220	210	234	0.0058272
30.230	218	235	0.0056532
30.240	202	237	0.0061035
30.250	210	238	0.0059172
30.260	224	240	0.0054870
30.270	213	242	0.0057392
30.280	234	245	0.0052510
30.290	247	249	0.0049593
30.300	250	253	0.0048902
30.310	245	257	0.0050299
30.320	255	263	0.0048225
30.330	249	269	0.0048902
30.340	276	276	0.0044444
30.350	281	284	0.0043858
30.360	296	293	0.0041623
30.370	315	304	0.0039063
30.380	309	317	0.0039555
30.390	333	330	0.0036731
30.400	370	346	0.0033029
30.410	370	363	0.0033029
30.420	406	382	0.0030190
30.430	384	401	0.0031919
30.440	422	420	0.0028905
30.450	451	437	0.0027127
30.460	466	450	0.0026298
30.470	464	456	0.0026298
30.480	455	453	0.0026846
30.490	461	444	0.0026570
30.500	447	431	0.0027412
30.510	439	416	0.0027701
30.520	403	400	0.0030190
30.530	421	386	0.0029218
30.540	353	374	0.0034602
30.550	339	364	0.0036290
30.560	363	355	0.0033802
30.570	332	347	0.0036731
30.580	337	340	0.0036290
30.590	328	334	0.0037180

30.600	341	329	0.0035856
30.610	303	326	0.0040570
30.620	305	324	0.0040058
30.630	331	324	0.0037180
30.640	319	325	0.0038579
30.650	322	327	0.0038104
30.660	308	330	0.0040058
30.670	339	332	0.0036290
30.680	311	335	0.0039555
30.690	323	337	0.0038104
30.700	310	337	0.0039555
30.710	340	336	0.0036290
30.720	338	333	0.0036290
30.730	275	328	0.0044444
30.740	313	322	0.0039063
30.750	293	315	0.0042166
30.760	301	308	0.0041091
30.770	288	300	0.0042719
30.780	330	293	0.0037180
30.790	306	287	0.0040058
30.800	273	281	0.0045043
30.810	262	276	0.0046913
30.820	278	272	0.0044444
30.830	291	269	0.0042166
30.840	245	267	0.0050299
30.850	247	266	0.0049593
30.860	269	264	0.0045654
30.870	249	262	0.0049593
30.880	221	259	0.0055692
30.890	246	256	0.0050299
30.900	241	251	0.0051020
30.910	243	247	0.0051020
30.920	248	244	0.0049593
30.930	237	241	0.0051757
30.940	244	239	0.0051020
30.950	239	237	0.0051757
30.960	240	236	0.0051757
30.970	236	236	0.0052510
30.980	244	236	0.0051020
30.990	239	236	0.0051757
31.000	251	236	0.0049593
31.010	223	236	0.0055692
31.020	230	236	0.0053279
31.030	200	235	0.0062000
31.040	253	235	0.0048902
31.050	232	234	0.0053279
31.060	228	234	0.0054066
31.070	207	234	0.0060093
31.080	229	235	0.0054066
31.090	226	236	0.0054870
31.100	230	237	0.0054066
31.110	200	239	0.0062000
31.120	237	241	0.0051757
31.130	221	243	0.0055692

31.140	217	246	0.0056532
31.150	234	250	0.0052510
31.160	248	254	0.0049593
31.170	252	259	0.0048902
31.180	264	264	0.0046913
31.190	256	270	0.0048225
31.200	280	276	0.0043858
31.210	289	284	0.0042719
31.220	272	291	0.0045043
31.230	286	299	0.0042719
31.240	281	307	0.0043858
31.250	308	316	0.0040058
31.260	344	323	0.0035856
31.270	340	331	0.0035856
31.280	342	338	0.0035856
31.290	358	344	0.0034199
31.300	346	351	0.0035431
31.310	369	359	0.0033029
31.320	383	367	0.0031919
31.330	416	378	0.0029537
31.340	459	390	0.0026570
31.350	411	405	0.0029861
31.360	413	422	0.0029537
31.370	440	439	0.0027701
31.380	445	455	0.0027412
31.390	479	468	0.0025508
31.400	443	474	0.0027412
31.410	434	473	0.0027995
31.420	458	464	0.0026570
31.430	399	447	0.0030524
31.440	418	426	0.0029218
31.450	393	403	0.0030864
31.460	392	380	0.0030864
31.470	337	358	0.0035856
31.480	333	339	0.0036290
31.490	301	322	0.0040058
31.500	310	308	0.0039063
31.510	307	296	0.0039555
31.520	318	285	0.0038104
31.530	280	277	0.0043283
31.540	264	270	0.0045654
31.550	276	263	0.0043858
31.560	232	259	0.0052510
31.570	237	254	0.0051020
31.580	218	251	0.0055692
31.590	229	249	0.0052510
31.600	248	247	0.0048902
31.610	257	246	0.0046913
31.620	250	245	0.0048225
31.630	251	245	0.0048225
31.640	250	246	0.0048225
31.650	251	247	0.0048225
31.660	229	250	0.0052510
31.670	262	253	0.0046277

31.680	257	257	0.0046913
31.690	267	263	0.0045043
31.700	258	271	0.0046913
31.710	275	281	0.0043858
31.720	291	293	0.0041623
31.730	330	308	0.0036731
31.740	300	324	0.0040058
31.750	311	340	0.0038579
31.760	328	351	0.0036731
31.770	343	353	0.0035013
31.780	306	346	0.0039555
31.790	312	332	0.0038579
31.800	318	315	0.0038104
31.810	278	301	0.0043858
31.820	309	289	0.0039063
31.830	297	279	0.0040570
31.840	260	272	0.0046277
31.850	272	267	0.0044444
31.860	268	263	0.0045043
31.870	236	261	0.0051020
31.880	276	261	0.0043858
31.890	221	261	0.0054870
31.900	224	262	0.0054066
31.910	278	265	0.0043858
31.920	272	269	0.0044444
31.930	290	275	0.0041623
31.940	287	282	0.0042166
31.950	270	291	0.0045043
31.960	313	302	0.0038579
31.970	306	317	0.0039555
31.980	366	335	0.0033029
31.990	332	357	0.0036731
32.000	384	385	0.0031562
32.010	471	419	0.0025767
32.020	512	458	0.0023795
32.030	599	499	0.0020291
32.040	648	536	0.0018740
32.050	604	564	0.0020109
32.060	646	573	0.0018904
32.070	664	564	0.0018263
32.080	573	538	0.0021236
32.090	528	506	0.0023114
32.100	501	474	0.0024267
32.110	455	446	0.0026846
32.120	471	424	0.0026031
32.130	406	406	0.0030190
32.140	433	393	0.0028293
32.150	402	382	0.0030524
32.160	374	373	0.0032653
32.170	384	365	0.0031919
32.180	368	358	0.0033412
32.190	383	351	0.0031919
32.200	340	346	0.0035856
32.210	351	341	0.0035013

32.220	333	337	0.0036731
32.230	338	333	0.0036290
32.240	361	331	0.0033802
32.250	330	329	0.0037180
32.260	364	328	0.0033802
32.270	320	326	0.0038104
32.280	312	324	0.0039555
32.290	350	322	0.0035013
32.300	343	319	0.0035856
32.310	317	316	0.0038579
32.320	326	313	0.0037638
32.330	321	309	0.0038104
32.340	294	306	0.0041623
32.350	298	303	0.0041091
32.360	316	301	0.0039063
32.370	317	299	0.0038579
32.380	301	299	0.0040570
32.390	322	300	0.0038104
32.400	304	302	0.0040058
32.410	286	306	0.0042719
32.420	310	311	0.0039555
32.430	336	319	0.0036290
32.440	342	330	0.0035856
32.450	325	343	0.0037638
32.460	374	361	0.0032653
32.470	426	383	0.0028597
32.480	441	411	0.0027701
32.490	464	446	0.0026298
32.500	506	488	0.0024029
32.510	505	536	0.0024029
32.520	508	586	0.0024029
32.530	570	629	0.0021433
32.540	549	657	0.0022250
32.550	578	663	0.0021042
32.560	537	647	0.0022676
32.570	577	617	0.0021042
32.580	527	580	0.0023114
32.590	559	541	0.0021633
32.600	466	504	0.0026031
32.610	485	468	0.0025000
32.620	508	436	0.0023795
32.630	424	408	0.0028597
32.640	406	383	0.0029861
32.650	384	362	0.0031562
32.660	382	345	0.0031562
32.670	366	330	0.0033029
32.680	315	319	0.0038104
32.690	320	309	0.0037638
32.700	314	302	0.0038104
32.710	280	296	0.0042719
32.720	294	292	0.0041091
32.730	286	290	0.0042166
32.740	287	288	0.0041623
32.750	268	289	0.0045043

32.760	277	290	0.0043283
32.770	277	293	0.0043283
32.780	305	297	0.0039063
32.790	290	302	0.0041623
32.800	308	308	0.0039063
32.810	294	315	0.0040570
32.820	321	324	0.0037180
32.830	339	332	0.0035431
32.840	352	341	0.0034199
32.850	353	351	0.0033802
32.860	363	361	0.0033029
32.870	372	372	0.0032283
32.880	380	383	0.0031562
32.890	392	393	0.0030524
32.900	377	402	0.0031919
32.910	391	407	0.0030524
32.920	402	409	0.0029861
32.930	384	407	0.0031210
32.940	360	401	0.0033029
32.950	387	391	0.0030864
32.960	379	379	0.0031562
32.970	375	365	0.0031919
32.980	357	350	0.0033412
32.990	321	335	0.0037180
33.000	284	321	0.0042166
33.010	282	307	0.0042166
33.020	321	295	0.0037180
33.030	292	284	0.0041091
33.040	280	274	0.0042719
33.050	281	266	0.0042166
33.060	303	258	0.0039555
33.070	290	251	0.0041091
33.080	233	245	0.0051020
33.090	238	239	0.0050299
33.100	234	234	0.0051020
33.110	238	230	0.0050299
33.120	238	226	0.0050299
33.130	249	222	0.0048225
33.140	225	219	0.0053279
33.150	231	216	0.0051757
33.160	231	214	0.0051757
33.170	224	212	0.0053279
33.180	199	210	0.0060093
33.190	220	208	0.0054870
33.200	221	206	0.0054066
33.210	231	205	0.0051757
33.220	186	203	0.0064000
33.230	219	202	0.0054870
33.240	194	200	0.0062000
33.250	198	199	0.0061035
33.260	191	198	0.0062988
33.270	209	197	0.0057392
33.280	214	196	0.0055692
33.290	195	195	0.0062000

33.300	204	195	0.0059172
33.310	188	194	0.0064000
33.320	175	193	0.0068301
33.330	193	193	0.0062000
33.340	179	192	0.0067186
33.350	198	191	0.0061035
33.360	181	191	0.0066098
33.370	179	190	0.0067186
33.380	178	190	0.0068301
33.390	193	189	0.0062000
33.400	174	189	0.0069444
33.410	198	189	0.0061035
33.420	195	188	0.0062000
33.430	191	188	0.0062988
33.440	186	188	0.0065036
33.450	187	187	0.0065036
33.460	172	187	0.0070616
33.470	182	187	0.0066098
33.480	186	187	0.0065036
33.490	195	187	0.0062000
33.500	165	186	0.0073051
33.510	149	186	0.0081162
33.520	183	186	0.0066098
33.530	182	186	0.0066098
33.540	193	186	0.0062988
33.550	169	186	0.0071818
33.560	212	186	0.0057392
33.570	198	186	0.0061035
33.580	198	186	0.0061035
33.590	164	185	0.0074316
33.600	181	185	0.0067186
33.610	178	185	0.0068301
33.620	210	185	0.0057392
33.630	168	185	0.0071818
33.640	203	185	0.0059172
33.650	189	186	0.0064000
33.660	205	186	0.0059172
33.670	215	186	0.0056532
33.680	193	186	0.0062988
33.690	185	186	0.0065036
33.700	209	186	0.0057392
33.710	176	187	0.0068301
33.720	188	187	0.0064000
33.730	196	187	0.0062000
33.740	200	188	0.0060093
33.750	197	188	0.0061035
33.760	201	188	0.0060093
33.770	188	189	0.0064000
33.780	192	190	0.0062988
33.790	178	190	0.0068301
33.800	195	191	0.0062000
33.810	194	193	0.0062000
33.820	212	194	0.0056532
33.830	208	195	0.0058272

33.840	232	197	0.0051757
33.850	197	199	0.0061035
33.860	207	202	0.0058272
33.870	207	204	0.0058272
33.880	228	208	0.0052510
33.890	185	212	0.0065036
33.900	228	217	0.0052510
33.910	245	223	0.0048902
33.920	222	229	0.0054066
33.930	246	236	0.0048902
33.940	246	241	0.0048902
33.950	279	245	0.0042719
33.960	243	248	0.0048902
33.970	280	249	0.0042719
33.980	247	250	0.0048225
33.990	261	252	0.0045654
34.000	266	255	0.0045043
34.010	271	259	0.0043858
34.020	275	264	0.0043283
34.030	271	268	0.0043858
34.040	267	271	0.0044444
34.050	266	272	0.0044444
34.060	265	270	0.0045043
34.070	281	266	0.0042166
34.080	266	263	0.0044444
34.090	256	259	0.0046277
34.100	282	257	0.0042166
34.110	263	255	0.0045043
34.120	263	255	0.0045043
34.130	257	255	0.0046277
34.140	292	255	0.0040570
34.150	284	256	0.0041623
34.160	281	256	0.0042166
34.170	268	257	0.0043858
34.180	260	256	0.0045654
34.190	266	256	0.0044444
34.200	266	255	0.0044444
34.210	247	255	0.0047562
34.220	267	254	0.0044444
34.230	257	255	0.0046277
34.240	280	255	0.0042166
34.250	269	257	0.0043858
34.260	295	260	0.0040058
34.270	267	264	0.0044444
34.280	268	270	0.0043858
34.290	271	276	0.0043283
34.300	290	282	0.0040570
34.310	310	286	0.0038104
34.320	331	288	0.0035856
34.330	271	287	0.0043283
34.340	304	284	0.0038579
34.350	286	280	0.0041091
34.360	288	276	0.0041091
34.370	300	273	0.0039555

34.380	290	271	0.0040570
34.390	288	270	0.0041091
34.400	270	269	0.0043858
34.410	284	268	0.0041623
34.420	279	267	0.0042166
34.430	275	267	0.0042719
34.440	291	266	0.0040570
34.450	263	265	0.0045043
34.460	290	264	0.0040570
34.470	285	264	0.0041623
34.480	267	263	0.0044444
34.490	257	263	0.0045654
34.500	258	263	0.0045654
34.510	283	263	0.0041623
34.520	283	264	0.0041623
34.530	289	264	0.0041091
34.540	269	264	0.0043858
34.550	259	264	0.0045654
34.560	271	264	0.0043858
34.570	264	264	0.0045043
34.580	282	264	0.0041623
34.590	267	265	0.0044444
34.600	307	266	0.0038579
34.610	273	268	0.0043283
34.620	265	270	0.0044444
34.630	272	273	0.0043283
34.640	271	277	0.0043858
34.650	303	281	0.0039063
34.660	308	287	0.0038579
34.670	282	293	0.0042166
34.680	312	300	0.0038104
34.690	305	308	0.0039063
34.700	350	317	0.0033802
34.710	338	328	0.0035013
34.720	398	340	0.0029861
34.730	378	355	0.0031562
34.740	357	370	0.0033412
34.750	410	386	0.0028905
34.760	419	402	0.0028293
34.770	394	415	0.0030190
34.780	412	424	0.0028905
34.790	432	429	0.0027412
34.800	397	427	0.0029861
34.810	399	421	0.0029861
34.820	385	410	0.0030864
34.830	383	395	0.0030864
34.840	362	379	0.0032653
34.850	347	362	0.0034199
34.860	349	345	0.0033802
34.870	333	329	0.0035856
34.880	314	315	0.0037638
34.890	323	302	0.0036731
34.900	303	292	0.0039063
34.910	292	282	0.0040570

34.920	271	275	0.0043858
34.930	313	269	0.0038104
34.940	247	264	0.0048225
34.950	281	260	0.0042166
34.960	264	258	0.0045043
34.970	261	256	0.0045654
34.980	266	256	0.0044444
34.990	261	257	0.0045654
35.000	270	259	0.0043858
35.010	284	262	0.0042166
35.020	252	267	0.0047562
35.030	306	273	0.0039063
35.040	297	282	0.0040058
35.050	319	292	0.0037180
35.060	327	306	0.0036290
35.070	356	322	0.0033412
35.080	316	341	0.0037638
35.090	359	363	0.0033029
35.100	349	387	0.0034199
35.110	414	409	0.0028905
35.120	413	427	0.0028905
35.130	428	436	0.0027701
35.140	378	436	0.0031562
35.150	373	425	0.0031919
35.160	350	408	0.0033802
35.170	353	388	0.0033802
35.180	347	371	0.0034199
35.190	357	358	0.0033412
35.200	349	352	0.0034199
35.210	356	353	0.0033412
35.220	375	364	0.0031562
35.230	392	381	0.0030190
35.240	401	398	0.0029537
35.250	351	401	0.0033802
35.260	343	383	0.0034602
35.270	365	350	0.0032653
35.280	304	317	0.0039063
35.290	281	290	0.0042166
35.300	271	270	0.0043858
35.310	245	255	0.0048225
35.320	250	245	0.0047562
35.330	242	238	0.0048902
35.340	245	233	0.0048225
35.350	240	230	0.0048902
35.360	244	228	0.0048225
35.370	246	227	0.0048225
35.380	251	227	0.0046913
35.390	216	227	0.0054870
35.400	233	227	0.0050299
35.410	247	228	0.0047562
35.420	223	229	0.0053279
35.430	264	230	0.0044444
35.440	243	232	0.0048225
35.450	256	234	0.0045654

35.460	251	237	0.0046913
35.470	224	241	0.0052510
35.480	273	245	0.0043283
35.490	286	248	0.0041091
35.500	256	251	0.0045654
35.510	272	253	0.0043283
35.520	276	254	0.0042166
35.530	236	254	0.0049593
35.540	255	252	0.0045654
35.550	255	249	0.0045654
35.560	240	245	0.0048902
35.570	280	242	0.0041623
35.580	241	238	0.0048225
35.590	227	235	0.0051757
35.600	232	232	0.0050299
35.610	238	228	0.0048902
35.620	242	223	0.0048225
35.630	231	218	0.0050299
35.640	225	214	0.0051757
35.650	211	210	0.0054870
35.660	229	206	0.0051020
35.670	221	203	0.0052510
35.680	204	200	0.0057392
35.690	194	198	0.0060093
35.700	207	196	0.0055692
35.710	201	195	0.0057392
35.720	232	193	0.0050299
35.730	198	192	0.0058272
35.740	197	191	0.0059172
35.750	186	190	0.0062000
35.760	171	189	0.0068301
35.770	189	189	0.0062000
35.780	194	188	0.0060093
35.790	196	188	0.0059172
35.800	205	188	0.0056532
35.810	190	187	0.0061035
35.820	171	187	0.0068301
35.830	175	187	0.0066098
35.840	213	187	0.0054066
35.850	185	187	0.0062988
35.860	192	188	0.0060093
35.870	194	188	0.0060093
35.880	203	188	0.0057392
35.890	167	189	0.0069444
35.900	198	189	0.0058272
35.910	198	190	0.0058272
35.920	181	191	0.0064000
35.930	197	191	0.0059172
35.940	185	192	0.0062988
35.950	176	193	0.0066098
35.960	200	195	0.0058272
35.970	179	196	0.0065036
35.980	205	198	0.0056532
35.990	202	199	0.0057392

36.000	204	201	0.0056532
36.010	189	204	0.0061035
36.020	196	206	0.0059172
36.030	213	209	0.0054870
36.040	205	212	0.0056532
36.050	211	216	0.0054870
36.060	224	220	0.0051757
36.070	222	225	0.0052510
36.080	206	231	0.0056532
36.090	237	238	0.0048902
36.100	234	246	0.0049593
36.110	265	255	0.0043858
36.120	244	266	0.0047562
36.130	279	278	0.0041623
36.140	279	292	0.0041623
36.150	293	307	0.0039555
36.160	300	323	0.0038579
36.170	285	340	0.0040570
36.180	370	354	0.0031562
36.190	301	366	0.0038579
36.200	361	374	0.0032283
36.210	364	379	0.0031919
36.220	394	383	0.0029537
36.230	354	388	0.0033029
36.240	391	396	0.0029861
36.250	421	410	0.0027701
36.260	471	430	0.0024752
36.270	495	457	0.0023565
36.280	530	488	0.0022041
36.290	540	518	0.0021633
36.300	588	540	0.0019930
36.310	551	545	0.0021236
36.320	538	532	0.0021633
36.330	546	505	0.0021433
36.340	502	475	0.0023338
36.350	442	447	0.0026570
36.360	493	426	0.0023795
36.370	433	412	0.0027127
36.380	442	407	0.0026570
36.390	436	408	0.0026846
36.400	414	417	0.0028293
36.410	452	431	0.0025767
36.420	455	451	0.0025767
36.430	472	474	0.0024752
36.440	419	496	0.0027995
36.450	474	513	0.0024752
36.460	527	521	0.0022250
36.470	499	521	0.0023565
36.480	525	515	0.0022461
36.490	524	508	0.0022461
36.500	475	501	0.0024752
36.510	487	496	0.0024029
36.520	529	492	0.0022250
36.530	481	487	0.0024507

36.540	507	480	0.0023114
36.550	477	472	0.0024507
36.560	482	460	0.0024267
36.570	433	446	0.0027127
36.580	432	431	0.0027127
36.590	418	414	0.0027995
36.600	440	396	0.0026846
36.610	428	379	0.0027412
36.620	372	363	0.0031562
36.630	358	348	0.0032653
36.640	351	333	0.0033412
36.650	332	320	0.0035431
36.660	303	307	0.0038579
36.670	304	295	0.0038579
36.680	281	283	0.0041623
36.690	276	273	0.0042166
36.700	242	263	0.0048225
36.710	259	255	0.0045043
36.720	261	247	0.0045043
36.730	232	241	0.0050299
36.740	236	235	0.0049593
36.750	216	230	0.0054066
36.760	203	225	0.0057392
36.770	238	221	0.0048902
36.780	195	218	0.0060093
36.790	179	214	0.0065036
36.800	206	211	0.0056532
36.810	213	209	0.0054870
36.820	211	207	0.0055692
36.830	187	205	0.0062000
36.840	202	203	0.0058272
36.850	178	202	0.0066098
36.860	148	200	0.0078315
36.870	199	199	0.0058272
36.880	194	198	0.0060093
36.890	191	197	0.0061035
36.900	186	197	0.0062988
36.910	164	196	0.0070616
36.920	177	195	0.0066098
36.930	202	194	0.0057392
36.940	176	193	0.0066098
36.950	181	192	0.0064000
36.960	154	191	0.0075614
36.970	179	190	0.0065036
36.980	195	189	0.0060093
36.990	179	188	0.0065036
37.000	185	187	0.0062988
37.010	171	187	0.0068301
37.020	186	186	0.0062988
37.030	174	186	0.0067186
37.040	177	186	0.0066098
37.050	170	186	0.0068301
37.060	166	187	0.0070616
37.070	187	187	0.0062000

37.080	180	188	0.0065036
37.090	179	189	0.0065036
37.100	183	190	0.0062988
37.110	211	192	0.0054870
37.120	194	194	0.0060093
37.130	184	195	0.0062988
37.140	189	196	0.0062000
37.150	199	197	0.0058272
37.160	189	197	0.0061035
37.170	218	197	0.0053279
37.180	201	197	0.0057392
37.190	194	197	0.0060093
37.200	192	198	0.0060093
37.210	197	199	0.0059172
37.220	219	201	0.0053279
37.230	212	202	0.0054870
37.240	224	205	0.0051757
37.250	209	207	0.0055692
37.260	222	210	0.0051757
37.270	201	213	0.0057392
37.280	232	216	0.0049593
37.290	259	219	0.0044444
37.300	211	222	0.0054870
37.310	206	224	0.0055692
37.320	224	226	0.0051757
37.330	237	228	0.0048902
37.340	235	229	0.0048902
37.350	225	230	0.0051020
37.360	231	229	0.0050299
37.370	263	228	0.0043858
37.380	239	227	0.0048225
37.390	238	225	0.0048225
37.400	259	224	0.0044444
37.410	234	222	0.0049593
37.420	223	220	0.0051757
37.430	222	218	0.0051757
37.440	216	217	0.0053279
37.450	236	216	0.0048902
37.460	244	216	0.0046913
37.470	206	216	0.0055692
37.480	236	216	0.0048902
37.490	204	216	0.0056532
37.500	219	217	0.0052510
37.510	225	218	0.0051020
37.520	225	220	0.0051020
37.530	200	221	0.0057392
37.540	217	222	0.0052510
37.550	218	223	0.0052510
37.560	222	223	0.0051757
37.570	228	223	0.0050299
37.580	202	222	0.0056532
37.590	221	221	0.0051757
37.600	231	219	0.0049593
37.610	222	217	0.0051757

37.620	224	215	0.0051020
37.630	218	213	0.0052510
37.640	228	211	0.0050299
37.650	220	209	0.0051757
37.660	243	207	0.0046913
37.670	217	205	0.0052510
37.680	215	203	0.0053279
37.690	195	200	0.0058272
37.700	216	197	0.0053279
37.710	183	195	0.0062000
37.720	180	192	0.0062988
37.730	203	190	0.0055692
37.740	196	188	0.0058272
37.750	181	186	0.0062988
37.760	187	185	0.0061035
37.770	170	184	0.0067186
37.780	203	183	0.0055692
37.790	171	183	0.0066098
37.800	194	183	0.0059172
37.810	190	183	0.0060093
37.820	184	183	0.0062000
37.830	171	183	0.0066098
37.840	167	184	0.0068301
37.850	199	184	0.0057392
37.860	182	185	0.0062000
37.870	166	186	0.0068301
37.880	191	187	0.0059172
37.890	167	187	0.0068301
37.900	177	187	0.0064000
37.910	170	186	0.0067186
37.920	161	185	0.0070616
37.930	167	183	0.0068301
37.940	175	181	0.0065036
37.950	189	180	0.0060093
37.960	168	178	0.0067186
37.970	167	176	0.0068301
37.980	198	174	0.0057392
37.990	159	173	0.0071818
38.000	167	172	0.0068301
38.010	173	171	0.0066098
38.020	163	170	0.0069444
38.030	159	170	0.0071818
38.040	166	169	0.0068301
38.050	165	169	0.0068301
38.060	161	169	0.0070616
38.070	169	169	0.0067186
38.080	178	169	0.0064000
38.090	176	169	0.0065036
38.100	175	169	0.0065036
38.110	183	170	0.0062000
38.120	165	170	0.0069444
38.130	165	171	0.0069444
38.140	163	172	0.0069444
38.150	189	173	0.0060093

38.160	187	175	0.0061035
38.170	181	177	0.0062988
38.180	171	179	0.0067186
38.190	166	181	0.0068301
38.200	190	183	0.0060093
38.210	184	186	0.0062000
38.220	182	188	0.0062988
38.230	174	189	0.0066098
38.240	198	190	0.0058272
38.250	184	189	0.0062000
38.260	192	188	0.0059172
38.270	189	187	0.0061035
38.280	207	185	0.0055692
38.290	180	183	0.0064000
38.300	194	181	0.0059172
38.310	201	180	0.0057392
38.320	209	179	0.0054870
38.330	193	178	0.0059172
38.340	175	177	0.0066098
38.350	179	177	0.0064000
38.360	199	176	0.0057392
38.370	177	175	0.0065036
38.380	194	175	0.0059172
38.390	178	175	0.0065036
38.400	185	175	0.0062000
38.410	162	176	0.0070616
38.420	176	177	0.0065036
38.430	146	179	0.0078315
38.440	163	182	0.0070616
38.450	163	186	0.0070616
38.460	171	191	0.0067186
38.470	171	195	0.0067186
38.480	173	199	0.0066098
38.490	184	199	0.0062000
38.500	177	197	0.0065036
38.510	184	192	0.0062988
38.520	183	187	0.0062988
38.530	164	182	0.0069444
38.540	191	179	0.0060093
38.550	164	176	0.0069444
38.560	187	174	0.0061035
38.570	184	172	0.0062000
38.580	159	171	0.0071818
38.590	190	171	0.0061035
38.600	159	170	0.0071818
38.610	170	170	0.0067186
38.620	182	170	0.0062988
38.630	177	170	0.0065036
38.640	184	170	0.0062000
38.650	169	170	0.0068301
38.660	169	171	0.0068301
38.670	170	171	0.0068301
38.680	162	172	0.0070616
38.690	181	172	0.0064000

38.700	170	173	0.0067186
38.710	163	174	0.0070616
38.720	176	175	0.0065036
38.730	189	176	0.0061035
38.740	199	177	0.0057392
38.750	179	179	0.0064000
38.760	161	180	0.0070616
38.770	180	182	0.0064000
38.780	166	184	0.0069444
38.790	173	187	0.0066098
38.800	182	190	0.0062988
38.810	195	193	0.0059172
38.820	217	197	0.0052510
38.830	215	201	0.0053279
38.840	227	206	0.0050299
38.850	214	211	0.0053279
38.860	208	217	0.0054870
38.870	223	222	0.0051020
38.880	199	227	0.0057392
38.890	215	231	0.0053279
38.900	241	234	0.0047562
38.910	225	236	0.0051020
38.920	232	236	0.0048902
38.930	225	235	0.0051020
38.940	228	233	0.0050299
38.950	256	231	0.0044444
38.960	231	229	0.0049593
38.970	247	226	0.0046277
38.980	253	224	0.0045043
38.990	229	223	0.0049593
39.000	202	222	0.0056532
39.010	237	222	0.0048225
39.020	264	223	0.0043283
39.030	245	224	0.0046277
39.040	232	227	0.0048902
39.050	238	230	0.0047562
39.060	260	235	0.0043858
39.070	235	241	0.0048225
39.080	266	249	0.0042719
39.090	234	258	0.0048225
39.100	260	271	0.0043858
39.110	259	286	0.0043858
39.120	288	303	0.0039555
39.130	296	320	0.0038104
39.140	298	333	0.0038104
39.150	319	336	0.0035431
39.160	295	330	0.0038104
39.170	307	320	0.0036731
39.180	265	309	0.0042719
39.190	324	300	0.0035013
39.200	286	294	0.0039555
39.210	306	290	0.0036731
39.220	304	288	0.0037180
39.230	277	288	0.0040570

39.240	305	289	0.0036731
39.250	312	291	0.0035856
39.260	295	294	0.0038104
39.270	304	299	0.0037180
39.280	319	307	0.0035431
39.290	346	316	0.0032283
39.300	340	326	0.0033029
39.310	376	336	0.0029861
39.320	344	343	0.0032653
39.330	345	346	0.0032653
39.340	334	343	0.0033412
39.350	352	334	0.0031919
39.360	342	322	0.0033029
39.370	290	308	0.0038579
39.380	347	295	0.0032283
39.390	282	283	0.0039555
39.400	318	275	0.0035431
39.410	304	270	0.0036731
39.420	284	268	0.0039555
39.430	279	269	0.0040058
39.440	255	273	0.0043858
39.450	260	279	0.0043283
39.460	271	284	0.0041623
39.470	267	285	0.0042166
39.480	245	280	0.0045654
39.490	267	271	0.0042166
39.500	243	260	0.0046277
39.510	295	251	0.0038104
39.520	244	243	0.0045654
39.530	277	238	0.0040570
39.540	242	236	0.0046277
39.550	241	235	0.0046277
39.560	235	235	0.0047562
39.570	234	237	0.0048225
39.580	280	241	0.0040058
39.590	265	246	0.0042166
39.600	254	252	0.0044444
39.610	282	260	0.0040058
39.620	287	268	0.0039063
39.630	290	277	0.0038579
39.640	284	285	0.0039555
39.650	294	290	0.0038104
39.660	273	293	0.0041091
39.670	282	292	0.0039555
39.680	289	288	0.0039063
39.690	265	282	0.0042166
39.700	268	276	0.0042166
39.710	268	271	0.0042166
39.720	270	266	0.0041623
39.730	296	262	0.0038104
39.740	261	260	0.0043283
39.750	274	257	0.0041091
39.760	244	255	0.0046277
39.770	259	254	0.0043283

39.780	252	252	0.0044444
39.790	264	250	0.0042719
39.800	250	248	0.0045043
39.810	247	246	0.0045654
39.820	259	243	0.0043283
39.830	246	240	0.0045654
39.840	233	236	0.0048225
39.850	247	233	0.0045654
39.860	217	229	0.0051757
39.870	226	225	0.0049593
39.880	222	222	0.0051020
39.890	197	218	0.0057392
39.900	231	215	0.0048902
39.910	204	212	0.0055692
39.920	211	209	0.0053279
39.930	197	207	0.0057392
39.940	195	205	0.0058272
39.950	175	203	0.0065036
39.960	200	201	0.0056532
39.970	204	199	0.0055692
39.980	185	198	0.0061035
39.990	203	198	0.0055692
40.000	192	197	0.0059172
40.010	223	197	0.0051020
40.020	205	198	0.0054870
40.030	210	198	0.0054066
40.040	206	199	0.0054870
40.050	214	201	0.0053279
40.060	216	203	0.0052510
40.070	188	206	0.0060093
40.080	201	209	0.0056532
40.090	217	213	0.0052510
40.100	223	218	0.0051020
40.110	248	224	0.0045654
40.120	233	230	0.0048902
40.130	228	237	0.0049593
40.140	240	245	0.0046913
40.150	280	254	0.0040570
40.160	247	262	0.0046277
40.170	258	269	0.0043858
40.180	268	275	0.0042166
40.190	231	278	0.0048902
40.200	314	279	0.0036290
40.210	245	276	0.0046277
40.220	270	271	0.0042166
40.230	269	265	0.0042166
40.240	232	257	0.0048902
40.250	269	250	0.0042166
40.260	255	242	0.0044444
40.270	231	236	0.0048902
40.280	232	231	0.0048902
40.290	233	227	0.0048902
40.300	218	224	0.0052510
40.310	250	222	0.0045654

40.320	259	221	0.0043858
40.330	248	222	0.0045654
40.340	256	225	0.0044444
40.350	245	229	0.0046277
40.360	222	235	0.0051020
40.370	255	243	0.0044444
40.380	254	254	0.0044444
40.390	287	268	0.0039555
40.400	229	284	0.0049593
40.410	284	300	0.0040058
40.420	248	315	0.0045654
40.430	298	323	0.0038104
40.440	266	321	0.0042166
40.450	288	312	0.0039063
40.460	268	297	0.0042166
40.470	257	281	0.0043858
40.480	252	265	0.0044444
40.490	265	253	0.0042166
40.500	246	243	0.0045654
40.510	235	235	0.0048225
40.520	239	230	0.0046913
40.530	232	226	0.0048225
40.540	247	224	0.0045654
40.550	192	223	0.0058272
40.560	224	222	0.0050299
40.570	231	223	0.0048902
40.580	236	225	0.0047562
40.590	247	226	0.0045043
40.600	259	227	0.0043283
40.610	229	228	0.0048902
40.620	240	227	0.0046913
40.630	236	224	0.0047562
40.640	215	220	0.0051757
40.650	224	215	0.0049593
40.660	192	210	0.0058272
40.670	209	205	0.0053279
40.680	192	201	0.0058272
40.690	187	197	0.0060093
40.700	165	194	0.0067186
40.710	202	191	0.0054870
40.720	190	188	0.0058272
40.730	167	186	0.0066098
40.740	185	184	0.0060093
40.750	180	182	0.0062000
40.760	166	181	0.0067186
40.770	183	180	0.0061035
40.780	175	179	0.0064000
40.790	191	178	0.0058272
40.800	173	178	0.0064000
40.810	198	177	0.0055692
40.820	168	177	0.0066098
40.830	165	177	0.0067186
40.840	172	177	0.0064000
40.850	177	177	0.0062988

40.860	190	177	0.0058272
40.870	175	178	0.0062988
40.880	187	178	0.0059172
40.890	187	179	0.0059172
40.900	174	180	0.0064000
40.910	170	181	0.0065036
40.920	182	182	0.0061035
40.930	157	184	0.0070616
40.940	172	186	0.0064000
40.950	184	188	0.0060093
40.960	179	190	0.0062000
40.970	189	192	0.0058272
40.980	214	195	0.0051757
40.990	194	198	0.0056532
41.000	188	201	0.0059172
41.010	217	204	0.0051020
41.020	187	208	0.0059172
41.030	208	212	0.0053279
41.040	213	216	0.0051757
41.050	201	221	0.0054870
41.060	227	226	0.0048902
41.070	210	230	0.0052510
41.080	222	235	0.0049593
41.090	249	240	0.0044444
41.100	265	244	0.0041623
41.110	254	248	0.0043858
41.120	241	251	0.0046277
41.130	256	253	0.0043283
41.140	250	255	0.0044444
41.150	230	255	0.0048225
41.160	261	254	0.0042719
41.170	243	253	0.0045654
41.180	267	250	0.0041623
41.190	259	247	0.0042719
41.200	240	244	0.0046277
41.210	232	240	0.0047562
41.220	266	236	0.0041623
41.230	238	233	0.0046913
41.240	235	230	0.0047562
41.250	249	227	0.0044444
41.260	226	225	0.0049593
41.270	217	224	0.0051020
41.280	227	222	0.0048902
41.290	246	222	0.0045043
41.300	203	222	0.0054870
41.310	233	222	0.0047562
41.320	242	224	0.0046277
41.330	258	225	0.0043283
41.340	226	228	0.0049593
41.350	246	230	0.0045043
41.360	229	234	0.0048902
41.370	240	237	0.0046277
41.380	249	242	0.0045043
41.390	262	246	0.0042719

41.400	287	251	0.0039063
41.410	274	256	0.0041091
41.420	289	260	0.0038579
41.430	256	264	0.0043858
41.440	284	268	0.0039555
41.450	248	270	0.0045043
41.460	299	272	0.0037638
41.470	285	273	0.0039555
41.480	278	272	0.0040570
41.490	275	272	0.0040570
41.500	245	270	0.0045654
41.510	250	269	0.0045043
41.520	275	268	0.0040570
41.530	269	266	0.0041623
41.540	285	264	0.0039063
41.550	278	262	0.0040058
41.560	264	258	0.0042719
41.570	234	253	0.0047562
41.580	264	248	0.0042719
41.590	255	242	0.0043858
41.600	251	236	0.0044444
41.610	229	231	0.0048902
41.620	262	228	0.0042719
41.630	206	225	0.0054066
41.640	190	223	0.0058272
41.650	229	222	0.0048902
41.660	230	222	0.0048902
41.670	236	223	0.0047562
41.680	191	225	0.0058272
41.690	234	228	0.0047562
41.700	245	231	0.0045654
41.710	231	235	0.0048225
41.720	211	240	0.0053279
41.730	214	244	0.0051757
41.740	233	248	0.0047562
41.750	219	251	0.0051020
41.760	237	252	0.0046913
41.770	240	252	0.0046277
41.780	243	250	0.0045654
41.790	237	246	0.0046913
41.800	245	240	0.0045654
41.810	220	234	0.0050299
41.820	220	228	0.0050299
41.830	216	221	0.0051020
41.840	223	215	0.0049593
41.850	234	210	0.0047562
41.860	207	205	0.0053279
41.870	234	200	0.0047562
41.880	197	197	0.0056532
41.890	204	194	0.0054066
41.900	200	191	0.0055692
41.910	210	189	0.0052510
41.920	193	188	0.0057392
41.930	201	186	0.0054870

41.940	198	186	0.0055692
41.950	196	185	0.0056532
41.960	191	185	0.0057392
41.970	192	186	0.0057392
41.980	184	187	0.0060093
41.990	191	188	0.0057392
42.000	184	190	0.0060093
42.010	191	192	0.0057392
42.020	235	195	0.0046913
42.030	196	197	0.0055692
42.040	214	200	0.0051757
42.050	203	203	0.0054066
42.060	169	205	0.0065036
42.070	220	207	0.0050299
42.080	211	208	0.0051757
42.090	209	208	0.0052510
42.100	215	208	0.0051020
42.110	214	208	0.0051020
42.120	215	209	0.0051020
42.130	206	209	0.0053279
42.140	231	210	0.0047562
42.150	222	211	0.0048902
42.160	209	212	0.0052510
42.170	224	213	0.0048902
42.180	227	213	0.0048225
42.190	192	211	0.0056532
42.200	204	210	0.0053279
42.210	215	208	0.0051020
42.220	214	207	0.0051020
42.230	205	207	0.0053279
42.240	219	208	0.0049593
42.250	227	211	0.0048225
42.260	195	215	0.0055692
42.270	237	220	0.0046277
42.280	217	225	0.0050299
42.290	207	229	0.0052510
42.300	171	231	0.0064000
42.310	192	230	0.0056532
42.320	228	226	0.0048225
42.330	196	220	0.0055692
42.340	192	212	0.0056532
42.350	211	204	0.0051757
42.360	187	197	0.0058272
42.370	208	191	0.0052510
42.380	178	186	0.0061035
42.390	186	181	0.0058272
42.400	169	177	0.0064000
42.410	187	174	0.0058272
42.420	171	172	0.0064000
42.430	165	170	0.0066098
42.440	163	168	0.0067186
42.450	178	167	0.0061035
42.460	166	165	0.0065036
42.470	160	164	0.0068301

42.480	160	164	0.0068301
42.490	163	163	0.0067186
42.500	160	162	0.0068301
42.510	173	162	0.0062988
42.520	170	162	0.0064000
42.530	167	162	0.0065036
42.540	183	162	0.0059172
42.550	168	162	0.0065036
42.560	159	162	0.0068301
42.570	164	162	0.0066098
42.580	186	163	0.0058272
42.590	164	163	0.0066098
42.600	168	164	0.0065036
42.610	177	165	0.0061035
42.620	191	166	0.0057392
42.630	152	167	0.0071818
42.640	169	168	0.0064000
42.650	189	169	0.0057392
42.660	189	170	0.0057392
42.670	183	172	0.0059172
42.680	188	173	0.0058272
42.690	188	174	0.0058272
42.700	197	175	0.0054870
42.710	190	175	0.0057392
42.720	184	176	0.0059172
42.730	163	176	0.0067186
42.740	179	176	0.0061035
42.750	180	176	0.0061035
42.760	177	176	0.0062000
42.770	191	176	0.0057392
42.780	182	176	0.0060093
42.790	170	176	0.0064000
42.800	187	177	0.0058272
42.810	171	178	0.0064000
42.820	195	179	0.0055692
42.830	190	181	0.0057392
42.840	196	183	0.0055692
42.850	176	186	0.0062000
42.860	186	189	0.0059172
42.870	185	193	0.0059172
42.880	178	197	0.0061035
42.890	172	202	0.0062988
42.900	197	205	0.0055692
42.910	219	208	0.0050299
42.920	194	210	0.0056532
42.930	169	210	0.0065036
42.940	195	209	0.0056532
42.950	228	207	0.0048225
42.960	207	206	0.0053279
42.970	198	204	0.0054870
42.980	202	202	0.0054066
42.990	189	200	0.0057392
43.000	181	199	0.0060093
43.010	180	197	0.0061035

43.020	201	195	0.0054066
43.030	193	192	0.0056532
43.040	186	190	0.0059172
43.050	184	189	0.0059172
43.060	195	187	0.0056532
43.070	186	185	0.0059172
43.080	178	184	0.0061035
43.090	188	182	0.0058272
43.100	196	181	0.0055692
43.110	180	180	0.0061035
43.120	175	179	0.0062988
43.130	180	178	0.0061035
43.140	168	177	0.0065036
43.150	181	177	0.0060093
43.160	182	177	0.0060093
43.170	170	176	0.0065036
43.180	181	176	0.0060093
43.190	181	176	0.0060093
43.200	152	177	0.0071818
43.210	179	178	0.0061035
43.220	189	178	0.0058272
43.230	189	180	0.0058272
43.240	210	181	0.0052510
43.250	209	183	0.0052510
43.260	194	185	0.0056532
43.270	189	188	0.0058272
43.280	183	190	0.0060093
43.290	188	193	0.0058272
43.300	213	197	0.0051757
43.310	212	201	0.0051757
43.320	204	205	0.0054066
43.330	224	210	0.0048902
43.340	209	216	0.0052510
43.350	230	222	0.0047562
43.360	231	228	0.0047562
43.370	242	234	0.0045654
43.380	245	239	0.0045043
43.390	253	243	0.0043283
43.400	248	244	0.0044444
43.410	241	243	0.0045654
43.420	224	242	0.0048902
43.430	260	242	0.0042166
43.440	259	243	0.0042166
43.450	248	246	0.0044444
43.460	256	251	0.0042719
43.470	244	258	0.0045043
43.480	276	267	0.0039555
43.490	292	276	0.0037638
43.500	300	282	0.0036290
43.510	275	285	0.0040058
43.520	290	283	0.0037638
43.530	277	275	0.0039555
43.540	240	263	0.0045654
43.550	240	250	0.0045654

43.560	214	237	0.0051020
43.570	231	225	0.0047562
43.580	208	215	0.0052510
43.590	191	207	0.0057392
43.600	214	200	0.0051020
43.610	188	194	0.0058272
43.620	196	189	0.0055692
43.630	191	185	0.0057392
43.640	162	182	0.0067186
43.650	189	179	0.0057392
43.660	166	177	0.0065036
43.670	187	175	0.0058272
43.680	185	173	0.0059172
43.690	157	172	0.0069444
43.700	165	171	0.0066098
43.710	193	171	0.0056532
43.720	164	170	0.0066098
43.730	184	170	0.0059172
43.740	164	170	0.0066098
43.750	172	170	0.0062988
43.760	148	170	0.0073051
43.770	184	171	0.0059172
43.780	182	171	0.0059172
43.790	175	171	0.0062000
43.800	161	171	0.0067186
43.810	157	171	0.0068301
43.820	178	172	0.0061035
43.830	174	172	0.0062000
43.840	172	172	0.0062988
43.850	164	172	0.0066098
43.860	178	172	0.0060093
43.870	157	172	0.0068301
43.880	191	172	0.0056532
43.890	182	172	0.0059172
43.900	166	173	0.0065036
43.910	163	174	0.0066098
43.920	168	176	0.0064000
43.930	172	178	0.0062988
43.940	158	180	0.0068301
43.950	157	183	0.0068301
43.960	182	186	0.0059172
43.970	217	189	0.0049593
43.980	181	191	0.0059172
43.990	185	192	0.0058272
44.000	174	191	0.0062000
44.010	155	189	0.0069444
44.020	165	187	0.0065036
44.030	191	184	0.0056532
44.040	176	182	0.0061035
44.050	171	181	0.0062988
44.060	181	180	0.0059172
44.070	176	180	0.0061035
44.080	179	181	0.0060093
44.090	187	181	0.0057392

44.100	176	182	0.0061035
44.110	199	183	0.0054066
44.120	169	184	0.0062988
44.130	182	185	0.0059172
44.140	174	186	0.0062000
44.150	193	187	0.0055692
44.160	165	188	0.0065036
44.170	183	189	0.0058272
44.180	184	190	0.0058272
44.190	203	191	0.0052510
44.200	186	192	0.0057392
44.210	197	194	0.0054066
44.220	188	196	0.0056532
44.230	198	198	0.0054066
44.240	200	201	0.0054066
44.250	169	203	0.0064000
44.260	187	206	0.0057392
44.270	206	208	0.0051757
44.280	173	209	0.0062000
44.290	193	209	0.0055692
44.300	203	207	0.0052510
44.310	197	205	0.0054870
44.320	223	203	0.0048225
44.330	183	201	0.0059172
44.340	212	200	0.0050299
44.350	197	199	0.0054066
44.360	206	199	0.0052510
44.370	217	200	0.0049593
44.380	235	201	0.0045654
44.390	202	204	0.0053279
44.400	212	207	0.0050299
44.410	209	210	0.0051020
44.420	242	214	0.0044444
44.430	227	218	0.0047562
44.440	206	222	0.0052510
44.450	238	226	0.0045043
44.460	228	229	0.0046913
44.470	213	231	0.0050299
44.480	221	232	0.0048902
44.490	206	231	0.0052510
44.500	238	229	0.0045043
44.510	228	225	0.0047562
44.520	218	221	0.0049593
44.530	217	216	0.0049593
44.540	209	211	0.0051757
44.550	207	206	0.0051757
44.560	203	202	0.0053279
44.570	204	198	0.0052510
44.580	206	194	0.0052510
44.590	195	190	0.0055692
44.600	190	187	0.0056532
44.610	192	185	0.0056532
44.620	168	183	0.0064000
44.630	194	181	0.0055692

44.640	189	180	0.0057392
44.650	197	179	0.0054870
44.660	181	178	0.0060093
44.670	176	178	0.0061035
44.680	183	177	0.0059172
44.690	173	177	0.0062000
44.700	183	176	0.0059172
44.710	184	176	0.0059172
44.720	187	175	0.0058272
44.730	189	175	0.0057392
44.740	177	174	0.0061035
44.750	192	174	0.0056532
44.760	184	173	0.0059172
44.770	202	172	0.0053279
44.780	158	171	0.0068301
44.790	165	170	0.0065036
44.800	193	169	0.0056532
44.810	142	167	0.0075614
44.820	177	166	0.0061035
44.830	173	165	0.0062988
44.840	164	163	0.0066098
44.850	165	162	0.0065036
44.860	175	161	0.0062000
44.870	148	160	0.0073051
44.880	156	159	0.0069444
44.890	142	158	0.0075614
44.900	154	157	0.0070616
44.910	194	156	0.0055692
44.920	171	155	0.0062988
44.930	175	155	0.0062000
44.940	153	154	0.0070616
44.950	166	154	0.0065036
44.960	134	154	0.0079719
44.970	144	154	0.0075614
44.980	167	153	0.0065036
44.990	145	153	0.0074316
45.000	182	153	0.0059172

#===END

data_As43

5. CHEMICAL DATA

_chemical_name_common	'calcium arsenic phosphorus hydroxylapatite'
_chemical_formula_structural	'Ca5 (P0.57 As0.43 O4)3 O H'
_chemical_formula_sum	'As1.29 Ca5 H O13 P1.71'
_chemical_formula_weight	559.0

loop_
_atom_type_symbol
_atom_type_description
_atom_type_scatter_dispersion_real

```

_atom_type_scatter_dispersion_imag
_atom_type_scatter_source
_atom_type_scatter_length_neutron    # include if applicable
?   ?   ?   ?   ?   ?

#=====

# 6. POWDER SPECIMEN AND CRYSTAL DATA

_space_group_crystal_system    hexagonal
_space_group_name_H-M_alt      'P63/m'

loop_
  _symmetry_equiv_pos_site_id
  _symmetry_equiv_pos_as_xyz    #<--must include 'x,y,z'
1 '-x, -y, -z'
2 '-x, -y, z+1/2'
3 '-x+y, -x, -z+1/2'
4 '-x+y, -x, z'
5 '-y, x-y, -z+1/2'
6 '-y, x-y, z'
7 'y, -x+y, -z'
8 'y, -x+y, z+1/2'
9 'x-y, x, -z'
10 'x-y, x, z+1/2'
11 'x, y, -z+1/2'
12 'x, y, z'

_cell_length_a 9.5640(3)
_cell_length_b 9.5640(3)
_cell_length_c 6.9360(2)
_cell_angle_alpha 90
_cell_angle_beta 90
_cell_angle_gamma 120
_cell_volume 549.44(3)
_cell_measurement_temperature 293
_cell_special_details
; ?
;

# The next three fields give the specimen dimensions in mm. The equatorial
# plane contains the incident and diffracted beam.

_pd_spec_size_axial      8    # perpendicular to
                           # equatorial plane

_pd_spec_size_equat      1    # parallel to
                           # scattering vector
                           # in transmission

_pd_spec_size_thick      1    # parallel to
                           # scattering vector
                           # in reflection

```

The next five fields are character fields that describe the specimen.

```
_pd_spec_mounting          # This field should be
                           # used to give details of the
                           # container.
;
glass capillary(nominal diameter 1mm)
;
_pd_spec_mount_mode        transmission    # options are 'reflection'
                           # or 'transmission'

_pd_spec_shape             cylinder      # options are 'cylinder'
                           # 'flat_sheet' or 'irregular'

_pd_char_particle_morphology ?
_pd_char_colour            white        # use ICDD colour descriptions
```

The next four fields are normally only needed for transmission experiments.

```
_exptl_absorpt_correction_type none      # include if applicable
```

#=====

7. EXPERIMENTAL DATA

```
_exptl_special_details
; ?
;

_pd_instr_location
;
X16C, National Synchrotron Light Source, Brookhaven National Laboratory
;
_pd_calibration_special_details      # description of the method used
                                     # to calibrate the instrument
;
NIST standard reference material 1976(sintered plate of Al2O3)
7 isolated reflections were used to calibrate wavelength and detector zero.
;

_diffrn_ambient_temperature 293
_diffrn_source               synchrotron
_diffrn_source_target        ?
_diffrn_source_type          ?
_diffrn_radiation_type       synchrotron
_diffrn_measurement_device_type 'Huber diffractometer'
_diffrn_detector              'NaI scintillation counter'
_diffrn_detector_type         ?      # make or model of detector

_pd_meas_scan_method         step    # options are 'step', 'cont',
                                     # 'tof', 'fixed' or
                                     # 'disp' (= dispersive)

_pd_meas_special_details
; ?
```

;

The following six items are used for angular dispersive measurements only.

_diffrn_radiation_wavelength 0.69850
_diffrn_radiation_monochromator 'Si(111) double reflection monochromator'

The following four items give details of the measured (not processed)

powder pattern. Angles are in degrees.

_pd_meas_number_of_points 4301
_pd_meas_2theta_range_min 2.00
_pd_meas_2theta_range_max 45.00
_pd_meas_2theta_range_inc .01

#=====

8. REFINEMENT DATA

Use the next field to give any special details about the fitting of the

powder pattern.

_pd_proc_ls_special_details
;
Rietveld refinement of all structural parameters.
H atom omitted
One common thermal parameter for all atoms
;

The next three items are given as text.

_pd_proc_ls_profile_function
;
Simple_Axial_Model function in TOPAS
Anisotropic strain broadening 3 parameters refined
;
_pd_proc_ls_background_function
;
Chebyshev polynomial of 7th order plus 1/2theta
;
_pd_proc_ls_pref_orient_corr 'none'

_pd_proc_ls_prof_R_factor 0.04573
_pd_proc_ls_prof_wR_factor 0.06030
_pd_proc_ls_prof_wR_expected 0.02800
_refine_ls_R_I_factor ?
_refine_ls_R_Fsqd_factor ?
_refine_ls_R_factor_all ?

_refine_special_details
; ?
;

```

_refine_ls_matrix_type      ?
_refine_ls_weighting_scheme sigma # options are 'sigma' (based on measured su's)
                             # or 'calc' (calculated weights)
_refine_ls_weighting_details '1/(sigma*sigma)'
_refine_ls_hydrogen_treatment none
_refine_ls_extinction_method 'none'
_refine_ls_extinction_coef  ?
_refine_ls_number_parameters 34
_refine_ls_number_restraints ?
_refine_ls_number_constraints ?

```

The following item is the same as CHI, the square root of 'CHI squared'

```
_refine_ls_goodness_of_fit_all 2.153
```

```

_refine_ls_restrained_S_all    ?
_refine_ls_shift/su_max       ?
_refine_ls_shift/su_mean      ?

```

The following four items apply to angular dispersive measurements.

2theta minimum, maximum and increment (in degrees) are for the

intensities used in the refinement.

```

_pd_proc_2theta_range_min    2.0
_pd_proc_2theta_range_max    45.0
_pd_proc_2theta_range_inc    0.01
_pd_proc_wavelength          0.69850

```

Each refinement must be accompanied by a listing of the powder data

in CIF format. Each listing should be sent as a separate file consisting

of one data block containing a single powder profile. The value of

`_pd_block_diffraction_id` is used to associate each refinement with

its corresponding powder profile, since it must match the value

of `_pd_block_id` in the file containing the powder data. A template

for supplying powder data in CIF format is available by ftp at

<ftp://ftp.iucr.org/pub/rietdataform.cif> and an example is given

at <ftp://ftp.iucr.org/pub/rietdataxmpl.cif>.

```
_pd_block_diffraction_id    HAP_As43_profile
```

Give appropriate details in the next two text fields.

```

_pd_proc_info_excluded_regions 'none'
_pd_proc_info_data_reduction   ?

```

The following items are used to identify the programs used.

```

_computing_data_collection    SPEC
_computing_cell_refinement    TOPAS
_computing_data_reduction     ?
_computing_structure_solution ?
_computing_structure_refinement TOPAS
_computing_molecular_graphics ?
_computing_publication_material ?

```

#=====

9. ATOMIC COORDINATES AND DISPLACEMENT PARAMETERS

```
loop_
  _atom_site_label
  _atom_site_type_symbol
  _atom_site_symmetry_multiplicity
  _atom_site_fract_x
  _atom_site_fract_y
  _atom_site_fract_z
  _atom_site_occupancy
  _atom_site_B_iso_or_equiv
O1 O 6 0.31891(69) 0.48632(64) 0.25 1 1.033(27)
O2 O 6 0.59069(67) 0.46372(70) 0.25 1 1.033(27)
O3 O 12 0.34097(45) 0.25623(49) 0.06362(53) 1 1.033(27)
As1 As 6 0.39666(21) 0.36810(20) 0.25 0.4325(37) 1.033(27)
P1 P 6 0.39666(21) 0.36810(20) 0.25 0.5675(37) 1.033(27)
Ca1 Ca 4 0.3333333 0.6666667 0.00332(49) 1 1.033(27)
Ca2 Ca 6 0.24560(25) 0.99521(32) 0.25 1 1.033(27)
O4 O 4 0 0 0.6929(15) 0.5 1.033(27)
```

#=====

```
#####
### CIF submission form for powder diffraction data (IUCr journals) ###
### Version 11 February 2005 ###
#####
```

This is an electronic "form" for submitting powder diffraction data in CIF
format to an IUCr journal. The data for each powder profile should be sent
as a separate file consisting of one data block. The value of _pd_block_id
is used to associate each powder profile with a Rietveld refinement, since
it must match the value of _pd_block_diffraction_id in the CIF used to
report the results of the refinement. The current version of the powder
CIF dictionary, which contains definitions of the terms starting _pd_,
may be obtained from <http://www.iucr.org/iucr-top/cif/pd/index.html>.
Note that the query marks '?' are significant as placeholders, and should
not be deleted where a data item is not given, UNLESS the accompanying data
name is also deleted. Lines should not exceed 80 characters in length. The
comments following a hash symbol '#' may be deleted if wished.

data_HAP_As42_pattern

_pd_block_id HAP_As42_pattern

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loop_
  _pd_proc_2theta_corrected
  _pd_proc_intensity_net
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	_pd_proc_ls_weight		
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2.070	558	549	0.0038579
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2.120	564	531	0.0038104
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5.200	193	198	0.0110803
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5.450	193	189	0.0110803
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5.470	192	189	0.0110803
5.480	185	189	0.0115620
5.490	182	188	0.0118147
5.500	209	188	0.0102030
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5.830	174	185	0.0123457
5.840	184	184	0.0115620
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6.190	173	183	0.0123457
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7.050	194	194	0.0108507
7.060	197	194	0.0108507
7.070	196	194	0.0108507
7.080	201	195	0.0106281
7.090	206	195	0.0104123
7.100	199	195	0.0106281
7.110	206	195	0.0104123
7.120	189	196	0.0113173
7.130	199	196	0.0106281
7.140	197	196	0.0108507
7.150	203	197	0.0104123
7.160	197	197	0.0108507
7.170	196	197	0.0108507
7.180	209	198	0.0102030
7.190	206	198	0.0104123
7.200	197	198	0.0108507
7.210	197	199	0.0108507
7.220	204	199	0.0104123
7.230	205	200	0.0104123
7.240	201	201	0.0106281
7.250	195	201	0.0108507
7.260	222	202	0.0096117
7.270	205	203	0.0104123
7.280	199	204	0.0106281
7.290	204	205	0.0104123
7.300	223	206	0.0096117
7.310	205	207	0.0104123
7.320	200	209	0.0106281
7.330	215	212	0.0100000
7.340	224	215	0.0096117
7.350	220	218	0.0096117
7.360	227	223	0.0094260
7.370	213	228	0.0100000

7.380	226	234	0.0094260
7.390	226	241	0.0094260
7.400	250	248	0.0085734
7.410	266	256	0.0081162
7.420	275	266	0.0078315
7.430	262	276	0.0081162
7.440	273	288	0.0078315
7.450	288	302	0.0074316
7.460	315	318	0.0068301
7.470	332	337	0.0065036
7.480	357	360	0.0060093
7.490	409	385	0.0052510
7.500	416	413	0.0051757
7.510	438	439	0.0048902
7.520	434	450	0.0049593
7.530	409	432	0.0052510
7.540	397	385	0.0054066
7.550	351	336	0.0061035
7.560	303	298	0.0070616
7.570	277	273	0.0076947
7.580	269	256	0.0079719
7.590	244	244	0.0087344
7.600	247	236	0.0087344
7.610	224	231	0.0096117
7.620	236	226	0.0090703
7.630	229	223	0.0094260
7.640	215	221	0.0100000
7.650	218	219	0.0098030
7.660	225	218	0.0096117
7.670	216	216	0.0100000
7.680	230	216	0.0094260
7.690	212	215	0.0102030
7.700	206	214	0.0104123
7.710	205	214	0.0104123
7.720	228	214	0.0094260
7.730	206	213	0.0104123
7.740	206	213	0.0104123
7.750	209	213	0.0102030
7.760	211	213	0.0102030
7.770	217	213	0.0100000
7.780	230	213	0.0094260
7.790	208	213	0.0104123
7.800	225	214	0.0096117
7.810	213	214	0.0102030
7.820	236	214	0.0090703
7.830	223	214	0.0096117
7.840	223	214	0.0096117
7.850	208	215	0.0104123
7.860	215	215	0.0100000
7.870	219	215	0.0098030
7.880	227	216	0.0094260
7.890	232	216	0.0092456
7.900	233	216	0.0092456
7.910	217	217	0.0100000

7.920	217	217	0.0100000
7.930	210	218	0.0102030
7.940	225	218	0.0096117
7.950	196	218	0.0110803
7.960	214	219	0.0100000
7.970	201	220	0.0106281
7.980	222	220	0.0096117
7.990	236	221	0.0090703
8.000	205	221	0.0106281
8.010	212	222	0.0102030
8.020	229	223	0.0094260
8.030	215	224	0.0100000
8.040	212	225	0.0102030
8.050	237	226	0.0090703
8.060	227	227	0.0094260
8.070	228	228	0.0094260
8.080	229	229	0.0094260
8.090	221	230	0.0098030
8.100	236	232	0.0090703
8.110	234	233	0.0092456
8.120	253	235	0.0085734
8.130	253	237	0.0085734
8.140	247	240	0.0087344
8.150	230	243	0.0094260
8.160	241	246	0.0089000
8.170	222	250	0.0096117
8.180	270	254	0.0079719
8.190	272	260	0.0079719
8.200	267	266	0.0081162
8.210	255	274	0.0084168
8.220	285	283	0.0075614
8.230	278	293	0.0076947
8.240	298	304	0.0071818
8.250	299	317	0.0071818
8.260	305	331	0.0070616
8.270	328	347	0.0065036
8.280	359	365	0.0060093
8.290	362	385	0.0059172
8.300	368	406	0.0058272
8.310	434	430	0.0049593
8.320	422	454	0.0051020
8.330	434	479	0.0049593
8.340	471	502	0.0045654
8.350	499	519	0.0043283
8.360	494	526	0.0043283
8.370	498	518	0.0043283
8.380	486	496	0.0044444
8.390	434	463	0.0049593
8.400	413	426	0.0051757
8.410	380	392	0.0056532
8.420	370	363	0.0058272
8.430	319	339	0.0067186
8.440	315	320	0.0068301
8.450	303	305	0.0070616

8.460	279	294	0.0076947
8.470	302	284	0.0070616
8.480	264	277	0.0081162
8.490	259	271	0.0082645
8.500	265	266	0.0081162
8.510	257	262	0.0084168
8.520	243	258	0.0087344
8.530	245	255	0.0087344
8.540	231	253	0.0092456
8.550	244	251	0.0087344
8.560	216	249	0.0100000
8.570	256	248	0.0084168
8.580	269	247	0.0079719
8.590	242	246	0.0089000
8.600	250	245	0.0085734
8.610	261	244	0.0082645
8.620	242	244	0.0089000
8.630	247	243	0.0087344
8.640	246	243	0.0087344
8.650	240	242	0.0089000
8.660	226	242	0.0094260
8.670	239	242	0.0089000
8.680	247	242	0.0087344
8.690	229	242	0.0094260
8.700	246	242	0.0087344
8.710	254	241	0.0084168
8.720	240	241	0.0089000
8.730	256	241	0.0084168
8.740	236	241	0.0090703
8.750	245	242	0.0087344
8.760	257	242	0.0082645
8.770	249	242	0.0085734
8.780	232	242	0.0092456
8.790	251	242	0.0085734
8.800	244	242	0.0087344
8.810	234	243	0.0090703
8.820	240	243	0.0089000
8.830	261	243	0.0082645
8.840	255	243	0.0084168
8.850	238	244	0.0089000
8.860	228	245	0.0094260
8.870	235	245	0.0090703
8.880	248	245	0.0085734
8.890	236	246	0.0090703
8.900	246	246	0.0087344
8.910	239	246	0.0089000
8.920	260	246	0.0082645
8.930	240	247	0.0089000
8.940	249	247	0.0085734
8.950	259	247	0.0082645
8.960	249	248	0.0085734
8.970	272	248	0.0078315
8.980	243	248	0.0087344
8.990	238	249	0.0089000

9.000	272	249	0.0078315
9.010	250	249	0.0085734
9.020	247	250	0.0087344
9.030	273	250	0.0078315
9.040	246	250	0.0087344
9.050	263	251	0.0081162
9.060	261	251	0.0082645
9.070	266	251	0.0081162
9.080	246	252	0.0087344
9.090	294	252	0.0073051
9.100	254	253	0.0084168
9.110	255	253	0.0084168
9.120	241	253	0.0089000
9.130	257	254	0.0082645
9.140	284	254	0.0075614
9.150	248	255	0.0085734
9.160	273	255	0.0078315
9.170	257	255	0.0084168
9.180	254	256	0.0084168
9.190	253	256	0.0084168
9.200	267	257	0.0079719
9.210	265	257	0.0081162
9.220	268	258	0.0079719
9.230	275	258	0.0078315
9.240	284	259	0.0075614
9.250	300	259	0.0071818
9.260	277	260	0.0076947
9.270	281	260	0.0076947
9.280	279	261	0.0076947
9.290	276	261	0.0078315
9.300	278	262	0.0076947
9.310	271	262	0.0079719
9.320	273	263	0.0078315
9.330	274	263	0.0078315
9.340	261	264	0.0082645
9.350	256	264	0.0084168
9.360	280	265	0.0076947
9.370	267	266	0.0081162
9.380	275	267	0.0078315
9.390	285	267	0.0075614
9.400	264	268	0.0081162
9.410	264	269	0.0081162
9.420	283	270	0.0075614
9.430	270	271	0.0079719
9.440	273	272	0.0078315
9.450	287	273	0.0075614
9.460	281	274	0.0076947
9.470	293	275	0.0073051
9.480	289	277	0.0074316
9.490	276	279	0.0078315
9.500	272	281	0.0079719
9.510	275	283	0.0078315
9.520	288	285	0.0074316
9.530	296	288	0.0073051

9.540	281	292	0.0076947
9.550	305	295	0.0070616
9.560	292	300	0.0074316
9.570	282	304	0.0076947
9.580	297	310	0.0073051
9.590	304	316	0.0070616
9.600	310	322	0.0069444
9.610	288	329	0.0074316
9.620	284	335	0.0075614
9.630	319	342	0.0067186
9.640	338	348	0.0064000
9.650	349	353	0.0062000
9.660	341	355	0.0062988
9.670	326	354	0.0066098
9.680	321	349	0.0067186
9.690	336	342	0.0064000
9.700	347	334	0.0062000
9.710	326	327	0.0066098
9.720	340	321	0.0062988
9.730	339	316	0.0064000
9.740	322	312	0.0067186
9.750	310	309	0.0069444
9.760	315	307	0.0068301
9.770	304	306	0.0070616
9.780	312	305	0.0069444
9.790	322	305	0.0067186
9.800	327	305	0.0066098
9.810	319	305	0.0067186
9.820	309	306	0.0069444
9.830	322	307	0.0067186
9.840	331	308	0.0065036
9.850	338	310	0.0064000
9.860	343	312	0.0062988
9.870	313	314	0.0069444
9.880	335	316	0.0065036
9.890	331	319	0.0065036
9.900	321	322	0.0067186
9.910	349	326	0.0062000
9.920	349	330	0.0062000
9.930	360	335	0.0060093
9.940	338	340	0.0064000
9.950	339	346	0.0064000
9.960	351	354	0.0062000
9.970	372	363	0.0058272
9.980	378	373	0.0057392
9.990	400	386	0.0054066
10.000	421	401	0.0138408
10.010	444	420	0.0082645
10.020	452	444	0.0081162
10.030	483	473	0.0075614
10.040	526	509	0.0069444
10.050	563	552	0.0065036
10.060	602	603	0.0061035
10.070	673	663	0.0054066

10.080	759	732	0.0048225
10.090	846	811	0.0043283
10.100	933	900	0.0039063
10.110	1035	1001	0.0035431
10.120	1157	1113	0.0031562
10.130	1223	1234	0.0029861
10.140	1385	1357	0.0026298
10.150	1451	1466	0.0025252
10.160	1492	1534	0.0024507
10.170	1451	1530	0.0025000
10.180	1359	1437	0.0026846
10.190	1271	1278	0.0028597
10.200	1070	1098	0.0034199
10.210	962	934	0.0037638
10.220	836	801	0.0043858
10.230	728	698	0.0050299
10.240	586	620	0.0062000
10.250	547	561	0.0066098
10.260	495	515	0.0073051
10.270	466	480	0.0078315
10.280	434	452	0.0084168
10.290	393	430	0.0092456
10.300	397	412	0.0090703
10.310	387	397	0.0094260
10.320	368	385	0.0098030
10.330	363	375	0.0100000
10.340	357	366	0.0102030
10.350	348	359	0.0104123
10.360	375	352	0.0096117
10.370	345	347	0.0106281
10.380	347	342	0.0104123
10.390	334	338	0.0108507
10.400	342	335	0.0106281
10.410	345	332	0.0104123
10.420	346	329	0.0104123
10.430	319	327	0.0113173
10.440	331	324	0.0108507
10.450	318	322	0.0113173
10.460	332	321	0.0108507
10.470	309	319	0.0118147
10.480	324	318	0.0110803
10.490	339	317	0.0106281
10.500	330	316	0.0110803
10.510	336	315	0.0108507
10.520	320	314	0.0113173
10.530	320	313	0.0113173
10.540	306	312	0.0118147
10.550	329	311	0.0110803
10.560	294	311	0.0123457
10.570	328	310	0.0110803
10.580	331	310	0.0108507
10.590	303	309	0.0118147
10.600	321	309	0.0113173
10.610	326	309	0.0110803

10.620	317	308	0.0113173
10.630	306	308	0.0118147
10.640	322	308	0.0113173
10.650	317	308	0.0113173
10.660	316	308	0.0113173
10.670	317	307	0.0113173
10.680	308	307	0.0118147
10.690	325	308	0.0110803
10.700	306	308	0.0118147
10.710	312	308	0.0115620
10.720	313	308	0.0115620
10.730	304	309	0.0118147
10.740	320	311	0.0113173
10.750	281	311	0.0129132
10.760	302	311	0.0118147
10.770	317	311	0.0113173
10.780	317	311	0.0113173
10.790	305	311	0.0118147
10.800	309	312	0.0115620
10.810	318	312	0.0113173
10.820	298	312	0.0120758
10.830	321	312	0.0113173
10.840	319	313	0.0113173
10.850	306	313	0.0118147
10.860	329	313	0.0108507
10.870	327	313	0.0110803
10.880	315	314	0.0113173
10.890	312	314	0.0115620
10.900	323	314	0.0110803
10.910	313	315	0.0115620
10.920	321	315	0.0113173
10.930	308	315	0.0118147
10.940	316	316	0.0113173
10.950	321	316	0.0113173
10.960	329	317	0.0108507
10.970	321	318	0.0113173
10.980	326	318	0.0110803
10.990	329	319	0.0108507
11.000	315	320	0.0113173
11.010	320	320	0.0113173
11.020	344	321	0.0104123
11.030	333	322	0.0108507
11.040	344	323	0.0104123
11.050	320	325	0.0113173
11.060	333	326	0.0108507
11.070	338	327	0.0106281
11.080	330	329	0.0108507
11.090	331	331	0.0108507
11.100	331	334	0.0108507
11.110	350	336	0.0102030
11.120	346	340	0.0104123
11.130	354	344	0.0102030
11.140	354	348	0.0102030
11.150	357	354	0.0100000

11.160	351	361	0.0102030
11.170	370	368	0.0098030
11.180	382	377	0.0094260
11.190	390	387	0.0092456
11.200	405	399	0.0089000
11.210	406	411	0.0089000
11.220	431	425	0.0084168
11.230	451	439	0.0079719
11.240	464	452	0.0078315
11.250	454	462	0.0079719
11.260	467	467	0.0076947
11.270	502	466	0.0071818
11.280	447	457	0.0081162
11.290	444	444	0.0081162
11.300	440	432	0.0082645
11.310	410	422	0.0087344
11.320	395	415	0.0090703
11.330	383	411	0.0094260
11.340	375	411	0.0096117
11.350	392	413	0.0092456
11.360	392	418	0.0092456
11.370	376	426	0.0096117
11.380	364	438	0.0100000
11.390	398	453	0.0090703
11.400	394	474	0.0092456
11.410	434	503	0.0082645
11.420	439	543	0.0082645
11.430	459	598	0.0078315
11.440	506	672	0.0071818
11.450	609	768	0.0059172
11.460	686	887	0.0052510
11.470	830	1030	0.0043283
11.480	1025	1201	0.0035431
11.490	1272	1404	0.0028293
11.500	1563	1648	0.0023114
11.510	1926	1940	0.0018740
11.520	2441	2286	0.0014793
11.530	3044	2675	0.0011891
11.540	3747	3040	0.0009645
11.550	3952	3195	0.0009127
11.560	3416	2920	0.0010541
11.570	2370	2311	0.0015259
11.580	1529	1715	0.0023565
11.590	1101	1290	0.0032653
11.600	850	1013	0.0042166
11.610	671	832	0.0054066
11.620	589	711	0.0061035
11.630	543	626	0.0066098
11.640	485	565	0.0074316
11.650	456	520	0.0079719
11.660	433	485	0.0082645
11.670	400	459	0.0090703
11.680	409	437	0.0087344
11.690	388	420	0.0092456

11.700	381	406	0.0094260
11.710	367	394	0.0098030
11.720	358	385	0.0100000
11.730	351	376	0.0102030
11.740	371	369	0.0096117
11.750	340	363	0.0106281
11.760	351	358	0.0102030
11.770	360	353	0.0100000
11.780	353	349	0.0102030
11.790	334	346	0.0108507
11.800	365	343	0.0098030
11.810	352	340	0.0102030
11.820	334	337	0.0108507
11.830	348	335	0.0104123
11.840	341	333	0.0106281
11.850	330	331	0.0108507
11.860	335	329	0.0106281
11.870	341	328	0.0106281
11.880	353	326	0.0102030
11.890	345	325	0.0104123
11.900	315	324	0.0113173
11.910	356	322	0.0100000
11.920	334	321	0.0106281
11.930	338	320	0.0106281
11.940	317	320	0.0113173
11.950	325	319	0.0110803
11.960	331	318	0.0108507
11.970	327	317	0.0108507
11.980	340	317	0.0106281
11.990	335	316	0.0106281
12.000	327	315	0.0108507
12.010	320	315	0.0113173
12.020	326	314	0.0110803
12.030	323	314	0.0110803
12.040	341	313	0.0106281
12.050	318	313	0.0113173
12.060	327	313	0.0110803
12.070	326	312	0.0110803
12.080	311	312	0.0115620
12.090	325	312	0.0110803
12.100	317	311	0.0113173
12.110	323	311	0.0110803
12.120	318	311	0.0113173
12.130	319	311	0.0113173
12.140	329	311	0.0108507
12.150	326	311	0.0110803
12.160	320	311	0.0113173
12.170	312	311	0.0115620
12.180	342	311	0.0104123
12.190	316	311	0.0113173
12.200	338	311	0.0106281
12.210	307	312	0.0118147
12.220	321	312	0.0110803
12.230	321	314	0.0113173

12.240	336	316	0.0106281
12.250	318	316	0.0113173
12.260	322	316	0.0110803
12.270	323	317	0.0110803
12.280	339	317	0.0106281
12.290	325	318	0.0110803
12.300	339	319	0.0106281
12.310	327	319	0.0110803
12.320	327	320	0.0110803
12.330	324	322	0.0110803
12.340	325	323	0.0110803
12.350	327	326	0.0110803
12.360	318	328	0.0113173
12.370	314	329	0.0115620
12.380	321	332	0.0113173
12.390	341	334	0.0106281
12.400	341	339	0.0106281
12.410	347	345	0.0104123
12.420	349	353	0.0104123
12.430	358	362	0.0100000
12.440	369	374	0.0098030
12.450	363	387	0.0100000
12.460	392	404	0.0092456
12.470	392	423	0.0092456
12.480	430	444	0.0084168
12.490	476	468	0.0075614
12.500	512	494	0.0070616
12.510	553	517	0.0065036
12.520	594	533	0.0061035
12.530	584	532	0.0062000
12.540	581	513	0.0062000
12.550	509	483	0.0070616
12.560	490	453	0.0074316
12.570	444	429	0.0081162
12.580	445	413	0.0081162
12.590	407	403	0.0089000
12.600	401	398	0.0090703
12.610	378	396	0.0096117
12.620	417	397	0.0087344
12.630	396	401	0.0090703
12.640	408	407	0.0089000
12.650	410	416	0.0089000
12.660	422	428	0.0085734
12.670	435	442	0.0082645
12.680	453	460	0.0079719
12.690	482	481	0.0074316
12.700	489	507	0.0074316
12.710	524	537	0.0068301
12.720	565	570	0.0064000
12.730	616	608	0.0058272
12.740	653	649	0.0054870
12.750	703	692	0.0051020
12.760	773	735	0.0046277
12.770	795	774	0.0045043

12.780	813	806	0.00444444
12.790	819	823	0.0043858
12.800	832	824	0.0043283
12.810	805	804	0.00444444
12.820	797	768	0.0045043
12.830	757	721	0.0047562
12.840	711	669	0.0050299
12.850	649	619	0.0055692
12.860	598	573	0.0060093
12.870	587	533	0.0061035
12.880	516	499	0.0069444
12.890	520	471	0.0069444
12.900	449	447	0.0079719
12.910	418	428	0.0085734
12.920	401	411	0.0089000
12.930	400	397	0.0089000
12.940	380	386	0.0094260
12.950	377	376	0.0096117
12.960	351	367	0.0102030
12.970	367	360	0.0098030
12.980	368	354	0.0098030
12.990	337	348	0.0106281
13.000	340	344	0.0106281
13.010	353	339	0.0102030
13.020	348	336	0.0102030
13.030	364	333	0.0098030
13.040	336	330	0.0106281
13.050	332	327	0.0108507
13.060	335	325	0.0106281
13.070	337	323	0.0106281
13.080	316	321	0.0113173
13.090	345	320	0.0104123
13.100	333	318	0.0106281
13.110	321	317	0.0110803
13.120	332	317	0.0108507
13.130	324	316	0.0110803
13.140	338	317	0.0106281
13.150	323	316	0.0110803
13.160	332	316	0.0108507
13.170	349	315	0.0102030
13.180	350	315	0.0102030
13.190	326	314	0.0110803
13.200	322	314	0.0110803
13.210	345	314	0.0104123
13.220	328	313	0.0108507
13.230	325	313	0.0110803
13.240	311	313	0.0115620
13.250	325	313	0.0110803
13.260	338	313	0.0106281
13.270	320	313	0.0110803
13.280	322	313	0.0110803
13.290	327	314	0.0108507
13.300	328	314	0.0108507
13.310	322	314	0.0110803

13.320	329	315	0.0108507
13.330	332	315	0.0108507
13.340	323	316	0.0110803
13.350	330	316	0.0108507
13.360	325	317	0.0110803
13.370	344	317	0.0104123
13.380	331	318	0.0108507
13.390	329	319	0.0108507
13.400	330	320	0.0108507
13.410	328	321	0.0108507
13.420	338	322	0.0106281
13.430	332	323	0.0108507
13.440	336	324	0.0106281
13.450	333	325	0.0108507
13.460	349	327	0.0102030
13.470	343	328	0.0104123
13.480	342	330	0.0104123
13.490	337	331	0.0106281
13.500	355	333	0.0102030
13.510	354	335	0.0102030
13.520	361	337	0.0100000
13.530	353	339	0.0102030
13.540	336	342	0.0106281
13.550	374	344	0.0096117
13.560	351	347	0.0102030
13.570	355	350	0.0102030
13.580	356	353	0.0100000
13.590	355	356	0.0102030
13.600	365	359	0.0098030
13.610	355	363	0.0102030
13.620	382	367	0.0094260
13.630	378	372	0.0094260
13.640	364	376	0.0098030
13.650	389	381	0.0092456
13.660	396	387	0.0090703
13.670	392	392	0.0092456
13.680	409	399	0.0087344
13.690	390	406	0.0092456
13.700	435	413	0.0082645
13.710	441	421	0.0081162
13.720	421	430	0.0085734
13.730	436	440	0.0082645
13.740	457	450	0.0078315
13.750	440	462	0.0081162
13.760	470	475	0.0076947
13.770	484	489	0.0074316
13.780	500	505	0.0071818
13.790	511	523	0.0070616
13.800	527	543	0.0068301
13.810	554	565	0.0065036
13.820	590	590	0.0061035
13.830	592	618	0.0060093
13.840	607	651	0.0059172
13.850	663	688	0.0054066

13.860	700	730	0.0051020
13.870	740	780	0.0048225
13.880	794	838	0.0045043
13.890	870	905	0.0041091
13.900	943	985	0.0038104
13.910	1050	1081	0.0034199
13.920	1159	1195	0.0030864
13.930	1313	1332	0.0027127
13.940	1454	1496	0.0024507
13.950	1719	1693	0.0020661
13.960	1944	1926	0.0018420
13.970	2264	2198	0.0015747
13.980	2630	2510	0.0013516
13.990	2917	2858	0.0012226
14.000	3370	3234	0.0010610
14.010	3834	3622	0.0009295
14.020	4023	3994	0.0008858
14.030	4330	4309	0.0008210
14.040	4495	4515	0.0007935
14.050	4600	4560	0.0007759
14.060	4418	4420	0.0008071
14.070	4118	4119	0.0008651
14.080	3827	3715	0.0009295
14.090	3430	3283	0.0010339
14.100	3055	2875	0.0011648
14.110	2620	2520	0.0013616
14.120	2329	2227	0.0015259
14.130	1973	1994	0.0017955
14.140	1783	1816	0.0019930
14.150	1615	1685	0.0022041
14.160	1507	1598	0.0023565
14.170	1378	1551	0.0025767
14.180	1412	1546	0.0025252
14.190	1476	1584	0.0024029
14.200	1585	1667	0.0022461
14.210	1716	1797	0.0020661
14.220	1924	1975	0.0018420
14.230	2122	2201	0.0016660
14.240	2521	2474	0.0014027
14.250	2844	2787	0.0012486
14.260	3206	3114	0.0011037
14.270	3425	3394	0.0010339
14.280	3503	3524	0.0010078
14.290	3331	3401	0.0010610
14.300	3115	3038	0.0011337
14.310	2657	2577	0.0013320
14.320	2256	2156	0.0015623
14.330	1912	1830	0.0018579
14.340	1638	1598	0.0021633
14.350	1396	1439	0.0025252
14.360	1279	1336	0.0027701
14.370	1193	1274	0.0029537
14.380	1202	1245	0.0029537
14.390	1141	1244	0.0030864

14.400	1188	1267	0.0029861
14.410	1245	1313	0.0028293
14.420	1315	1381	0.0026846
14.430	1392	1472	0.0025508
14.440	1568	1585	0.0022461
14.450	1684	1718	0.0021042
14.460	1876	1868	0.0018904
14.470	2093	2031	0.0016935
14.480	2286	2197	0.0015500
14.490	2422	2354	0.0014568
14.500	2497	2487	0.0014133
14.510	2697	2575	0.0013127
14.520	2635	2602	0.0013418
14.530	2679	2557	0.0013223
14.540	2565	2442	0.0013717
14.550	2467	2274	0.0014348
14.560	2238	2075	0.0015747
14.570	2018	1869	0.0017507
14.580	1810	1670	0.0019579
14.590	1629	1490	0.0021633
14.600	1387	1332	0.0025508
14.610	1220	1196	0.0028905
14.620	1086	1080	0.0032653
14.630	965	982	0.0036731
14.640	843	899	0.0041623
14.650	763	828	0.0046277
14.660	696	768	0.0051020
14.670	621	717	0.0056532
14.680	569	673	0.0062000
14.690	561	634	0.0062988
14.700	527	601	0.0067186
14.710	489	573	0.0071818
14.720	470	547	0.0075614
14.730	445	525	0.0079719
14.740	450	506	0.0078315
14.750	410	488	0.0085734
14.760	445	473	0.0079719
14.770	399	460	0.0089000
14.780	397	448	0.0089000
14.790	382	437	0.0092456
14.800	396	428	0.0089000
14.810	374	420	0.0094260
14.820	382	412	0.0092456
14.830	371	406	0.0094260
14.840	372	401	0.0094260
14.850	365	397	0.0096117
14.860	381	394	0.0092456
14.870	388	392	0.0090703
14.880	369	391	0.0096117
14.890	382	391	0.0092456
14.900	368	393	0.0096117
14.910	385	396	0.0092456
14.920	407	401	0.0087344
14.930	421	408	0.0084168

14.940	438	418	0.0081162
14.950	457	432	0.0076947
14.960	463	451	0.0075614
14.970	515	476	0.0068301
14.980	588	511	0.0060093
14.990	639	559	0.0054870
15.000	706	624	0.0050299
15.010	796	709	0.0044444
15.020	924	817	0.0038104
15.030	1052	950	0.0033412
15.040	1195	1110	0.0029537
15.050	1367	1298	0.0025767
15.060	1543	1505	0.0022893
15.070	1663	1709	0.0021236
15.080	1690	1851	0.0020850
15.090	1582	1846	0.0022250
15.100	1510	1656	0.0023338
15.110	1342	1366	0.0026298
15.120	1193	1092	0.0029537
15.130	980	880	0.0035856
15.140	846	729	0.0041623
15.150	676	623	0.0052510
15.160	582	547	0.0061035
15.170	505	491	0.0069444
15.180	469	450	0.0075614
15.190	409	418	0.0085734
15.200	403	393	0.0087344
15.210	374	373	0.0094260
15.220	352	357	0.0100000
15.230	362	344	0.0098030
15.240	317	333	0.0110803
15.250	313	324	0.0113173
15.260	312	316	0.0113173
15.270	291	309	0.0120758
15.280	320	304	0.0110803
15.290	304	299	0.0115620
15.300	304	294	0.0115620
15.310	288	290	0.0123457
15.320	291	287	0.0120758
15.330	275	284	0.0129132
15.340	265	281	0.0132118
15.350	284	279	0.0123457
15.360	274	277	0.0129132
15.370	268	275	0.0132118
15.380	282	274	0.0126247
15.390	264	273	0.0132118
15.400	262	272	0.0135208
15.410	270	271	0.0132118
15.420	267	270	0.0132118
15.430	278	270	0.0126247
15.440	280	269	0.0126247
15.450	277	268	0.0126247
15.460	268	269	0.0132118
15.470	268	271	0.0132118

15.480	257	273	0.0138408
15.490	260	275	0.0135208
15.500	277	278	0.0126247
15.510	293	282	0.0120758
15.520	300	287	0.0118147
15.530	302	293	0.0118147
15.540	290	301	0.0120758
15.550	317	310	0.0110803
15.560	335	320	0.0106281
15.570	346	333	0.0102030
15.580	346	346	0.0102030
15.590	366	361	0.0096117
15.600	392	376	0.0090703
15.610	401	390	0.0087344
15.620	409	401	0.0085734
15.630	421	408	0.0084168
15.640	431	408	0.0082645
15.650	430	402	0.0082645
15.660	391	390	0.0090703
15.670	386	374	0.0090703
15.680	381	356	0.0092456
15.690	374	338	0.0094260
15.700	354	322	0.0100000
15.710	308	308	0.0115620
15.720	330	296	0.0106281
15.730	283	286	0.0123457
15.740	295	278	0.0120758
15.750	256	271	0.0138408
15.760	265	265	0.0132118
15.770	259	260	0.0135208
15.780	245	255	0.0145159
15.790	241	251	0.0145159
15.800	232	248	0.0152416
15.810	248	245	0.0141723
15.820	240	243	0.0145159
15.830	245	240	0.0145159
15.840	238	238	0.0148721
15.850	239	236	0.0148721
15.860	239	234	0.0145159
15.870	234	232	0.0148721
15.880	237	230	0.0148721
15.890	226	227	0.0156250
15.900	226	226	0.0156250
15.910	229	225	0.0152416
15.920	233	224	0.0152416
15.930	217	223	0.0160231
15.940	224	222	0.0156250
15.950	216	222	0.0164366
15.960	224	221	0.0156250
15.970	220	220	0.0160231
15.980	228	220	0.0152416
15.990	224	219	0.0156250
16.000	226	219	0.0156250
16.010	212	218	0.0164366

16.020	223	218	0.0156250
16.030	214	217	0.0164366
16.040	215	217	0.0164366
16.050	218	216	0.0160231
16.060	205	216	0.0168663
16.070	230	215	0.0152416
16.080	231	215	0.0152416
16.090	213	215	0.0164366
16.100	214	214	0.0164366
16.110	225	214	0.0156250
16.120	210	213	0.0164366
16.130	205	212	0.0168663
16.140	215	212	0.0160231
16.150	223	212	0.0156250
16.160	207	211	0.0168663
16.170	202	211	0.0173130
16.180	209	211	0.0168663
16.190	219	211	0.0160231
16.200	206	210	0.0168663
16.210	215	210	0.0160231
16.220	201	210	0.0173130
16.230	213	210	0.0164366
16.240	208	210	0.0168663
16.250	217	209	0.0160231
16.260	206	209	0.0168663
16.270	214	209	0.0164366
16.280	201	209	0.0173130
16.290	209	209	0.0164366
16.300	214	209	0.0164366
16.310	203	208	0.0173130
16.320	198	208	0.0173130
16.330	201	208	0.0173130
16.340	200	208	0.0173130
16.350	209	208	0.0168663
16.360	204	208	0.0168663
16.370	219	208	0.0160231
16.380	203	208	0.0173130
16.390	218	207	0.0160231
16.400	202	207	0.0173130
16.410	197	207	0.0177778
16.420	207	207	0.0168663
16.430	187	207	0.0187652
16.440	225	207	0.0156250
16.450	209	207	0.0164366
16.460	192	207	0.0182615
16.470	203	207	0.0173130
16.480	211	207	0.0164366
16.490	210	207	0.0164366
16.500	201	206	0.0173130
16.510	192	206	0.0182615
16.520	203	206	0.0173130
16.530	215	206	0.0160231
16.540	200	206	0.0173130
16.550	201	206	0.0173130

16.560	198	206	0.0173130
16.570	199	206	0.0173130
16.580	209	206	0.0168663
16.590	211	206	0.0164366
16.600	203	206	0.0168663
16.610	206	206	0.0168663
16.620	203	206	0.0173130
16.630	206	206	0.0168663
16.640	186	206	0.0187652
16.650	202	206	0.0173130
16.660	195	206	0.0177778
16.670	205	206	0.0168663
16.680	216	206	0.0160231
16.690	204	206	0.0168663
16.700	200	206	0.0173130
16.710	197	205	0.0177778
16.720	193	204	0.0182615
16.730	201	204	0.0173130
16.740	198	205	0.0173130
16.750	200	205	0.0173130
16.760	204	205	0.0168663
16.770	193	205	0.0177778
16.780	197	205	0.0177778
16.790	177	205	0.0198373
16.800	206	205	0.0168663
16.810	201	206	0.0173130
16.820	202	206	0.0173130
16.830	189	206	0.0182615
16.840	206	206	0.0168663
16.850	195	206	0.0177778
16.860	189	207	0.0182615
16.870	205	207	0.0168663
16.880	212	207	0.0164366
16.890	191	208	0.0182615
16.900	200	208	0.0173130
16.910	201	208	0.0173130
16.920	191	209	0.0182615
16.930	193	209	0.0182615
16.940	204	209	0.0168663
16.950	206	210	0.0168663
16.960	197	211	0.0177778
16.970	214	211	0.0164366
16.980	207	212	0.0168663
16.990	208	212	0.0168663
17.000	196	213	0.0177778
17.010	198	214	0.0177778
17.020	204	215	0.0168663
17.030	190	216	0.0182615
17.040	204	217	0.0168663
17.050	216	218	0.0160231
17.060	202	219	0.0173130
17.070	215	221	0.0160231
17.080	206	222	0.0168663
17.090	203	224	0.0173130

17.100	220	226	0.0160231
17.110	216	228	0.0160231
17.120	214	230	0.0164366
17.130	227	233	0.0152416
17.140	224	236	0.0156250
17.150	235	240	0.0148721
17.160	239	244	0.0145159
17.170	232	250	0.0148721
17.180	258	256	0.0135208
17.190	235	263	0.0148721
17.200	253	273	0.0138408
17.210	275	284	0.0126247
17.220	302	297	0.0115620
17.230	308	313	0.0113173
17.240	328	330	0.0106281
17.250	336	348	0.0104123
17.260	387	365	0.0090703
17.270	374	379	0.0092456
17.280	382	386	0.0090703
17.290	386	385	0.0090703
17.300	379	379	0.0092456
17.310	386	372	0.0090703
17.320	378	367	0.0092456
17.330	389	366	0.0089000
17.340	367	370	0.0094260
17.350	372	378	0.0094260
17.360	400	390	0.0087344
17.370	424	407	0.0082645
17.380	437	427	0.0079719
17.390	445	452	0.0078315
17.400	484	481	0.0071818
17.410	540	513	0.0064000
17.420	553	548	0.0062988
17.430	613	584	0.0056532
17.440	643	619	0.0054066
17.450	674	651	0.0051757
17.460	733	675	0.0047562
17.470	721	690	0.0048225
17.480	761	692	0.0045654
17.490	726	681	0.0048225
17.500	706	658	0.0049593
17.510	711	626	0.0048902
17.520	673	590	0.0051757
17.530	635	553	0.0054870
17.540	590	516	0.0059172
17.550	532	483	0.0065036
17.560	517	454	0.0067186
17.570	459	428	0.0075614
17.580	438	407	0.0079719
17.590	424	389	0.0082645
17.600	413	375	0.0084168
17.610	380	364	0.0090703
17.620	374	355	0.0092456
17.630	368	350	0.0094260

17.640	358	346	0.0096117
17.650	352	346	0.0098030
17.660	343	347	0.0102030
17.670	328	351	0.0106281
17.680	351	358	0.0098030
17.690	352	367	0.0098030
17.700	356	378	0.0098030
17.710	376	391	0.0092456
17.720	404	405	0.0085734
17.730	413	419	0.0084168
17.740	426	432	0.0081162
17.750	429	440	0.0081162
17.760	416	443	0.0082645
17.770	421	440	0.0082645
17.780	413	430	0.0084168
17.790	391	414	0.0089000
17.800	367	395	0.0094260
17.810	351	375	0.0098030
17.820	338	355	0.0102030
17.830	308	337	0.0113173
17.840	308	320	0.0113173
17.850	299	306	0.0115620
17.860	272	294	0.0126247
17.870	254	283	0.0135208
17.880	247	274	0.0138408
17.890	248	267	0.0138408
17.900	250	260	0.0138408
17.910	246	255	0.0138408
17.920	240	250	0.0145159
17.930	239	246	0.0145159
17.940	229	242	0.0148721
17.950	221	239	0.0156250
17.960	226	236	0.0152416
17.970	228	234	0.0152416
17.980	216	232	0.0160231
17.990	224	230	0.0152416
18.000	227	229	0.0152416
18.010	221	228	0.0156250
18.020	219	227	0.0156250
18.030	231	226	0.0148721
18.040	230	226	0.0148721
18.050	224	225	0.0152416
18.060	217	224	0.0156250
18.070	228	224	0.0152416
18.080	227	224	0.0152416
18.090	219	224	0.0156250
18.100	208	224	0.0164366
18.110	246	224	0.0138408
18.120	224	224	0.0152416
18.130	225	225	0.0152416
18.140	223	226	0.0152416
18.150	210	227	0.0164366
18.160	234	228	0.0145159
18.170	232	230	0.0148721

18.180	229	232	0.0148721
18.190	243	234	0.0141723
18.200	231	236	0.0148721
18.210	241	239	0.0141723
18.220	251	243	0.0135208
18.230	259	247	0.0132118
18.240	251	251	0.0135208
18.250	268	256	0.0129132
18.260	267	263	0.0129132
18.270	287	270	0.0120758
18.280	311	278	0.0110803
18.290	315	288	0.0108507
18.300	325	300	0.0106281
18.310	355	313	0.0096117
18.320	385	329	0.0089000
18.330	380	348	0.0090703
18.340	431	369	0.0079719
18.350	457	393	0.0075614
18.360	481	419	0.0071818
18.370	488	447	0.0070616
18.380	549	475	0.0062988
18.390	543	501	0.0062988
18.400	581	522	0.0059172
18.410	566	536	0.0061035
18.420	581	540	0.0059172
18.430	597	534	0.0057392
18.440	536	517	0.0064000
18.450	524	493	0.0066098
18.460	500	465	0.0068301
18.470	485	435	0.0070616
18.480	439	406	0.0078315
18.490	409	380	0.0084168
18.500	372	357	0.0092456
18.510	357	336	0.0096117
18.520	339	319	0.0102030
18.530	318	305	0.0108507
18.540	287	292	0.0120758
18.550	289	282	0.0118147
18.560	271	273	0.0126247
18.570	258	265	0.0132118
18.580	240	258	0.0141723
18.590	250	252	0.0138408
18.600	257	247	0.0135208
18.610	232	242	0.0148721
18.620	241	238	0.0141723
18.630	225	234	0.0152416
18.640	219	230	0.0156250
18.650	213	227	0.0160231
18.660	221	224	0.0156250
18.670	229	221	0.0148721
18.680	223	219	0.0152416
18.690	211	217	0.0164366
18.700	218	215	0.0156250
18.710	193	213	0.0177778

18.720	199	212	0.0173130
18.730	221	210	0.0156250
18.740	208	209	0.0164366
18.750	205	208	0.0168663
18.760	186	207	0.0182615
18.770	202	206	0.0168663
18.780	215	205	0.0160231
18.790	212	204	0.0160231
18.800	195	204	0.0177778
18.810	195	203	0.0173130
18.820	199	202	0.0173130
18.830	205	202	0.0168663
18.840	192	201	0.0177778
18.850	210	201	0.0164366
18.860	192	200	0.0177778
18.870	200	200	0.0168663
18.880	191	199	0.0177778
18.890	198	199	0.0173130
18.900	199	198	0.0173130
18.910	191	198	0.0177778
18.920	182	198	0.0187652
18.930	202	198	0.0168663
18.940	194	197	0.0177778
18.950	211	197	0.0160231
18.960	179	197	0.0192901
18.970	201	197	0.0168663
18.980	194	196	0.0177778
18.990	195	196	0.0173130
19.000	200	196	0.0168663
19.010	204	196	0.0168663
19.020	199	196	0.0173130
19.030	207	196	0.0164366
19.040	198	196	0.0173130
19.050	205	196	0.0164366
19.060	206	196	0.0164366
19.070	197	195	0.0173130
19.080	214	195	0.0160231
19.090	189	195	0.0177778
19.100	204	195	0.0168663
19.110	189	195	0.0177778
19.120	173	195	0.0198373
19.130	204	195	0.0168663
19.140	187	196	0.0182615
19.150	204	196	0.0164366
19.160	192	196	0.0177778
19.170	198	196	0.0173130
19.180	207	196	0.0164366
19.190	198	197	0.0173130
19.200	202	197	0.0168663
19.210	198	198	0.0173130
19.220	196	198	0.0173130
19.230	195	199	0.0173130
19.240	209	200	0.0160231
19.250	214	202	0.0160231

19.260	194	203	0.0173130
19.270	226	205	0.0148721
19.280	215	207	0.0156250
19.290	216	209	0.0156250
19.300	214	210	0.0156250
19.310	224	211	0.0152416
19.320	220	211	0.0152416
19.330	207	210	0.0164366
19.340	216	209	0.0156250
19.350	216	208	0.0156250
19.360	213	208	0.0160231
19.370	222	207	0.0152416
19.380	223	207	0.0152416
19.390	222	207	0.0152416
19.400	202	207	0.0168663
19.410	202	207	0.0168663
19.420	212	206	0.0160231
19.430	211	206	0.0160231
19.440	215	205	0.0156250
19.450	221	204	0.0152416
19.460	216	204	0.0156250
19.470	200	203	0.0168663
19.480	199	202	0.0168663
19.490	201	202	0.0168663
19.500	212	201	0.0160231
19.510	220	201	0.0152416
19.520	208	201	0.0164366
19.530	208	200	0.0164366
19.540	192	200	0.0177778
19.550	195	200	0.0173130
19.560	201	200	0.0168663
19.570	222	200	0.0152416
19.580	199	200	0.0168663
19.590	210	200	0.0160231
19.600	210	200	0.0160231
19.610	196	201	0.0173130
19.620	211	201	0.0160231
19.630	196	201	0.0173130
19.640	197	201	0.0173130
19.650	188	202	0.0182615
19.660	203	202	0.0168663
19.670	206	203	0.0164366
19.680	202	203	0.0168663
19.690	207	204	0.0164366
19.700	202	205	0.0168663
19.710	183	205	0.0187652
19.720	188	206	0.0182615
19.730	199	207	0.0168663
19.740	207	209	0.0164366
19.750	204	210	0.0168663
19.760	192	212	0.0177778
19.770	213	213	0.0160231
19.780	210	216	0.0160231
19.790	222	218	0.0152416

19.800	214	222	0.0160231
19.810	230	226	0.0148721
19.820	237	230	0.0145159
19.830	228	237	0.0148721
19.840	228	244	0.0148721
19.850	247	254	0.0138408
19.860	254	266	0.0135208
19.870	272	280	0.0126247
19.880	303	296	0.0113173
19.890	317	312	0.0108507
19.900	339	327	0.0100000
19.910	342	336	0.0100000
19.920	329	336	0.0104123
19.930	342	327	0.0100000
19.940	326	312	0.0104123
19.950	291	295	0.0118147
19.960	290	280	0.0118147
19.970	272	268	0.0126247
19.980	266	259	0.0129132
19.990	261	252	0.0129132
20.000	236	247	0.0355999
20.010	228	244	0.0222767
20.020	232	242	0.0222767
20.030	231	240	0.0222767
20.040	241	240	0.0210040
20.050	226	240	0.0229568
20.060	234	241	0.0216263
20.070	236	242	0.0216263
20.080	240	243	0.0216263
20.090	241	245	0.0210040
20.100	237	248	0.0216263
20.110	245	251	0.0210040
20.120	250	254	0.0204082
20.130	251	258	0.0204082
20.140	256	263	0.0198373
20.150	255	268	0.0198373
20.160	277	274	0.0182615
20.170	275	281	0.0187652
20.180	277	288	0.0182615
20.190	300	297	0.0168663
20.200	310	307	0.0164366
20.210	319	318	0.0160231
20.220	324	330	0.0156250
20.230	339	343	0.0148721
20.240	361	357	0.0141723
20.250	374	373	0.0135208
20.260	399	390	0.0126247
20.270	413	408	0.0123457
20.280	429	429	0.0118147
20.290	436	454	0.0115620
20.300	507	483	0.0100000
20.310	502	516	0.0100000
20.320	580	558	0.0087344
20.330	627	608	0.0081162

20.340	672	670	0.0075614
20.350	755	745	0.0067186
20.360	855	834	0.0059172
20.370	924	938	0.0054870
20.380	1053	1055	0.0048225
20.390	1157	1179	0.0043858
20.400	1228	1299	0.0041091
20.410	1288	1402	0.0039063
20.420	1412	1469	0.0035856
20.430	1418	1484	0.0035431
20.440	1371	1442	0.0036731
20.450	1330	1350	0.0038104
20.460	1233	1227	0.0041091
20.470	1110	1093	0.0045654
20.480	1076	965	0.0046913
20.490	943	850	0.0053279
20.500	846	752	0.0059172
20.510	748	671	0.0067186
20.520	678	603	0.0074316
20.530	589	547	0.0085734
20.540	539	501	0.0094260
20.550	466	463	0.0108507
20.560	439	432	0.0115620
20.570	399	405	0.0126247
20.580	383	383	0.0132118
20.590	357	364	0.0141723
20.600	334	348	0.0152416
20.610	326	334	0.0152416
20.620	306	322	0.0164366
20.630	299	312	0.0168663
20.640	285	303	0.0177778
20.650	277	296	0.0182615
20.660	265	289	0.0187652
20.670	271	283	0.0187652
20.680	272	278	0.0187652
20.690	268	274	0.0187652
20.700	252	270	0.0198373
20.710	253	267	0.0198373
20.720	235	264	0.0216263
20.730	247	261	0.0204082
20.740	246	260	0.0204082
20.750	251	258	0.0198373
20.760	249	257	0.0204082
20.770	245	256	0.0204082
20.780	246	255	0.0204082
20.790	246	255	0.0204082
20.800	245	255	0.0204082
20.810	234	256	0.0216263
20.820	240	257	0.0210040
20.830	257	259	0.0198373
20.840	249	261	0.0204082
20.850	250	264	0.0204082
20.860	253	267	0.0198373
20.870	253	272	0.0198373

20.880	242	277	0.0210040
20.890	272	284	0.0187652
20.900	287	292	0.0173130
20.910	285	301	0.0177778
20.920	317	313	0.0160231
20.930	318	327	0.0160231
20.940	330	344	0.0152416
20.950	361	362	0.0138408
20.960	382	383	0.0132118
20.970	385	404	0.0132118
20.980	398	423	0.0126247
20.990	416	439	0.0120758
21.000	457	448	0.0110803
21.010	464	450	0.0108507
21.020	465	443	0.0108507
21.030	456	431	0.0110803
21.040	433	415	0.0115620
21.050	439	399	0.0115620
21.060	421	385	0.0120758
21.070	407	374	0.0123457
21.080	399	366	0.0126247
21.090	398	362	0.0126247
21.100	378	359	0.0132118
21.110	386	360	0.0132118
21.120	377	361	0.0135208
21.130	391	364	0.0129132
21.140	377	367	0.0132118
21.150	379	370	0.0132118
21.160	389	371	0.0129132
21.170	367	370	0.0138408
21.180	353	367	0.0141723
21.190	361	362	0.0138408
21.200	348	355	0.0145159
21.210	352	347	0.0141723
21.220	332	338	0.0152416
21.230	351	329	0.0145159
21.240	328	321	0.0152416
21.250	325	313	0.0156250
21.260	311	306	0.0160231
21.270	285	301	0.0177778
21.280	308	296	0.0164366
21.290	276	292	0.0182615
21.300	271	289	0.0187652
21.310	283	287	0.0177778
21.320	277	285	0.0182615
21.330	267	285	0.0187652
21.340	282	285	0.0177778
21.350	275	285	0.0182615
21.360	262	287	0.0192901
21.370	270	289	0.0187652
21.380	263	292	0.0192901
21.390	281	295	0.0177778
21.400	276	300	0.0182615
21.410	289	305	0.0173130

21.420	296	312	0.0168663
21.430	300	319	0.0168663
21.440	314	328	0.0160231
21.450	320	339	0.0156250
21.460	328	352	0.0152416
21.470	359	367	0.0138408
21.480	367	385	0.0135208
21.490	415	407	0.0120758
21.500	441	433	0.0113173
21.510	480	465	0.0104123
21.520	508	506	0.0098030
21.530	572	556	0.0087344
21.540	659	619	0.0075614
21.550	750	701	0.0067186
21.560	845	806	0.0059172
21.570	1000	942	0.0050299
21.580	1164	1114	0.0042719
21.590	1358	1328	0.0036731
21.600	1583	1578	0.0031562
21.610	1799	1851	0.0027701
21.620	1955	2111	0.0025508
21.630	2070	2299	0.0024029
21.640	2116	2346	0.0023565
21.650	1956	2221	0.0025508
21.660	1872	1964	0.0026570
21.670	1667	1662	0.0029861
21.680	1446	1382	0.0034602
21.690	1239	1152	0.0040058
21.700	1102	975	0.0045043
21.710	929	840	0.0053279
21.720	794	739	0.0062988
21.730	698	662	0.0071818
21.740	621	604	0.0079719
21.750	559	560	0.0089000
21.760	526	527	0.0094260
21.770	517	503	0.0096117
21.780	473	485	0.0104123
21.790	457	472	0.0108507
21.800	458	465	0.0108507
21.810	456	462	0.0108507
21.820	446	463	0.0110803
21.830	470	468	0.0106281
21.840	477	477	0.0104123
21.850	464	490	0.0106281
21.860	510	507	0.0098030
21.870	538	527	0.0092456
21.880	550	552	0.0090703
21.890	569	580	0.0087344
21.900	606	611	0.0081162
21.910	618	644	0.0079719
21.920	683	677	0.0073051
21.930	728	708	0.0068301
21.940	727	732	0.0068301
21.950	753	749	0.0066098

21.960	754	755	0.0066098
21.970	754	749	0.0066098
21.980	737	732	0.0067186
21.990	697	706	0.0070616
22.000	691	673	0.0071818
22.010	672	637	0.0074316
22.020	640	600	0.0076947
22.030	593	565	0.0084168
22.040	574	532	0.0085734
22.050	545	503	0.0090703
22.060	476	478	0.0104123
22.070	485	456	0.0102030
22.080	437	438	0.0113173
22.090	452	423	0.0108507
22.100	400	410	0.0123457
22.110	416	401	0.0118147
22.120	391	394	0.0126247
22.130	380	389	0.0129132
22.140	375	386	0.0132118
22.150	375	386	0.0132118
22.160	389	387	0.0126247
22.170	382	391	0.0129132
22.180	385	396	0.0129132
22.190	406	404	0.0120758
22.200	408	413	0.0120758
22.210	420	423	0.0118147
22.220	460	434	0.0108507
22.230	449	445	0.0110803
22.240	471	455	0.0104123
22.250	476	462	0.0104123
22.260	485	467	0.0102030
22.270	502	468	0.0098030
22.280	498	465	0.0100000
22.290	498	457	0.0100000
22.300	489	446	0.0102030
22.310	466	432	0.0106281
22.320	459	418	0.0108507
22.330	425	402	0.0115620
22.340	422	386	0.0118147
22.350	403	371	0.0123457
22.360	391	357	0.0126247
22.370	364	346	0.0135208
22.380	356	335	0.0138408
22.390	347	326	0.0141723
22.400	332	318	0.0148721
22.410	324	311	0.0152416
22.420	316	306	0.0156250
22.430	307	302	0.0160231
22.440	305	299	0.0164366
22.450	290	296	0.0173130
22.460	281	295	0.0177778
22.470	289	295	0.0173130
22.480	287	295	0.0173130
22.490	284	297	0.0173130

22.500	293	300	0.0168663
22.510	308	304	0.0160231
22.520	297	310	0.0168663
22.530	295	317	0.0168663
22.540	314	326	0.0156250
22.550	322	337	0.0152416
22.560	344	351	0.0145159
22.570	367	368	0.0135208
22.580	376	387	0.0132118
22.590	388	409	0.0129132
22.600	408	433	0.0120758
22.610	434	458	0.0113173
22.620	461	483	0.0108507
22.630	458	503	0.0108507
22.640	494	518	0.0100000
22.650	498	526	0.0100000
22.660	511	525	0.0096117
22.670	486	519	0.0102030
22.680	492	509	0.0100000
22.690	484	498	0.0102030
22.700	487	486	0.0102030
22.710	458	473	0.0108507
22.720	417	455	0.0118147
22.730	406	429	0.0120758
22.740	399	398	0.0123457
22.750	379	369	0.0129132
22.760	351	344	0.0141723
22.770	319	324	0.0156250
22.780	314	309	0.0156250
22.790	298	297	0.0164366
22.800	301	288	0.0164366
22.810	293	280	0.0168663
22.820	275	274	0.0177778
22.830	251	269	0.0198373
22.840	252	266	0.0198373
22.850	251	263	0.0198373
22.860	252	261	0.0198373
22.870	240	259	0.0204082
22.880	253	259	0.0192901
22.890	246	259	0.0198373
22.900	252	259	0.0192901
22.910	251	261	0.0198373
22.920	251	262	0.0198373
22.930	256	265	0.0192901
22.940	270	268	0.0182615
22.950	258	271	0.0192901
22.960	270	276	0.0182615
22.970	260	280	0.0187652
22.980	284	285	0.0173130
22.990	279	290	0.0177778
23.000	267	294	0.0182615
23.010	299	297	0.0164366
23.020	284	301	0.0173130
23.030	281	303	0.0173130

23.040	289	305	0.0168663
23.050	301	306	0.0164366
23.060	283	308	0.0173130
23.070	296	309	0.0164366
23.080	295	312	0.0164366
23.090	294	316	0.0168663
23.100	308	322	0.0160231
23.110	322	332	0.0152416
23.120	313	346	0.0156250
23.130	347	366	0.0141723
23.140	369	395	0.0132118
23.150	421	435	0.0115620
23.160	497	494	0.0098030
23.170	576	578	0.0085734
23.180	709	699	0.0069444
23.190	907	865	0.0054066
23.200	1085	1076	0.0045043
23.210	1326	1321	0.0037180
23.220	1458	1554	0.0033802
23.230	1513	1670	0.0032283
23.240	1433	1567	0.0034199
23.250	1257	1290	0.0039063
23.260	988	996	0.0049593
23.270	803	771	0.0061035
23.280	646	617	0.0075614
23.290	553	513	0.0089000
23.300	456	442	0.0106281
23.310	405	392	0.0120758
23.320	366	356	0.0135208
23.330	330	329	0.0148721
23.340	315	308	0.0156250
23.350	297	292	0.0164366
23.360	281	279	0.0173130
23.370	278	269	0.0177778
23.380	245	261	0.0198373
23.390	267	254	0.0182615
23.400	259	248	0.0187652
23.410	256	243	0.0192901
23.420	244	239	0.0198373
23.430	241	236	0.0204082
23.440	217	233	0.0222767
23.450	214	230	0.0229568
23.460	221	228	0.0222767
23.470	227	226	0.0216263
23.480	241	224	0.0204082
23.490	235	223	0.0210040
23.500	231	222	0.0210040
23.510	225	221	0.0216263
23.520	215	220	0.0229568
23.530	216	219	0.0222767
23.540	218	219	0.0222767
23.550	209	218	0.0236686
23.560	225	218	0.0216263
23.570	229	218	0.0216263

23.580	235	218	0.0210040
23.590	223	219	0.0216263
23.600	223	219	0.0216263
23.610	219	220	0.0222767
23.620	225	221	0.0216263
23.630	213	222	0.0229568
23.640	215	224	0.0222767
23.650	227	227	0.0216263
23.660	231	230	0.0210040
23.670	226	234	0.0216263
23.680	246	240	0.0198373
23.690	242	248	0.0198373
23.700	276	257	0.0177778
23.710	279	268	0.0173130
23.720	304	279	0.0160231
23.730	315	288	0.0152416
23.740	321	293	0.0152416
23.750	304	290	0.0160231
23.760	298	282	0.0164366
23.770	283	270	0.0173130
23.780	264	259	0.0182615
23.790	252	251	0.0192901
23.800	242	244	0.0198373
23.810	233	240	0.0210040
23.820	237	236	0.0204082
23.830	239	234	0.0204082
23.840	225	233	0.0216263
23.850	231	233	0.0210040
23.860	226	233	0.0216263
23.870	232	233	0.0210040
23.880	239	234	0.0204082
23.890	240	235	0.0204082
23.900	238	236	0.0204082
23.910	241	238	0.0204082
23.920	245	240	0.0198373
23.930	233	243	0.0210040
23.940	248	245	0.0192901
23.950	251	249	0.0192901
23.960	262	253	0.0187652
23.970	273	257	0.0177778
23.980	270	262	0.0177778
23.990	274	268	0.0177778
24.000	294	274	0.0164366
24.010	300	281	0.0160231
24.020	308	290	0.0156250
24.030	332	300	0.0145159
24.040	342	311	0.0141723
24.050	356	324	0.0135208
24.060	382	339	0.0126247
24.070	396	357	0.0123457
24.080	431	378	0.0113173
24.090	445	402	0.0108507
24.100	487	430	0.0100000
24.110	512	461	0.0094260

24.120	549	497	0.0087344
24.130	566	535	0.0085734
24.140	598	576	0.0081162
24.150	625	615	0.0076947
24.160	652	651	0.0074316
24.170	688	680	0.0070616
24.180	691	698	0.0069444
24.190	689	703	0.0070616
24.200	687	693	0.0070616
24.210	682	673	0.0070616
24.220	672	645	0.0071818
24.230	627	613	0.0076947
24.240	591	579	0.0081162
24.250	572	544	0.0084168
24.260	533	510	0.0090703
24.270	490	477	0.0098030
24.280	469	447	0.0102030
24.290	442	420	0.0108507
24.300	417	397	0.0115620
24.310	391	378	0.0123457
24.320	377	361	0.0129132
24.330	356	347	0.0135208
24.340	342	335	0.0141723
24.350	329	323	0.0145159
24.360	316	313	0.0152416
24.370	299	304	0.0160231
24.380	297	295	0.0160231
24.390	293	288	0.0164366
24.400	274	281	0.0173130
24.410	274	275	0.0177778
24.420	267	269	0.0177778
24.430	252	264	0.0192901
24.440	256	260	0.0187652
24.450	251	257	0.0192901
24.460	246	253	0.0192901
24.470	254	251	0.0187652
24.480	246	248	0.0192901
24.490	247	247	0.0192901
24.500	256	245	0.0187652
24.510	244	244	0.0198373
24.520	244	244	0.0198373
24.530	249	243	0.0192901
24.540	249	244	0.0192901
24.550	255	244	0.0187652
24.560	256	245	0.0187652
24.570	246	247	0.0192901
24.580	267	249	0.0177778
24.590	269	252	0.0177778
24.600	267	256	0.0177778
24.610	300	262	0.0160231
24.620	289	268	0.0164366
24.630	302	276	0.0156250
24.640	331	287	0.0145159
24.650	333	300	0.0141723

24.660	351	317	0.0135208
24.670	375	339	0.0126247
24.680	415	367	0.0115620
24.690	427	402	0.0110803
24.700	472	444	0.0102030
24.710	502	491	0.0094260
24.720	504	537	0.0094260
24.730	517	575	0.0092456
24.740	509	593	0.0094260
24.750	503	584	0.0094260
24.760	467	550	0.0102030
24.770	466	501	0.0102030
24.780	415	451	0.0115620
24.790	397	406	0.0120758
24.800	401	369	0.0118147
24.810	359	340	0.0132118
24.820	329	318	0.0145159
24.830	316	300	0.0152416
24.840	302	287	0.0156250
24.850	289	276	0.0164366
24.860	272	268	0.0173130
24.870	259	262	0.0182615
24.880	258	257	0.0187652
24.890	258	253	0.0182615
24.900	249	250	0.0192901
24.910	242	249	0.0198373
24.920	237	248	0.0204082
24.930	261	247	0.0182615
24.940	235	247	0.0204082
24.950	242	248	0.0198373
24.960	249	249	0.0192901
24.970	260	251	0.0182615
24.980	258	253	0.0182615
24.990	257	255	0.0187652
25.000	263	257	0.0182615
25.010	264	259	0.0182615
25.020	254	260	0.0187652
25.030	284	261	0.0168663
25.040	265	262	0.0182615
25.050	283	263	0.0168663
25.060	281	263	0.0168663
25.070	262	264	0.0182615
25.080	279	265	0.0173130
25.090	278	266	0.0173130
25.100	274	267	0.0173130
25.110	283	269	0.0168663
25.120	290	272	0.0164366
25.130	289	274	0.0164366
25.140	280	276	0.0168663
25.150	276	277	0.0173130
25.160	283	278	0.0168663
25.170	293	277	0.0164366
25.180	289	275	0.0164366
25.190	279	272	0.0173130

25.200	276	269	0.0173130
25.210	276	266	0.0173130
25.220	270	263	0.0177778
25.230	271	260	0.0177778
25.240	255	258	0.0187652
25.250	271	256	0.0177778
25.260	261	254	0.0182615
25.270	259	253	0.0182615
25.280	245	252	0.0192901
25.290	251	251	0.0192901
25.300	233	249	0.0204082
25.310	244	248	0.0198373
25.320	234	246	0.0204082
25.330	249	244	0.0192901
25.340	235	242	0.0204082
25.350	238	240	0.0198373
25.360	232	238	0.0204082
25.370	249	236	0.0192901
25.380	224	234	0.0210040
25.390	233	233	0.0204082
25.400	224	231	0.0210040
25.410	224	230	0.0210040
25.420	226	229	0.0210040
25.430	228	229	0.0210040
25.440	228	228	0.0210040
25.450	223	228	0.0216263
25.460	222	228	0.0216263
25.470	223	228	0.0216263
25.480	231	228	0.0204082
25.490	232	229	0.0204082
25.500	234	230	0.0204082
25.510	226	231	0.0210040
25.520	230	232	0.0204082
25.530	235	233	0.0204082
25.540	230	235	0.0204082
25.550	228	237	0.0210040
25.560	223	239	0.0210040
25.570	234	241	0.0204082
25.580	233	244	0.0204082
25.590	246	247	0.0192901
25.600	248	251	0.0192901
25.610	262	255	0.0182615
25.620	260	259	0.0182615
25.630	252	264	0.0187652
25.640	273	270	0.0173130
25.650	296	277	0.0160231
25.660	281	284	0.0168663
25.670	294	291	0.0160231
25.680	312	300	0.0152416
25.690	330	309	0.0141723
25.700	335	319	0.0141723
25.710	328	330	0.0145159
25.720	338	341	0.0138408
25.730	357	351	0.0132118

25.740	371	361	0.0126247
25.750	373	369	0.0126247
25.760	366	376	0.0129132
25.770	369	380	0.0129132
25.780	388	382	0.0120758
25.790	378	382	0.0126247
25.800	388	379	0.0120758
25.810	376	375	0.0126247
25.820	376	369	0.0126247
25.830	367	363	0.0129132
25.840	383	357	0.0123457
25.850	369	352	0.0129132
25.860	359	348	0.0132118
25.870	346	344	0.0135208
25.880	354	342	0.0132118
25.890	342	341	0.0138408
25.900	346	341	0.0135208
25.910	343	342	0.0138408
25.920	351	344	0.0135208
25.930	349	346	0.0135208
25.940	354	348	0.0132118
25.950	357	350	0.0132118
25.960	358	351	0.0132118
25.970	335	350	0.0141723
25.980	324	348	0.0145159
25.990	339	344	0.0138408
26.000	318	339	0.0148721
26.010	318	332	0.0148721
26.020	318	325	0.0148721
26.030	305	318	0.0152416
26.040	313	311	0.0148721
26.050	302	304	0.0156250
26.060	299	298	0.0156250
26.070	292	293	0.0160231
26.080	298	289	0.0156250
26.090	285	286	0.0164366
26.100	297	283	0.0156250
26.110	281	282	0.0164366
26.120	283	282	0.0164366
26.130	279	282	0.0168663
26.140	278	283	0.0168663
26.150	292	284	0.0160231
26.160	270	284	0.0173130
26.170	288	283	0.0164366
26.180	286	281	0.0164366
26.190	265	279	0.0177778
26.200	274	277	0.0168663
26.210	282	275	0.0164366
26.220	279	274	0.0168663
26.230	281	274	0.0164366
26.240	277	274	0.0168663
26.250	283	275	0.0164366
26.260	279	278	0.0168663
26.270	278	281	0.0168663

26.280	288	285	0.0164366
26.290	309	290	0.0152416
26.300	314	295	0.0148721
26.310	337	302	0.0138408
26.320	338	310	0.0138408
26.330	354	319	0.0132118
26.340	366	328	0.0129132
26.350	390	339	0.0120758
26.360	379	351	0.0123457
26.370	382	364	0.0123457
26.380	417	377	0.0113173
26.390	448	389	0.0104123
26.400	454	401	0.0102030
26.410	437	411	0.0106281
26.420	442	419	0.0106281
26.430	435	425	0.0108507
26.440	442	426	0.0106281
26.450	447	425	0.0104123
26.460	447	421	0.0104123
26.470	430	415	0.0108507
26.480	400	407	0.0118147
26.490	389	399	0.0120758
26.500	394	391	0.0118147
26.510	390	385	0.0120758
26.520	392	381	0.0120758
26.530	383	379	0.0123457
26.540	380	381	0.0123457
26.550	384	386	0.0120758
26.560	395	395	0.0118147
26.570	378	408	0.0123457
26.580	417	424	0.0113173
26.590	427	440	0.0110803
26.600	436	454	0.0108507
26.610	449	460	0.0104123
26.620	428	456	0.0108507
26.630	412	441	0.0113173
26.640	400	419	0.0118147
26.650	374	394	0.0126247
26.660	368	371	0.0126247
26.670	353	351	0.0132118
26.680	327	335	0.0141723
26.690	317	322	0.0148721
26.700	305	312	0.0152416
26.710	301	304	0.0156250
26.720	278	298	0.0168663
26.730	288	294	0.0164366
26.740	275	291	0.0168663
26.750	277	290	0.0168663
26.760	281	289	0.0164366
26.770	287	290	0.0164366
26.780	278	291	0.0168663
26.790	297	293	0.0156250
26.800	298	296	0.0156250
26.810	307	300	0.0152416

26.820	305	305	0.0152416
26.830	305	311	0.0152416
26.840	331	318	0.0141723
26.850	329	326	0.0141723
26.860	338	335	0.0138408
26.870	360	347	0.0129132
26.880	381	360	0.0123457
26.890	395	375	0.0118147
26.900	433	392	0.0108507
26.910	434	412	0.0106281
26.920	444	435	0.0104123
26.930	503	460	0.0092456
26.940	510	488	0.0090703
26.950	551	519	0.0084168
26.960	562	551	0.0082645
26.970	582	583	0.0079719
26.980	602	614	0.0076947
26.990	616	641	0.0075614
27.000	617	661	0.0075614
27.010	637	673	0.0073051
27.020	656	674	0.0070616
27.030	641	666	0.0071818
27.040	600	648	0.0076947
27.050	596	625	0.0078315
27.060	586	597	0.0079719
27.070	586	568	0.0078315
27.080	549	539	0.0084168
27.090	522	513	0.0089000
27.100	500	488	0.0092456
27.110	490	466	0.0094260
27.120	457	447	0.0102030
27.130	431	430	0.0106281
27.140	403	414	0.0115620
27.150	405	401	0.0113173
27.160	388	388	0.0118147
27.170	371	376	0.0123457
27.180	375	366	0.0123457
27.190	345	356	0.0132118
27.200	334	347	0.0138408
27.210	339	340	0.0135208
27.220	321	333	0.0141723
27.230	307	327	0.0148721
27.240	299	322	0.0152416
27.250	295	318	0.0156250
27.260	307	315	0.0148721
27.270	301	313	0.0152416
27.280	303	312	0.0152416
27.290	307	312	0.0148721
27.300	313	312	0.0148721
27.310	319	314	0.0145159
27.320	290	317	0.0160231
27.330	313	322	0.0148721
27.340	318	327	0.0145159
27.350	313	335	0.0145159

27.360	338	344	0.0135208
27.370	359	355	0.0129132
27.380	375	370	0.0123457
27.390	398	387	0.0115620
27.400	422	409	0.0108507
27.410	467	435	0.0098030
27.420	508	468	0.0090703
27.430	562	509	0.0081162
27.440	588	560	0.0078315
27.450	653	622	0.0070616
27.460	720	696	0.0064000
27.470	810	780	0.0056532
27.480	877	870	0.0052510
27.490	933	956	0.0048902
27.500	977	1022	0.0046913
27.510	957	1053	0.0048225
27.520	978	1039	0.0046913
27.530	921	985	0.0049593
27.540	882	905	0.0051757
27.550	840	818	0.0054870
27.560	789	734	0.0058272
27.570	716	661	0.0064000
27.580	667	600	0.0068301
27.590	618	551	0.0074316
27.600	559	512	0.0082645
27.610	517	482	0.0089000
27.620	498	459	0.0092456
27.630	489	442	0.0094260
27.640	477	430	0.0096117
27.650	478	422	0.0096117
27.660	459	418	0.0100000
27.670	458	418	0.0100000
27.680	420	420	0.0108507
27.690	452	424	0.0102030
27.700	458	430	0.0100000
27.710	454	438	0.0102030
27.720	484	447	0.0094260
27.730	464	457	0.0098030
27.740	496	466	0.0092456
27.750	491	473	0.0094260
27.760	511	479	0.0089000
27.770	501	481	0.0092456
27.780	489	480	0.0094260
27.790	503	475	0.0090703
27.800	456	467	0.0100000
27.810	491	456	0.0094260
27.820	471	444	0.0098030
27.830	451	430	0.0102030
27.840	437	415	0.0104123
27.850	441	401	0.0104123
27.860	406	387	0.0113173
27.870	397	374	0.0115620
27.880	377	362	0.0120758
27.890	371	351	0.0123457

27.900	351	340	0.0129132
27.910	342	330	0.0135208
27.920	333	320	0.0138408
27.930	302	311	0.0152416
27.940	300	302	0.0152416
27.950	297	294	0.0156250
27.960	290	287	0.0156250
27.970	277	280	0.0164366
27.980	265	274	0.0173130
27.990	271	268	0.0168663
28.000	261	264	0.0177778
28.010	250	259	0.0182615
28.020	255	255	0.0177778
28.030	241	252	0.0187652
28.040	246	249	0.0187652
28.050	233	246	0.0198373
28.060	235	244	0.0192901
28.070	236	242	0.0192901
28.080	230	241	0.0198373
28.090	238	239	0.0192901
28.100	227	238	0.0204082
28.110	222	237	0.0204082
28.120	238	237	0.0192901
28.130	235	237	0.0192901
28.140	251	237	0.0182615
28.150	238	237	0.0192901
28.160	232	238	0.0198373
28.170	246	239	0.0187652
28.180	241	240	0.0187652
28.190	249	242	0.0182615
28.200	256	244	0.0177778
28.210	265	247	0.0173130
28.220	267	250	0.0173130
28.230	268	254	0.0168663
28.240	278	259	0.0164366
28.250	273	265	0.0168663
28.260	292	271	0.0156250
28.270	296	278	0.0152416
28.280	307	285	0.0148721
28.290	319	294	0.0141723
28.300	324	303	0.0141723
28.310	336	312	0.0135208
28.320	344	321	0.0132118
28.330	357	330	0.0129132
28.340	351	338	0.0129132
28.350	350	345	0.0129132
28.360	362	351	0.0126247
28.370	343	355	0.0132118
28.380	358	354	0.0126247
28.390	329	350	0.0138408
28.400	337	342	0.0135208
28.410	315	331	0.0145159
28.420	336	318	0.0135208
28.430	313	304	0.0145159

28.440	287	291	0.0160231
28.450	283	279	0.0160231
28.460	271	268	0.0168663
28.470	263	259	0.0173130
28.480	243	251	0.0187652
28.490	242	244	0.0187652
28.500	238	238	0.0192901
28.510	241	233	0.0187652
28.520	227	229	0.0198373
28.530	229	225	0.0198373
28.540	213	222	0.0216263
28.550	214	219	0.0210040
28.560	208	217	0.0216263
28.570	204	214	0.0222767
28.580	193	212	0.0236686
28.590	209	211	0.0216263
28.600	197	209	0.0229568
28.610	201	208	0.0222767
28.620	209	207	0.0216263
28.630	190	206	0.0236686
28.640	191	205	0.0236686
28.650	196	204	0.0229568
28.660	197	203	0.0229568
28.670	201	203	0.0222767
28.680	188	202	0.0244141
28.690	191	202	0.0236686
28.700	183	201	0.0244141
28.710	183	201	0.0244141
28.720	182	201	0.0251953
28.730	194	201	0.0229568
28.740	195	201	0.0229568
28.750	194	202	0.0229568
28.760	199	203	0.0229568
28.770	195	203	0.0229568
28.780	185	204	0.0244141
28.790	187	205	0.0244141
28.800	195	205	0.0229568
28.810	193	205	0.0236686
28.820	196	204	0.0229568
28.830	191	203	0.0236686
28.840	186	202	0.0244141
28.850	185	200	0.0244141
28.860	191	199	0.0236686
28.870	196	198	0.0229568
28.880	197	197	0.0229568
28.890	190	197	0.0236686
28.900	204	196	0.0222767
28.910	179	196	0.0251953
28.920	185	196	0.0244141
28.930	179	195	0.0251953
28.940	182	195	0.0251953
28.950	195	195	0.0229568
28.960	190	195	0.0236686
28.970	189	195	0.0236686

28.980	197	195	0.0229568
28.990	172	195	0.0260146
29.000	201	196	0.0222767
29.010	196	196	0.0229568
29.020	184	196	0.0244141
29.030	191	196	0.0236686
29.040	191	197	0.0236686
29.050	181	197	0.0251953
29.060	182	198	0.0244141
29.070	197	198	0.0229568
29.080	196	199	0.0229568
29.090	187	200	0.0236686
29.100	201	201	0.0222767
29.110	198	203	0.0229568
29.120	200	204	0.0222767
29.130	215	206	0.0210040
29.140	202	209	0.0222767
29.150	213	212	0.0210040
29.160	214	216	0.0210040
29.170	210	220	0.0216263
29.180	222	226	0.0204082
29.190	221	233	0.0204082
29.200	233	240	0.0192901
29.210	220	246	0.0204082
29.220	232	250	0.0192901
29.230	235	251	0.0192901
29.240	217	248	0.0204082
29.250	215	243	0.0210040
29.260	231	238	0.0192901
29.270	224	232	0.0198373
29.280	208	228	0.0216263
29.290	211	224	0.0210040
29.300	229	222	0.0198373
29.310	211	220	0.0210040
29.320	207	218	0.0216263
29.330	211	217	0.0216263
29.340	217	217	0.0204082
29.350	198	216	0.0229568
29.360	207	216	0.0216263
29.370	213	217	0.0210040
29.380	212	217	0.0210040
29.390	209	218	0.0216263
29.400	219	219	0.0204082
29.410	205	220	0.0222767
29.420	213	222	0.0210040
29.430	225	224	0.0198373
29.440	219	227	0.0204082
29.450	229	230	0.0198373
29.460	236	233	0.0192901
29.470	229	237	0.0198373
29.480	234	242	0.0192901
29.490	249	247	0.0182615
29.500	271	253	0.0164366
29.510	265	259	0.0168663

29.520	280	266	0.0160231
29.530	287	274	0.0156250
29.540	280	282	0.0160231
29.550	287	289	0.0156250
29.560	297	297	0.0152416
29.570	312	303	0.0145159
29.580	293	307	0.0152416
29.590	331	308	0.0135208
29.600	298	308	0.0148721
29.610	315	306	0.0141723
29.620	288	302	0.0156250
29.630	312	297	0.0145159
29.640	291	292	0.0152416
29.650	286	286	0.0156250
29.660	291	280	0.0152416
29.670	273	274	0.0164366
29.680	282	269	0.0160231
29.690	282	264	0.0160231
29.700	264	260	0.0168663
29.710	262	255	0.0168663
29.720	258	251	0.0173130
29.730	259	248	0.0173130
29.740	246	244	0.0182615
29.750	241	241	0.0187652
29.760	251	237	0.0177778
29.770	227	235	0.0198373
29.780	235	232	0.0187652
29.790	233	229	0.0192901
29.800	220	227	0.0204082
29.810	218	225	0.0204082
29.820	225	223	0.0198373
29.830	209	221	0.0216263
29.840	230	220	0.0192901
29.850	214	219	0.0210040
29.860	212	218	0.0210040
29.870	198	217	0.0222767
29.880	213	217	0.0210040
29.890	209	216	0.0210040
29.900	205	216	0.0216263
29.910	207	216	0.0216263
29.920	201	216	0.0222767
29.930	209	216	0.0210040
29.940	219	217	0.0204082
29.950	211	217	0.0210040
29.960	220	218	0.0204082
29.970	205	219	0.0216263
29.980	207	221	0.0216263
29.990	210	222	0.0210040
30.000	211	224	0.0493827
30.010	214	226	0.0277778
30.020	207	228	0.0287274
30.030	217	230	0.0277778
30.040	206	232	0.0287274
30.050	222	234	0.0268745

30.060	213	237	0.0277778
30.070	219	239	0.0268745
30.080	230	241	0.0260146
30.090	234	243	0.0251953
30.100	227	246	0.0260146
30.110	250	249	0.0236686
30.120	251	252	0.0236686
30.130	249	257	0.0236686
30.140	256	261	0.0229568
30.150	279	267	0.0210040
30.160	271	273	0.0216263
30.170	288	279	0.0204082
30.180	300	287	0.0198373
30.190	303	295	0.0198373
30.200	314	304	0.0187652
30.210	330	314	0.0177778
30.220	339	325	0.0173130
30.230	352	336	0.0168663
30.240	365	347	0.0164366
30.250	383	358	0.0156250
30.260	368	368	0.0160231
30.270	384	377	0.0152416
30.280	390	386	0.0152416
30.290	375	392	0.0156250
30.300	392	397	0.0152416
30.310	411	401	0.0145159
30.320	399	404	0.0148721
30.330	404	407	0.0145159
30.340	413	409	0.0145159
30.350	425	413	0.0138408
30.360	442	416	0.0135208
30.370	422	419	0.0141723
30.380	430	419	0.0138408
30.390	422	414	0.0141723
30.400	417	404	0.0141723
30.410	380	391	0.0156250
30.420	381	377	0.0156250
30.430	369	364	0.0160231
30.440	344	354	0.0173130
30.450	339	345	0.0173130
30.460	337	339	0.0177778
30.470	323	334	0.0182615
30.480	303	330	0.0192901
30.490	313	326	0.0187652
30.500	302	323	0.0198373
30.510	306	321	0.0192901
30.520	300	318	0.0198373
30.530	294	314	0.0198373
30.540	285	310	0.0210040
30.550	298	305	0.0198373
30.560	274	299	0.0216263
30.570	278	294	0.0210040
30.580	270	288	0.0216263
30.590	271	282	0.0216263

30.600	245	276	0.0244141
30.610	264	270	0.0222767
30.620	261	265	0.0222767
30.630	250	260	0.0236686
30.640	239	256	0.0244141
30.650	234	252	0.0251953
30.660	230	248	0.0251953
30.670	234	245	0.0251953
30.680	226	243	0.0260146
30.690	223	241	0.0260146
30.700	228	239	0.0260146
30.710	212	239	0.0277778
30.720	226	238	0.0260146
30.730	230	239	0.0251953
30.740	240	240	0.0244141
30.750	226	242	0.0260146
30.760	224	244	0.0260146
30.770	224	246	0.0260146
30.780	238	248	0.0244141
30.790	238	248	0.0244141
30.800	235	247	0.0251953
30.810	238	245	0.0244141
30.820	227	243	0.0260146
30.830	223	241	0.0260146
30.840	217	239	0.0268745
30.850	228	238	0.0260146
30.860	222	237	0.0260146
30.870	229	236	0.0251953
30.880	234	235	0.0251953
30.890	228	234	0.0260146
30.900	231	234	0.0251953
30.910	218	234	0.0268745
30.920	228	234	0.0251953
30.930	229	235	0.0251953
30.940	240	236	0.0244141
30.950	244	237	0.0236686
30.960	240	239	0.0244141
30.970	229	241	0.0251953
30.980	235	244	0.0251953
30.990	254	247	0.0229568
31.000	248	251	0.0236686
31.010	267	255	0.0216263
31.020	254	260	0.0229568
31.030	259	265	0.0229568
31.040	268	270	0.0216263
31.050	287	275	0.0204082
31.060	292	280	0.0198373
31.070	290	285	0.0204082
31.080	294	291	0.0198373
31.090	300	295	0.0192901
31.100	312	300	0.0187652
31.110	314	305	0.0187652
31.120	317	310	0.0182615
31.130	332	315	0.0177778

31.140	346	321	0.0168663
31.150	339	328	0.0173130
31.160	355	336	0.0164366
31.170	356	346	0.0164366
31.180	373	358	0.0156250
31.190	379	372	0.0156250
31.200	412	387	0.0141723
31.210	398	403	0.0148721
31.220	391	418	0.0148721
31.230	401	432	0.0145159
31.240	414	442	0.0141723
31.250	418	446	0.0138408
31.260	404	445	0.0145159
31.270	397	437	0.0148721
31.280	399	423	0.0145159
31.290	370	406	0.0156250
31.300	367	387	0.0160231
31.310	363	368	0.0160231
31.320	343	349	0.0168663
31.330	354	332	0.0164366
31.340	335	316	0.0173130
31.350	308	303	0.0187652
31.360	284	291	0.0204082
31.370	278	281	0.0210040
31.380	271	272	0.0216263
31.390	264	265	0.0222767
31.400	258	258	0.0229568
31.410	249	253	0.0236686
31.420	263	249	0.0222767
31.430	242	245	0.0244141
31.440	248	242	0.0236686
31.450	248	240	0.0236686
31.460	240	238	0.0244141
31.470	243	237	0.0236686
31.480	231	237	0.0251953
31.490	234	237	0.0251953
31.500	239	238	0.0244141
31.510	239	239	0.0244141
31.520	236	241	0.0244141
31.530	248	244	0.0236686
31.540	261	247	0.0222767
31.550	268	252	0.0216263
31.560	257	258	0.0222767
31.570	258	265	0.0222767
31.580	272	275	0.0210040
31.590	279	287	0.0210040
31.600	273	301	0.0210040
31.610	294	318	0.0198373
31.620	297	335	0.0192901
31.630	286	348	0.0204082
31.640	293	351	0.0198373
31.650	296	344	0.0192901
31.660	269	327	0.0216263
31.670	296	308	0.0192901

31.680	289	291	0.0198373
31.690	288	277	0.0198373
31.700	265	266	0.0216263
31.710	256	258	0.0222767
31.720	260	253	0.0222767
31.730	259	249	0.0222767
31.740	243	247	0.0236686
31.750	244	246	0.0236686
31.760	234	246	0.0244141
31.770	251	247	0.0229568
31.780	248	248	0.0229568
31.790	256	251	0.0222767
31.800	253	255	0.0229568
31.810	258	259	0.0222767
31.820	280	265	0.0204082
31.830	286	272	0.0198373
31.840	306	281	0.0187652
31.850	314	291	0.0182615
31.860	321	304	0.0177778
31.870	341	320	0.0168663
31.880	366	338	0.0156250
31.890	400	361	0.0141723
31.900	415	388	0.0138408
31.910	480	419	0.0118147
31.920	509	454	0.0113173
31.930	548	491	0.0104123
31.940	577	525	0.0098030
31.950	597	552	0.0096117
31.960	623	566	0.0090703
31.970	583	564	0.0098030
31.980	587	546	0.0096117
31.990	560	519	0.0102030
32.000	525	488	0.0108507
32.010	491	458	0.0115620
32.020	471	431	0.0120758
32.030	435	408	0.0132118
32.040	413	389	0.0138408
32.050	377	373	0.0152416
32.060	366	359	0.0156250
32.070	365	348	0.0156250
32.080	345	339	0.0164366
32.090	354	330	0.0160231
32.100	333	323	0.0173130
32.110	330	316	0.0173130
32.120	319	310	0.0177778
32.130	310	303	0.0182615
32.140	300	298	0.0192901
32.150	319	293	0.0177778
32.160	298	288	0.0192901
32.170	288	284	0.0198373
32.180	299	280	0.0192901
32.190	283	277	0.0204082
32.200	279	275	0.0204082
32.210	274	274	0.0210040

32.220	278	273	0.0204082
32.230	291	273	0.0198373
32.240	282	275	0.0204082
32.250	296	277	0.0192901
32.260	309	280	0.0187652
32.270	304	285	0.0187652
32.280	310	291	0.0187652
32.290	323	299	0.0177778
32.300	330	309	0.0173130
32.310	346	322	0.0164366
32.320	358	337	0.0160231
32.330	372	355	0.0156250
32.340	375	378	0.0152416
32.350	416	405	0.0138408
32.360	418	437	0.0138408
32.370	444	472	0.0129132
32.380	445	508	0.0129132
32.390	459	541	0.0126247
32.400	467	564	0.0123457
32.410	467	570	0.0123457
32.420	480	559	0.0120758
32.430	467	533	0.0123457
32.440	465	499	0.0123457
32.450	436	464	0.0132118
32.460	442	431	0.0129132
32.470	418	402	0.0138408
32.480	396	376	0.0081162
32.490	413	355	0.0076947
32.500	361	337	0.0089000
32.510	358	323	0.0089000
32.520	351	311	0.0090703
32.530	336	301	0.0094260
32.540	339	293	0.0094260
32.550	304	288	0.0104123
32.560	298	283	0.0106281
32.570	306	280	0.0104123
32.580	291	279	0.0110803
32.590	275	278	0.0115620
32.600	298	279	0.0106281
32.610	308	280	0.0104123
32.620	283	283	0.0113173
32.630	291	287	0.0108507
32.640	283	292	0.0113173
32.650	304	297	0.0104123
32.660	305	304	0.0104123
32.670	298	311	0.0106281
32.680	313	319	0.0102030
32.690	323	327	0.0098030
32.700	328	334	0.0096117
32.710	308	341	0.0102030
32.720	313	346	0.0102030
32.730	342	348	0.0092456
32.740	314	348	0.0100000
32.750	315	346	0.0100000

32.760	336	341	0.0094260
32.770	326	334	0.0096117
32.780	304	325	0.0104123
32.790	316	316	0.0100000
32.800	293	306	0.0108507
32.810	292	296	0.0108507
32.820	285	286	0.0110803
32.830	268	277	0.0118147
32.840	267	268	0.0118147
32.850	247	260	0.0126247
32.860	268	252	0.0118147
32.870	252	245	0.0123457
32.880	232	239	0.0135208
32.890	244	233	0.0129132
32.900	238	228	0.0132118
32.910	219	224	0.0141723
32.920	217	220	0.0145159
32.930	210	216	0.0148721
32.940	216	212	0.0145159
32.950	220	209	0.0141723
32.960	195	207	0.0160231
32.970	196	204	0.0160231
32.980	193	202	0.0160231
32.990	198	200	0.0156250
33.000	191	198	0.0164366
33.010	192	196	0.0164366
33.020	194	194	0.0160231
33.030	189	193	0.0164366
33.040	178	191	0.0173130
33.050	188	190	0.0164366
33.060	176	189	0.0177778
33.070	195	188	0.0160231
33.080	175	187	0.0177778
33.090	193	186	0.0160231
33.100	170	185	0.0182615
33.110	180	184	0.0173130
33.120	189	183	0.0164366
33.130	186	183	0.0168663
33.140	171	182	0.0182615
33.150	187	181	0.0168663
33.160	173	181	0.0177778
33.170	188	180	0.0164366
33.180	182	180	0.0168663
33.190	170	179	0.0182615
33.200	183	179	0.0168663
33.210	181	178	0.0173130
33.220	174	178	0.0177778
33.230	162	178	0.0192901
33.240	162	177	0.0192901
33.250	175	177	0.0177778
33.260	172	177	0.0182615
33.270	177	176	0.0177778
33.280	178	176	0.0173130
33.290	171	176	0.0182615

33.300	185	176	0.0168663
33.310	170	176	0.0182615
33.320	188	175	0.0164366
33.330	171	175	0.0182615
33.340	161	175	0.0192901
33.350	181	175	0.0173130
33.360	175	175	0.0177778
33.370	187	175	0.0164366
33.380	175	175	0.0177778
33.390	178	175	0.0173130
33.400	167	175	0.0187652
33.410	173	175	0.0177778
33.420	174	175	0.0177778
33.430	174	175	0.0177778
33.440	169	175	0.0182615
33.450	169	175	0.0182615
33.460	182	175	0.0173130
33.470	172	175	0.0182615
33.480	171	175	0.0182615
33.490	171	175	0.0182615
33.500	171	176	0.0182615
33.510	172	176	0.0182615
33.520	178	176	0.0173130
33.530	171	176	0.0182615
33.540	175	177	0.0177778
33.550	179	177	0.0173130
33.560	169	177	0.0182615
33.570	193	178	0.0160231
33.580	189	178	0.0164366
33.590	185	179	0.0168663
33.600	176	179	0.0177778
33.610	174	180	0.0177778
33.620	182	181	0.0168663
33.630	195	182	0.0160231
33.640	188	183	0.0164366
33.650	184	184	0.0168663
33.660	187	185	0.0164366
33.670	188	186	0.0164366
33.680	189	188	0.0164366
33.690	203	189	0.0152416
33.700	193	191	0.0160231
33.710	196	194	0.0160231
33.720	211	196	0.0148721
33.730	212	199	0.0145159
33.740	211	203	0.0148721
33.750	224	207	0.0138408
33.760	215	212	0.0145159
33.770	229	218	0.0135208
33.780	233	225	0.0132118
33.790	241	233	0.0129132
33.800	259	241	0.0120758
33.810	259	251	0.0120758
33.820	264	260	0.0118147
33.830	275	269	0.0113173

33.840	286	277	0.0108507
33.850	287	283	0.0108507
33.860	269	289	0.0115620
33.870	295	293	0.0106281
33.880	283	296	0.0110803
33.890	274	298	0.0113173
33.900	284	297	0.0108507
33.910	293	293	0.0106281
33.920	279	287	0.0110803
33.930	270	280	0.0115620
33.940	284	273	0.0108507
33.950	282	266	0.0110803
33.960	266	261	0.0115620
33.970	276	255	0.0113173
33.980	252	251	0.0123457
33.990	260	247	0.0118147
34.000	259	244	0.0118147
34.010	257	241	0.0120758
34.020	250	238	0.0123457
34.030	258	237	0.0120758
34.040	256	235	0.0120758
34.050	250	234	0.0123457
34.060	239	234	0.0129132
34.070	242	234	0.0129132
34.080	253	235	0.0123457
34.090	243	237	0.0126247
34.100	264	239	0.0118147
34.110	268	242	0.0115620
34.120	263	247	0.0118147
34.130	272	252	0.0113173
34.140	281	258	0.0110803
34.150	292	265	0.0106281
34.160	290	274	0.0106281
34.170	304	282	0.0102030
34.180	308	290	0.0100000
34.190	321	297	0.0096117
34.200	329	301	0.0094260
34.210	320	303	0.0096117
34.220	312	301	0.0098030
34.230	328	298	0.0094260
34.240	308	294	0.0100000
34.250	307	289	0.0100000
34.260	298	285	0.0104123
34.270	299	281	0.0104123
34.280	286	278	0.0108507
34.290	292	274	0.0106281
34.300	286	272	0.0108507
34.310	279	269	0.0110803
34.320	277	267	0.0110803
34.330	275	265	0.0113173
34.340	287	263	0.0106281
34.350	290	261	0.0106281
34.360	273	260	0.0113173
34.370	279	259	0.0110803

34.380	274	258	0.0113173
34.390	283	257	0.0108507
34.400	272	257	0.0113173
34.410	268	257	0.0115620
34.420	279	257	0.0110803
34.430	283	258	0.0108507
34.440	268	260	0.0115620
34.450	296	262	0.0104123
34.460	290	265	0.0106281
34.470	285	268	0.0108507
34.480	279	271	0.0110803
34.490	297	276	0.0104123
34.500	305	281	0.0100000
34.510	316	287	0.0098030
34.520	323	294	0.0094260
34.530	330	302	0.0092456
34.540	327	312	0.0094260
34.550	321	322	0.0096117
34.560	351	334	0.0087344
34.570	332	347	0.0092456
34.580	360	360	0.0085734
34.590	381	373	0.0079719
34.600	363	384	0.0084168
34.610	358	392	0.0085734
34.620	388	396	0.0079719
34.630	358	396	0.0085734
34.640	366	390	0.0084168
34.650	359	381	0.0085734
34.660	358	369	0.0085734
34.670	356	355	0.0085734
34.680	330	341	0.0092456
34.690	330	326	0.0092456
34.700	295	313	0.0104123
34.710	312	301	0.0098030
34.720	298	290	0.0102030
34.730	286	280	0.0106281
34.740	300	272	0.0102030
34.750	282	265	0.0108507
34.760	284	259	0.0108507
34.770	272	254	0.0110803
34.780	250	250	0.0120758
34.790	266	247	0.0113173
34.800	271	245	0.0113173
34.810	263	244	0.0115620
34.820	267	244	0.0113173
34.830	264	244	0.0115620
34.840	270	245	0.0113173
34.850	269	248	0.0113173
34.860	269	251	0.0113173
34.870	275	256	0.0110803
34.880	277	262	0.0108507
34.890	266	270	0.0113173
34.900	314	281	0.0096117
34.910	297	293	0.0102030

34.920	313	307	0.0096117
34.930	323	324	0.0094260
34.940	319	342	0.0094260
34.950	318	359	0.0094260
34.960	332	374	0.0090703
34.970	309	384	0.0098030
34.980	333	386	0.0090703
34.990	328	380	0.0092456
35.000	314	368	0.0096117
35.010	307	351	0.0098030
35.020	319	332	0.0094260
35.030	320	314	0.0094260
35.040	305	298	0.0098030
35.050	269	285	0.0113173
35.060	280	274	0.0108507
35.070	289	266	0.0104123
35.080	275	261	0.0108507
35.090	276	259	0.0108507
35.100	263	261	0.0115620
35.110	298	267	0.0100000
35.120	294	279	0.0102030
35.130	317	298	0.0094260
35.140	311	323	0.0096117
35.150	304	349	0.0098030
35.160	319	366	0.0094260
35.170	319	360	0.0094260
35.180	293	335	0.0102030
35.190	290	304	0.0104123
35.200	290	278	0.0104123
35.210	269	260	0.0110803
35.220	256	249	0.0118147
35.230	287	241	0.0104123
35.240	253	237	0.0118147
35.250	253	235	0.0118147
35.260	250	235	0.0120758
35.270	257	235	0.0118147
35.280	247	235	0.0120758
35.290	246	236	0.0120758
35.300	252	236	0.0118147
35.310	247	236	0.0120758
35.320	241	236	0.0123457
35.330	226	235	0.0132118
35.340	237	233	0.0126247
35.350	226	231	0.0132118
35.360	245	229	0.0123457
35.370	231	225	0.0129132
35.380	218	222	0.0138408
35.390	233	218	0.0129132
35.400	228	214	0.0132118
35.410	210	210	0.0141723
35.420	221	207	0.0135208
35.430	213	203	0.0141723
35.440	230	200	0.0129132
35.450	196	198	0.0152416

35.460	212	196	0.0141723
35.470	213	194	0.0141723
35.480	207	192	0.0145159
35.490	204	191	0.0148721
35.500	211	190	0.0141723
35.510	176	189	0.0168663
35.520	198	188	0.0152416
35.530	179	186	0.0168663
35.540	212	184	0.0141723
35.550	190	182	0.0160231
35.560	189	181	0.0160231
35.570	205	180	0.0145159
35.580	182	178	0.0164366
35.590	184	178	0.0164366
35.600	174	177	0.0173130
35.610	168	176	0.0177778
35.620	190	176	0.0160231
35.630	171	176	0.0177778
35.640	183	175	0.0164366
35.650	187	175	0.0160231
35.660	159	175	0.0187652
35.670	177	175	0.0168663
35.680	177	175	0.0168663
35.690	182	175	0.0164366
35.700	194	176	0.0156250
35.710	168	176	0.0177778
35.720	169	176	0.0177778
35.730	171	177	0.0177778
35.740	177	178	0.0168663
35.750	171	178	0.0177778
35.760	178	179	0.0168663
35.770	184	180	0.0164366
35.780	169	181	0.0177778
35.790	188	182	0.0160231
35.800	177	183	0.0168663
35.810	194	185	0.0156250
35.820	188	186	0.0160231
35.830	196	188	0.0152416
35.840	176	190	0.0173130
35.850	179	192	0.0168663
35.860	188	194	0.0160231
35.870	194	197	0.0156250
35.880	206	200	0.0145159
35.890	203	204	0.0148721
35.900	213	208	0.0141723
35.910	203	213	0.0148721
35.920	216	218	0.0138408
35.930	219	224	0.0138408
35.940	245	230	0.0123457
35.950	235	238	0.0129132
35.960	252	247	0.0118147
35.970	242	256	0.0123457
35.980	264	267	0.0113173
35.990	256	278	0.0118147

36.000	274	289	0.0108507
36.010	272	299	0.0110803
36.020	293	307	0.0102030
36.030	287	312	0.0104123
36.040	290	314	0.0104123
36.050	304	314	0.0098030
36.060	289	312	0.0104123
36.070	290	309	0.0104123
36.080	317	307	0.0094260
36.090	300	307	0.0100000
36.100	330	308	0.0090703
36.110	328	313	0.0090703
36.120	334	320	0.0089000
36.130	377	331	0.0078315
36.140	381	347	0.0078315
36.150	414	367	0.0071818
36.160	446	392	0.0066098
36.170	461	422	0.0064000
36.180	513	455	0.0057392
36.190	526	489	0.0056532
36.200	558	518	0.0053279
36.210	566	536	0.0052510
36.220	567	541	0.0052510
36.230	589	536	0.0050299
36.240	579	525	0.0051020
36.250	566	515	0.0052510
36.260	557	510	0.0053279
36.270	536	510	0.0054870
36.280	544	516	0.0054066
36.290	529	526	0.0055692
36.300	521	536	0.0056532
36.310	505	542	0.0058272
36.320	504	542	0.0058272
36.330	501	534	0.0059172
36.340	500	518	0.0059172
36.350	477	496	0.0062000
36.360	450	473	0.0065036
36.370	446	449	0.0066098
36.380	444	425	0.0066098
36.390	412	403	0.0071818
36.400	409	382	0.0071818
36.410	371	363	0.0079719
36.420	373	346	0.0078315
36.430	352	330	0.0082645
36.440	353	315	0.0082645
36.450	318	302	0.0092456
36.460	295	290	0.0100000
36.470	289	280	0.0102030
36.480	290	270	0.0102030
36.490	281	262	0.0104123
36.500	261	255	0.0113173
36.510	262	249	0.0110803
36.520	275	244	0.0106281
36.530	256	239	0.0115620

36.540	243	235	0.0120758
36.550	239	231	0.0123457
36.560	233	226	0.0126247
36.570	218	222	0.0135208
36.580	233	217	0.0126247
36.590	217	212	0.0135208
36.600	226	208	0.0129132
36.610	193	204	0.0152416
36.620	195	201	0.0148721
36.630	192	198	0.0152416
36.640	192	195	0.0152416
36.650	202	193	0.0145159
36.660	190	191	0.0152416
36.670	184	189	0.0160231
36.680	185	188	0.0160231
36.690	173	186	0.0168663
36.700	177	185	0.0164366
36.710	182	184	0.0160231
36.720	171	183	0.0173130
36.730	176	182	0.0168663
36.740	190	181	0.0152416
36.750	178	180	0.0164366
36.760	174	179	0.0168663
36.770	183	178	0.0160231
36.780	178	177	0.0164366
36.790	179	177	0.0164366
36.800	167	176	0.0177778
36.810	185	176	0.0160231
36.820	171	175	0.0173130
36.830	183	175	0.0160231
36.840	160	175	0.0182615
36.850	169	175	0.0173130
36.860	163	175	0.0177778
36.870	162	176	0.0182615
36.880	174	176	0.0168663
36.890	184	177	0.0160231
36.900	182	178	0.0160231
36.910	179	179	0.0164366
36.920	181	180	0.0164366
36.930	179	181	0.0164366
36.940	184	183	0.0160231
36.950	200	185	0.0145159
36.960	187	188	0.0156250
36.970	191	191	0.0152416
36.980	196	193	0.0148721
36.990	195	196	0.0148721
37.000	194	198	0.0148721
37.010	195	200	0.0148721
37.020	188	201	0.0156250
37.030	197	201	0.0148721
37.040	205	202	0.0141723
37.050	194	202	0.0148721
37.060	203	203	0.0145159
37.070	224	204	0.0129132

37.080	202	205	0.0145159
37.090	221	206	0.0132118
37.100	206	207	0.0141723
37.110	211	207	0.0138408
37.120	203	207	0.0141723
37.130	209	207	0.0138408
37.140	204	207	0.0141723
37.150	205	207	0.0141723
37.160	215	206	0.0135208
37.170	211	205	0.0138408
37.180	199	204	0.0145159
37.190	209	203	0.0138408
37.200	221	202	0.0132118
37.210	198	201	0.0145159
37.220	192	201	0.0152416
37.230	197	201	0.0145159
37.240	212	200	0.0138408
37.250	192	201	0.0152416
37.260	206	201	0.0141723
37.270	216	201	0.0135208
37.280	215	202	0.0135208
37.290	209	203	0.0138408
37.300	191	204	0.0152416
37.310	202	205	0.0141723
37.320	204	205	0.0141723
37.330	213	206	0.0135208
37.340	208	206	0.0138408
37.350	197	206	0.0148721
37.360	218	205	0.0132118
37.370	203	204	0.0141723
37.380	204	203	0.0141723
37.390	194	201	0.0148721
37.400	193	199	0.0148721
37.410	190	197	0.0152416
37.420	195	195	0.0148721
37.430	201	193	0.0145159
37.440	201	190	0.0145159
37.450	190	188	0.0152416
37.460	191	187	0.0152416
37.470	188	185	0.0156250
37.480	185	184	0.0156250
37.490	185	182	0.0156250
37.500	188	182	0.0156250
37.510	168	181	0.0173130
37.520	193	181	0.0152416
37.530	181	181	0.0160231
37.540	190	181	0.0152416
37.550	183	181	0.0160231
37.560	181	181	0.0160231
37.570	183	181	0.0160231
37.580	182	180	0.0160231
37.590	175	179	0.0168663
37.600	173	177	0.0168663
37.610	171	176	0.0168663

37.620	185	175	0.0156250
37.630	168	173	0.0173130
37.640	160	173	0.0182615
37.650	168	172	0.0173130
37.660	168	171	0.0173130
37.670	168	171	0.0173130
37.680	177	171	0.0164366
37.690	174	171	0.0168663
37.700	148	171	0.0198373
37.710	165	171	0.0177778
37.720	159	171	0.0182615
37.730	168	170	0.0173130
37.740	176	169	0.0164366
37.750	158	168	0.0182615
37.760	166	167	0.0173130
37.770	155	165	0.0187652
37.780	148	164	0.0198373
37.790	151	163	0.0192901
37.800	139	162	0.0210040
37.810	156	161	0.0187652
37.820	155	160	0.0187652
37.830	157	159	0.0182615
37.840	150	158	0.0192901
37.850	144	158	0.0198373
37.860	161	158	0.0177778
37.870	143	157	0.0204082
37.880	156	157	0.0187652
37.890	155	157	0.0187652
37.900	141	157	0.0204082
37.910	157	158	0.0182615
37.920	165	158	0.0173130
37.930	149	159	0.0192901
37.940	157	159	0.0182615
37.950	146	160	0.0198373
37.960	153	161	0.0187652
37.970	171	163	0.0168663
37.980	164	164	0.0173130
37.990	172	166	0.0164366
38.000	169	168	0.0168663
38.010	161	171	0.0177778
38.020	177	173	0.0160231
38.030	175	175	0.0164366
38.040	175	177	0.0164366
38.050	179	178	0.0160231
38.060	169	178	0.0168663
38.070	153	178	0.0187652
38.080	152	177	0.0187652
38.090	174	176	0.0164366
38.100	176	174	0.0160231
38.110	171	172	0.0164366
38.120	163	170	0.0173130
38.130	161	168	0.0177778
38.140	165	167	0.0173130
38.150	162	166	0.0173130

38.160	164	165	0.0173130
38.170	165	165	0.0173130
38.180	163	164	0.0173130
38.190	178	165	0.0160231
38.200	173	165	0.0164366
38.210	156	166	0.0182615
38.220	168	166	0.0168663
38.230	165	167	0.0173130
38.240	169	167	0.0168663
38.250	167	168	0.0168663
38.260	169	168	0.0168663
38.270	183	169	0.0152416
38.280	170	171	0.0168663
38.290	154	173	0.0182615
38.300	151	176	0.0187652
38.310	184	179	0.0152416
38.320	154	182	0.0182615
38.330	161	184	0.0173130
38.340	160	184	0.0177778
38.350	175	182	0.0160231
38.360	154	178	0.0182615
38.370	152	174	0.0187652
38.380	154	170	0.0182615
38.390	164	167	0.0173130
38.400	155	165	0.0182615
38.410	151	164	0.0187652
38.420	154	162	0.0182615
38.430	158	162	0.0177778
38.440	167	161	0.0168663
38.450	160	161	0.0177778
38.460	165	161	0.0173130
38.470	153	161	0.0182615
38.480	156	161	0.0182615
38.490	158	162	0.0177778
38.500	167	162	0.0168663
38.510	168	163	0.0168663
38.520	166	164	0.0168663
38.530	175	165	0.0160231
38.540	168	166	0.0168663
38.550	165	167	0.0173130
38.560	162	169	0.0173130
38.570	182	171	0.0156250
38.580	182	173	0.0156250
38.590	193	175	0.0148721
38.600	174	178	0.0164366
38.610	172	181	0.0164366
38.620	192	184	0.0148721
38.630	197	188	0.0145159
38.640	199	192	0.0141723
38.650	186	196	0.0152416
38.660	194	201	0.0145159
38.670	220	206	0.0129132
38.680	201	210	0.0141723
38.690	203	215	0.0138408

38.700	203	218	0.0141723
38.710	204	221	0.0138408
38.720	210	223	0.0135208
38.730	209	223	0.0135208
38.740	205	223	0.0138408
38.750	210	222	0.0135208
38.760	209	220	0.0135208
38.770	217	219	0.0132118
38.780	222	217	0.0129132
38.790	229	216	0.0123457
38.800	237	215	0.0120758
38.810	222	214	0.0129132
38.820	212	214	0.0135208
38.830	227	215	0.0126247
38.840	225	216	0.0126247
38.850	228	217	0.0123457
38.860	234	219	0.0120758
38.870	250	222	0.0113173
38.880	239	225	0.0118147
38.890	234	228	0.0120758
38.900	245	232	0.0115620
38.910	243	237	0.0118147
38.920	269	242	0.0106281
38.930	250	249	0.0113173
38.940	261	258	0.0108507
38.950	270	269	0.0104123
38.960	266	281	0.0106281
38.970	269	294	0.0106281
38.980	271	304	0.0104123
38.990	268	306	0.0106281
39.000	275	299	0.0104123
39.010	260	287	0.0108507
39.020	250	274	0.0113173
39.030	259	262	0.0108507
39.040	248	253	0.0115620
39.050	259	245	0.0108507
39.060	247	240	0.0115620
39.070	247	236	0.0115620
39.080	240	234	0.0118147
39.090	260	233	0.0108507
39.100	249	233	0.0113173
39.110	255	234	0.0110803
39.120	267	236	0.0106281
39.130	253	240	0.0110803
39.140	259	246	0.0108507
39.150	259	253	0.0108507
39.160	277	261	0.0102030
39.170	282	271	0.0100000
39.180	304	280	0.0092456
39.190	306	289	0.0092456
39.200	312	296	0.0090703
39.210	331	299	0.0085734
39.220	304	298	0.0092456
39.230	319	295	0.0089000

39.240	292	290	0.0096117
39.250	310	286	0.0090703
39.260	322	284	0.0087344
39.270	303	286	0.0092456
39.280	286	291	0.0098030
39.290	290	299	0.0096117
39.300	283	306	0.0100000
39.310	280	307	0.0100000
39.320	290	299	0.0096117
39.330	275	285	0.0102030
39.340	266	269	0.0104123
39.350	279	255	0.0100000
39.360	251	244	0.0110803
39.370	263	236	0.0106281
39.380	257	230	0.0108507
39.390	233	227	0.0118147
39.400	232	224	0.0120758
39.410	224	223	0.0123457
39.420	260	223	0.0106281
39.430	235	223	0.0118147
39.440	246	224	0.0113173
39.450	236	226	0.0118147
39.460	245	228	0.0113173
39.470	247	231	0.0113173
39.480	248	235	0.0110803
39.490	252	238	0.0110803
39.500	244	242	0.0113173
39.510	259	245	0.0108507
39.520	236	247	0.0118147
39.530	229	248	0.0120758
39.540	255	246	0.0108507
39.550	235	243	0.0118147
39.560	243	239	0.0113173
39.570	227	234	0.0123457
39.580	243	229	0.0113173
39.590	227	224	0.0123457
39.600	211	219	0.0132118
39.610	217	214	0.0129132
39.620	220	210	0.0126247
39.630	213	206	0.0129132
39.640	203	203	0.0135208
39.650	194	199	0.0141723
39.660	196	196	0.0141723
39.670	195	193	0.0141723
39.680	203	191	0.0135208
39.690	200	189	0.0138408
39.700	188	186	0.0148721
39.710	177	184	0.0156250
39.720	183	183	0.0152416
39.730	180	181	0.0156250
39.740	185	180	0.0148721
39.750	181	179	0.0152416
39.760	184	178	0.0152416
39.770	181	177	0.0152416

39.780	189	177	0.0148721
39.790	187	177	0.0148721
39.800	194	177	0.0141723
39.810	187	177	0.0148721
39.820	190	178	0.0145159
39.830	193	179	0.0145159
39.840	181	180	0.0152416
39.850	181	182	0.0152416
39.860	194	184	0.0145159
39.870	190	186	0.0145159
39.880	210	189	0.0132118
39.890	181	192	0.0152416
39.900	204	196	0.0135208
39.910	198	200	0.0141723
39.920	202	205	0.0138408
39.930	209	211	0.0132118
39.940	216	217	0.0129132
39.950	211	223	0.0132118
39.960	221	229	0.0126247
39.970	210	234	0.0132118
39.980	218	239	0.0126247
39.990	219	242	0.0126247
40.000	218	244	0.0126247
40.010	201	243	0.0138408
40.020	217	241	0.0126247
40.030	228	237	0.0120758
40.040	229	232	0.0120758
40.050	210	227	0.0132118
40.060	213	222	0.0129132
40.070	224	216	0.0123457
40.080	215	212	0.0129132
40.090	218	207	0.0126247
40.100	214	204	0.0129132
40.110	204	201	0.0135208
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40.130	201	198	0.0138408
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40.150	218	199	0.0126247
40.160	207	201	0.0132118
40.170	219	204	0.0126247
40.180	233	208	0.0118147
40.190	226	215	0.0123457
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40.210	243	233	0.0113173
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40.230	233	261	0.0118147
40.240	239	276	0.0115620
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40.260	239	298	0.0115620
40.270	248	298	0.0110803
40.280	234	291	0.0118147
40.290	228	277	0.0120758
40.300	225	262	0.0123457
40.310	217	247	0.0126247

40.320	232	234	0.0118147
40.330	234	223	0.0118147
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40.380	199	195	0.0138408
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40.400	190	191	0.0145159
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40.420	182	188	0.0148721
40.430	171	188	0.0160231
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40.460	194	187	0.0141723
40.470	200	187	0.0138408
40.480	196	186	0.0138408
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40.510	196	180	0.0141723
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40.570	166	168	0.0164366
40.580	172	167	0.0160231
40.590	159	166	0.0173130
40.600	180	166	0.0152416
40.610	156	165	0.0177778
40.620	166	165	0.0164366
40.630	164	165	0.0168663
40.640	171	166	0.0160231
40.650	179	166	0.0152416
40.660	155	167	0.0177778
40.670	168	167	0.0164366
40.680	173	168	0.0160231
40.690	172	169	0.0160231
40.700	161	170	0.0173130
40.710	162	172	0.0168663
40.720	173	173	0.0160231
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40.740	180	177	0.0152416
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40.770	178	184	0.0156250
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40.790	182	189	0.0152416
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40.820	192	198	0.0145159
40.830	204	201	0.0135208
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40.990	230	207	0.0118147
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41.010	206	204	0.0132118
41.020	209	203	0.0129132
41.030	211	202	0.0129132
41.040	206	201	0.0132118
41.050	225	201	0.0120758
41.060	230	201	0.0118147
41.070	210	201	0.0129132
41.080	211	202	0.0129132
41.090	195	203	0.0138408
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41.120	220	209	0.0123457
41.130	217	211	0.0126247
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41.160	235	218	0.0115620
41.170	231	221	0.0118147
41.180	217	223	0.0123457
41.190	223	225	0.0120758
41.200	222	227	0.0120758
41.210	223	228	0.0120758
41.220	216	228	0.0123457
41.230	219	228	0.0123457
41.240	219	227	0.0123457
41.250	234	226	0.0115620
41.260	230	225	0.0118147
41.270	213	223	0.0126247
41.280	230	221	0.0118147
41.290	200	219	0.0135208
41.300	215	217	0.0126247
41.310	203	215	0.0132118
41.320	222	214	0.0120758
41.330	234	213	0.0115620
41.340	209	213	0.0129132
41.350	224	213	0.0120758
41.360	205	215	0.0132118
41.370	234	216	0.0115620
41.380	226	218	0.0118147
41.390	217	221	0.0123457

41.400	221	222	0.0120758
41.410	225	223	0.0118147
41.420	221	223	0.0120758
41.430	214	221	0.0126247
41.440	204	219	0.0132118
41.450	211	217	0.0126247
41.460	212	214	0.0126247
41.470	219	213	0.0123457
41.480	227	212	0.0118147
41.490	205	211	0.0132118
41.500	223	212	0.0120758
41.510	197	213	0.0135208
41.520	208	214	0.0129132
41.530	206	215	0.0129132
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41.550	193	216	0.0138408
41.560	202	216	0.0132118
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41.580	201	212	0.0132118
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41.600	205	205	0.0132118
41.610	191	200	0.0141723
41.620	204	196	0.0132118
41.630	183	192	0.0145159
41.640	203	188	0.0132118
41.650	175	185	0.0152416
41.660	180	181	0.0148721
41.670	196	179	0.0138408
41.680	180	176	0.0148721
41.690	200	174	0.0135208
41.700	203	173	0.0132118
41.710	188	171	0.0145159
41.720	163	171	0.0164366
41.730	185	170	0.0145159
41.740	180	170	0.0148721
41.750	186	170	0.0145159
41.760	179	171	0.0152416
41.770	193	172	0.0138408
41.780	163	173	0.0164366
41.790	189	175	0.0141723
41.800	186	176	0.0145159
41.810	177	178	0.0152416
41.820	186	180	0.0145159
41.830	190	182	0.0141723
41.840	191	184	0.0141723
41.850	180	185	0.0148721
41.860	183	186	0.0148721
41.870	179	186	0.0148721
41.880	198	186	0.0135208
41.890	190	185	0.0141723
41.900	186	184	0.0145159
41.910	180	183	0.0148721
41.920	185	182	0.0145159
41.930	187	181	0.0145159

41.940	174	180	0.0156250
41.950	187	180	0.0145159
41.960	183	181	0.0148721
41.970	194	181	0.0138408
41.980	183	183	0.0148721
41.990	187	185	0.0145159
42.000	191	188	0.0141723
42.010	194	190	0.0138408
42.020	187	192	0.0145159
42.030	198	194	0.0135208
42.040	210	196	0.0129132
42.050	209	198	0.0129132
42.060	204	200	0.0132118
42.070	179	203	0.0148721
42.080	190	206	0.0141723
42.090	195	209	0.0138408
42.100	201	213	0.0132118
42.110	193	215	0.0138408
42.120	187	215	0.0145159
42.130	186	213	0.0145159
42.140	205	209	0.0132118
42.150	178	203	0.0152416
42.160	193	197	0.0138408
42.170	179	190	0.0148721
42.180	182	184	0.0148721
42.190	180	179	0.0148721
42.200	183	174	0.0145159
42.210	168	169	0.0160231
42.220	160	166	0.0168663
42.230	158	162	0.0168663
42.240	166	160	0.0160231
42.250	163	157	0.0164366
42.260	165	156	0.0160231
42.270	146	154	0.0182615
42.280	164	153	0.0164366
42.290	152	152	0.0177778
42.300	152	151	0.0177778
42.310	142	151	0.0187652
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42.330	149	150	0.0177778
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42.350	154	150	0.0173130
42.360	151	150	0.0177778
42.370	152	151	0.0173130
42.380	154	151	0.0173130
42.390	156	152	0.0168663
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42.410	147	153	0.0182615
42.420	149	154	0.0177778
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42.440	149	156	0.0177778
42.450	167	156	0.0160231
42.460	157	157	0.0168663
42.470	145	158	0.0182615

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42.490	140	158	0.0187652
42.500	155	158	0.0168663
42.510	148	158	0.0177778
42.520	155	158	0.0168663
42.530	154	158	0.0173130
42.540	149	158	0.0177778
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42.560	162	157	0.0164366
42.570	157	157	0.0168663
42.580	147	158	0.0177778
42.590	162	158	0.0164366
42.600	148	159	0.0177778
42.610	166	160	0.0160231
42.620	153	161	0.0173130
42.630	161	162	0.0164366
42.640	160	164	0.0164366
42.650	147	166	0.0177778
42.660	168	169	0.0156250
42.670	183	172	0.0145159
42.680	177	175	0.0148721
42.690	165	179	0.0160231
42.700	174	182	0.0152416
42.710	168	185	0.0156250
42.720	170	187	0.0156250
42.730	169	188	0.0156250
42.740	175	189	0.0148721
42.750	175	188	0.0152416
42.760	161	186	0.0164366
42.770	184	185	0.0141723
42.780	167	182	0.0156250
42.790	181	180	0.0145159
42.800	174	178	0.0152416
42.810	180	175	0.0145159
42.820	175	173	0.0148721
42.830	171	171	0.0152416
42.840	146	169	0.0177778
42.850	157	167	0.0168663
42.860	165	165	0.0160231
42.870	162	164	0.0164366
42.880	164	162	0.0160231
42.890	168	161	0.0156250
42.900	151	160	0.0173130
42.910	167	159	0.0156250
42.920	167	158	0.0156250
42.930	159	158	0.0164366
42.940	180	157	0.0145159
42.950	157	157	0.0168663
42.960	153	157	0.0173130
42.970	163	157	0.0160231
42.980	168	157	0.0156250
42.990	145	158	0.0138408
43.000	156	158	0.0120758
43.010	176	159	0.0222767

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43.050	167	163	0.0229568
43.060	171	164	0.0229568
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43.080	175	166	0.0222767
43.090	191	167	0.0204082
43.100	171	169	0.0229568
43.110	175	170	0.0222767
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43.190	198	196	0.0198373
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43.250	205	209	0.0192901
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43.280	209	202	0.0187652
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43.330	215	212	0.0182615
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43.410	229	236	0.0173130
43.420	226	227	0.0177778
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43.550	157	163	0.0251953

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43.570	162	160	0.0244141
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43.590	134	158	0.0297265
43.600	152	157	0.0260146
43.610	168	156	0.0236686
43.620	160	155	0.0251953
43.630	150	154	0.0268745
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43.670	147	152	0.0277778
43.680	149	151	0.0268745
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44.710	143	135	0.0287274
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data_As66

5. CHEMICAL DATA

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_chemical_formula_sum	'As1.98 Ca5 H O13 P1.02'
_chemical_formula_weight	588.96

loop_
_atom_type_symbol
_atom_type_description
_atom_type_scatter_dispersion_real

```

_atom_type_scatter_dispersion_imag
_atom_type_scatter_source
_atom_type_scatter_length_neutron    # include if applicable
?   ?   ?   ?   ?   ?

#=====

# 6. POWDER SPECIMEN AND CRYSTAL DATA

_space_group_crystal_system    hexagonal
_space_group_name_H-M_alt      'P63/m'

loop_
  _symmetry_equiv_pos_site_id
  _symmetry_equiv_pos_as_xyz    #<--must include 'x,y,z'
1 '-x, -y, -z'
2 '-x, -y, z+1/2'
3 '-x+y, -x, -z+1/2'
4 '-x+y, -x, z'
5 '-y, x-y, -z+1/2'
6 '-y, x-y, z'
7 'y, -x+y, -z'
8 'y, -x+y, z+1/2'
9 'x-y, x, -z'
10 'x-y, x, z+1/2'
11 'x, y, -z+1/2'
12 'x, y, z'

_cell_length_a 9.6311(3)
_cell_length_b 9.6311(3)
_cell_length_c 6.9556(2)
_cell_angle_alpha 90
_cell_angle_beta 90
_cell_angle_gamma 120
_cell_volume 558.74(3)
_cell_measurement_temperature 293
_cell_special_details
; ?
;

# The next three fields give the specimen dimensions in mm. The equatorial
# plane contains the incident and diffracted beam.

_pd_spec_size_axial      8    # perpendicular to
                           # equatorial plane

_pd_spec_size_equat      1    # parallel to
                           # scattering vector
                           # in transmission

_pd_spec_size_thick      1    # parallel to
                           # scattering vector
                           # in reflection

```

The next five fields are character fields that describe the specimen.

```
_pd_spec_mounting          # This field should be
                           # used to give details of the
                           # container.
;
glass capillary(nominal diameter 1mm)
;
_pd_spec_mount_mode        transmission    # options are 'reflection'
                           # or 'transmission'

_pd_spec_shape             cylinder      # options are 'cylinder'
                           # 'flat_sheet' or 'irregular'

_pd_char_particle_morphology ?
_pd_char_colour            white        # use ICDD colour descriptions
```

The next four fields are normally only needed for transmission experiments.

```
_exptl_absorpt_correction_type none      # include if applicable
```

#=====

7. EXPERIMENTAL DATA

```
_exptl_special_details
; ?
;

_pd_instr_location
;
X16C, National Synchrotron Light Source, Brookhaven National Laboratory
;
_pd_calibration_special_details      # description of the method used
                                     # to calibrate the instrument
;
NIST standard reference material 1976(sintered plate of Al2O3)
7 isolated reflections were used to calibrate wavelength and detector zero.
;

_diffrn_ambient_temperature 293
_diffrn_source               synchrotron
_diffrn_source_target        ?
_diffrn_source_type          ?
_diffrn_radiation_type       synchrotron
_diffrn_measurement_device_type 'Huber diffractometer'
_diffrn_detector              'NaI scintillation counter'
_diffrn_detector_type         ?      # make or model of detector

_pd_meas_scan_method          step    # options are 'step', 'cont',
                                     # 'tof', 'fixed' or
                                     # 'disp' (= dispersive)

_pd_meas_special_details
; ?
```

;

The following six items are used for angular dispersive measurements only.

_diffrn_radiation_wavelength 0.69850
_diffrn_radiation_monochromator 'Si(111) double reflection monochromator'

The following four items give details of the measured (not processed)

powder pattern. Angles are in degrees.

_pd_meas_number_of_points 4301
_pd_meas_2theta_range_min 2.00
_pd_meas_2theta_range_max 45.00
_pd_meas_2theta_range_inc .01

#=====

8. REFINEMENT DATA

Use the next field to give any special details about the fitting of the

powder pattern.

_pd_proc_ls_special_details
;
Rietveld refinement of all structural parameters.
H atom omitted
One common thermal parameter for all atoms
;

The next three items are given as text.

_pd_proc_ls_profile_function
;
Simple_Axial_Model function in TOPAS
Anisotropic strain broadening 3 parameters refined
;
_pd_proc_ls_background_function
;
Chebyshev polynomial of 7th order plus 1/2theta
;
_pd_proc_ls_pref_orient_corr 'none'

_pd_proc_ls_prof_R_factor 0.04816
_pd_proc_ls_prof_wR_factor 0.06334
_pd_proc_ls_prof_wR_expected 0.02883
_refine_ls_R_I_factor ?
_refine_ls_R_Fsqd_factor ?
_refine_ls_R_factor_all ?

_refine_special_details
; ?
;

```

_refine_ls_matrix_type      ?
_refine_ls_weighting_scheme sigma # options are 'sigma' (based on measured su's)
                             # or 'calc' (calculated weights)
_refine_ls_weighting_details '1/(sigma*sigma)'
_refine_ls_hydrogen_treatment none
_refine_ls_extinction_method 'none'
_refine_ls_extinction_coef   ?
_refine_ls_number_parameters 34
_refine_ls_number_restraints  ?
_refine_ls_number_constraints ?

```

The following item is the same as CHI, the square root of 'CHI squared'

```
_refine_ls_goodness_of_fit_all 2.197
```

```

_refine_ls_restrained_S_all    ?
_refine_ls_shift/su_max        ?
_refine_ls_shift/su_mean       ?

```

The following four items apply to angular dispersive measurements.

2theta minimum, maximum and increment (in degrees) are for the

intensities used in the refinement.

```

_pd_proc_2theta_range_min      2.0
_pd_proc_2theta_range_max      45.0
_pd_proc_2theta_range_inc      0.01
_pd_proc_wavelength             0.69850

```

Each refinement must be accompanied by a listing of the powder data

in CIF format. Each listing should be sent as a separate file consisting

of one data block containing a single powder profile. The value of

`_pd_block_diffraction_id` is used to associate each refinement with

its corresponding powder profile, since it must match the value

of `_pd_block_id` in the file containing the powder data. A template

for supplying powder data in CIF format is available by ftp at

<ftp://ftp.iucr.org/pub/rietdataform.cif> and an example is given

at <ftp://ftp.iucr.org/pub/rietdataxmpl.cif>.

```
_pd_block_diffraction_id      HAP_As66_profile
```

Give appropriate details in the next two text fields.

```

_pd_proc_info_excluded_regions 'none'
_pd_proc_info_data_reduction    ?

```

The following items are used to identify the programs used.

```

_computing_data_collection      SPEC
_computing_cell_refinement      TOPAS
_computing_data_reduction       ?
_computing_structure_solution   ?
_computing_structure_refinement TOPAS
_computing_molecular_graphics   ?
_computing_publication_material ?

```

#=====

9. ATOMIC COORDINATES AND DISPLACEMENT PARAMETERS

```
loop_
  _atom_site_label
  _atom_site_type_symbol
  _atom_site_symmetry_multiplicity
  _atom_site_fract_x
  _atom_site_fract_y
  _atom_site_fract_z
  _atom_site_occupancy
  _atom_site_B_iso_or_equiv
O1 O   6 0.31574(81) 0.48814(71) 0.25 1 0.938(28)
O2 O   6 0.59280(72) 0.46464(76) 0.25 1 0.938(28)
O3 O  12 0.33820(52) 0.25264(55) 0.05984(60) 1 0.938(28)
As1 As  6 0.39679(19) 0.36873(18) 0.25 0.6573(44) 0.938(28)
P1 P   6 0.39679(19) 0.36873(18) 0.25 0.3427(44) 0.938(28)
Ca1 Ca  4 0.3333333 0.6666667 0.00361(55) 1 0.938(28)
Ca2 Ca  6 0.24578(26) 0.99645(34) 0.25 1 0.938(28)
O4 O   4 0 0 0.6955(18) 0.5 0.938(28)
```

Note: if the displacement parameters were refined anisotropically
the U matrices should be given as for single-crystal studies.

```
loop_
  _atom_site_aniso_label
  _atom_site_aniso_U_11
  _atom_site_aniso_U_22
  _atom_site_aniso_U_33
  _atom_site_aniso_U_12
  _atom_site_aniso_U_13
  _atom_site_aniso_U_23
  _atom_site_aniso_type_symbol
? ? ? ? ? ? ?
```

```
#####
###  CIF submission form for powder diffraction data (IUCr journals)  ###
###                               Version 11 February 2005  ###
#####
```

This is an electronic "form" for submitting powder diffraction data in CIF
format to an IUCr journal. The data for each powder profile should be sent
as a separate file consisting of one data block. The value of _pd_block_id
is used to associate each powder profile with a Rietveld refinement, since
it must match the value of _pd_block_diffraction_id in the CIF used to
report the results of the refinement. The current version of the powder
CIF dictionary, which contains definitions of the terms starting _pd_,
may be obtained from <http://www.iucr.org/iucr-top/cif/pd/index.html>.
Note that the query marks '?' are significant as placeholders, and should
not be deleted where a data item is not given, UNLESS the accompanying data

name is also deleted. Lines should not exceed 80 characters in length. The
comments following a hash symbol '#' may be deleted if wished.

data_HAP_As66_pattern

_pd_block_id HAP_As66_pattern

loop_			
_pd_proc_2theta_corrected			
_pd_proc_intensity_net			
_pd_calc_intensity_net			
_pd_proc_ls_weight			
2.000	567	546	0.0042166
2.010	553	543	0.0043283
2.020	534	539	0.0045043
2.030	543	536	0.0044444
2.040	550	532	0.0043858
2.050	534	529	0.0045043
2.060	535	525	0.0045043
2.070	499	522	0.0048225
2.080	538	518	0.0044444
2.090	514	515	0.0046913
2.100	517	512	0.0046277
2.110	506	508	0.0047562
2.120	500	505	0.0048225
2.130	498	502	0.0048225
2.140	496	499	0.0048225
2.150	518	496	0.0046277
2.160	507	493	0.0047562
2.170	504	490	0.0047562
2.180	490	487	0.0048902
2.190	498	484	0.0048225
2.200	471	481	0.0051020
2.210	462	478	0.0051757
2.220	492	475	0.0048902
2.230	470	472	0.0051020
2.240	455	469	0.0052510
2.250	446	466	0.0054066
2.260	442	463	0.0054066
2.270	448	461	0.0053279
2.280	453	458	0.0052510
2.290	439	455	0.0054870
2.300	458	453	0.0052510
2.310	424	450	0.0056532
2.320	434	447	0.0054870
2.330	419	445	0.0057392
2.340	470	442	0.0051020
2.350	420	440	0.0057392
2.360	417	437	0.0057392
2.370	430	435	0.0055692
2.380	427	432	0.0056532
2.390	436	430	0.0054870
2.400	401	428	0.0060093

2.410	455	425	0.0052510
2.420	437	423	0.0054870
2.430	412	420	0.0058272
2.440	406	418	0.0059172
2.450	420	416	0.0056532
2.460	392	414	0.0061035
2.470	381	411	0.0062988
2.480	422	409	0.0056532
2.490	390	407	0.0061035
2.500	401	405	0.0060093
2.510	404	403	0.0059172
2.520	394	401	0.0061035
2.530	372	398	0.0064000
2.540	408	396	0.0058272
2.550	388	394	0.0062000
2.560	389	392	0.0062000
2.570	378	390	0.0062988
2.580	369	388	0.0065036
2.590	381	386	0.0062988
2.600	369	384	0.0065036
2.610	373	382	0.0064000
2.620	366	380	0.0065036
2.630	373	378	0.0064000
2.640	367	377	0.0065036
2.650	369	375	0.0065036
2.660	384	373	0.0062000
2.670	360	371	0.0066098
2.680	360	369	0.0066098
2.690	383	367	0.0062988
2.700	365	366	0.0066098
2.710	350	364	0.0068301
2.720	363	362	0.0066098
2.730	353	360	0.0068301
2.740	365	359	0.0066098
2.750	360	357	0.0066098
2.760	360	355	0.0066098
2.770	350	354	0.0068301
2.780	361	352	0.0066098
2.790	375	350	0.0064000
2.800	352	349	0.0068301
2.810	346	347	0.0069444
2.820	355	345	0.0067186
2.830	343	344	0.0069444
2.840	323	342	0.0074316
2.850	338	341	0.0070616
2.860	326	339	0.0073051
2.870	328	338	0.0073051
2.880	328	336	0.0073051
2.890	337	335	0.0070616
2.900	321	333	0.0074316
2.910	314	332	0.0076947
2.920	305	330	0.0078315
2.930	340	329	0.0070616
2.940	324	327	0.0074316

2.950	321	326	0.0074316
2.960	301	325	0.0079719
2.970	317	323	0.0075614
2.980	300	322	0.0079719
2.990	311	320	0.0076947
3.000	323	319	0.0074316
3.010	319	318	0.0075614
3.020	306	316	0.0078315
3.030	305	315	0.0078315
3.040	329	314	0.0073051
3.050	309	312	0.0076947
3.060	316	311	0.0075614
3.070	314	310	0.0076947
3.080	320	309	0.0075614
3.090	306	307	0.0078315
3.100	317	306	0.0075614
3.110	299	305	0.0079719
3.120	285	304	0.0084168
3.130	309	302	0.0076947
3.140	295	301	0.0081162
3.150	310	300	0.0076947
3.160	310	299	0.0076947
3.170	291	298	0.0082645
3.180	302	297	0.0079719
3.190	291	295	0.0082645
3.200	311	294	0.0076947
3.210	294	293	0.0081162
3.220	287	292	0.0084168
3.230	297	291	0.0081162
3.240	302	290	0.0079719
3.250	283	289	0.0084168
3.260	271	288	0.0089000
3.270	279	287	0.0085734
3.280	298	285	0.0081162
3.290	277	284	0.0087344
3.300	284	283	0.0084168
3.310	279	282	0.0085734
3.320	289	281	0.0082645
3.330	288	280	0.0082645
3.340	278	279	0.0085734
3.350	302	278	0.0079719
3.360	274	277	0.0087344
3.370	278	276	0.0085734
3.380	267	275	0.0089000
3.390	273	274	0.0087344
3.400	284	273	0.0084168
3.410	289	273	0.0082645
3.420	253	272	0.0094260
3.430	269	271	0.0089000
3.440	278	270	0.0085734
3.450	281	269	0.0085734
3.460	281	268	0.0085734
3.470	276	267	0.0087344
3.480	271	266	0.0089000

3.490	271	266	0.0089000
3.500	282	265	0.0085734
3.510	243	264	0.0098030
3.520	259	264	0.0092456
3.530	264	263	0.0090703
3.540	272	262	0.0087344
3.550	266	261	0.0090703
3.560	277	260	0.0087344
3.570	280	259	0.0085734
3.580	262	259	0.0092456
3.590	254	258	0.0094260
3.600	257	257	0.0094260
3.610	271	256	0.0089000
3.620	265	255	0.0090703
3.630	255	255	0.0094260
3.640	276	254	0.0087344
3.650	272	253	0.0089000
3.660	275	252	0.0087344
3.670	252	252	0.0094260
3.680	249	251	0.0096117
3.690	269	250	0.0089000
3.700	244	250	0.0098030
3.710	253	249	0.0094260
3.720	245	248	0.0098030
3.730	258	247	0.0092456
3.740	249	247	0.0096117
3.750	234	246	0.0102030
3.760	254	245	0.0094260
3.770	263	245	0.0090703
3.780	240	244	0.0100000
3.790	258	243	0.0092456
3.800	259	243	0.0092456
3.810	253	242	0.0094260
3.820	254	241	0.0094260
3.830	248	241	0.0096117
3.840	244	240	0.0098030
3.850	257	240	0.0092456
3.860	226	239	0.0106281
3.870	243	238	0.0098030
3.880	220	238	0.0108507
3.890	240	237	0.0100000
3.900	227	237	0.0106281
3.910	248	236	0.0096117
3.920	251	235	0.0096117
3.930	250	235	0.0096117
3.940	225	234	0.0106281
3.950	251	234	0.0096117
3.960	231	233	0.0104123
3.970	238	233	0.0100000
3.980	249	232	0.0096117
3.990	240	232	0.0100000
4.000	248	231	0.0096117
4.010	232	231	0.0104123
4.020	230	230	0.0104123

4.030	219	230	0.0108507
4.040	225	229	0.0106281
4.050	254	229	0.0094260
4.060	251	228	0.0094260
4.070	226	228	0.0106281
4.080	227	227	0.0106281
4.090	231	227	0.0104123
4.100	212	226	0.0113173
4.110	230	226	0.0104123
4.120	241	226	0.0098030
4.130	246	225	0.0098030
4.140	222	225	0.0108507
4.150	232	225	0.0102030
4.160	237	224	0.0100000
4.170	233	224	0.0102030
4.180	255	223	0.0094260
4.190	223	223	0.0106281
4.200	233	223	0.0102030
4.210	240	223	0.0100000
4.220	239	222	0.0100000
4.230	240	222	0.0100000
4.240	241	222	0.0100000
4.250	235	222	0.0102030
4.260	236	221	0.0100000
4.270	241	221	0.0098030
4.280	229	221	0.0104123
4.290	222	221	0.0106281
4.300	224	221	0.0106281
4.310	228	221	0.0104123
4.320	236	221	0.0100000
4.330	216	221	0.0110803
4.340	245	221	0.0096117
4.350	228	221	0.0104123
4.360	235	221	0.0102030
4.370	238	221	0.0100000
4.380	224	221	0.0106281
4.390	244	222	0.0098030
4.400	252	222	0.0094260
4.410	245	222	0.0096117
4.420	229	223	0.0104123
4.430	221	223	0.0106281
4.440	226	224	0.0104123
4.450	235	225	0.0102030
4.460	238	226	0.0100000
4.470	238	227	0.0100000
4.480	228	229	0.0104123
4.490	239	230	0.0100000
4.500	252	232	0.0094260
4.510	253	234	0.0094260
4.520	251	237	0.0094260
4.530	258	241	0.0092456
4.540	269	245	0.0089000
4.550	267	250	0.0089000
4.560	266	256	0.0089000

4.570	287	263	0.0082645
4.580	303	272	0.0078315
4.590	305	283	0.0076947
4.600	321	296	0.0074316
4.610	304	311	0.0078315
4.620	354	327	0.0067186
4.630	381	345	0.0062000
4.640	388	365	0.0061035
4.650	393	388	0.0060093
4.660	436	413	0.0054066
4.670	462	440	0.0051020
4.680	515	471	0.0045654
4.690	509	506	0.0046277
4.700	551	545	0.0042719
4.710	565	588	0.0041623
4.720	641	636	0.0036731
4.730	649	690	0.0036290
4.740	706	749	0.0033412
4.750	773	809	0.0030524
4.760	762	866	0.0031210
4.770	797	908	0.0029537
4.780	760	917	0.0031210
4.790	717	878	0.0033029
4.800	658	795	0.0035856
4.810	597	691	0.0039555
4.820	554	592	0.0042719
4.830	473	509	0.0050299
4.840	376	444	0.0062988
4.850	344	395	0.0068301
4.860	308	358	0.0076947
4.870	290	329	0.0081162
4.880	265	307	0.0089000
4.890	241	290	0.0098030
4.900	251	276	0.0094260
4.910	253	265	0.0094260
4.920	235	255	0.0100000
4.930	225	248	0.0104123
4.940	226	241	0.0104123
4.950	212	236	0.0110803
4.960	217	231	0.0108507
4.970	216	227	0.0110803
4.980	216	223	0.0108507
4.990	208	220	0.0113173
5.000	197	217	0.0120758
5.010	213	215	0.0110803
5.020	215	212	0.0110803
5.030	189	210	0.0126247
5.040	208	209	0.0113173
5.050	201	207	0.0118147
5.060	199	205	0.0118147
5.070	213	204	0.0110803
5.080	189	203	0.0126247
5.090	198	202	0.0120758
5.100	197	201	0.0120758

5.110	209	200	0.0113173
5.120	184	199	0.0129132
5.130	203	198	0.0118147
5.140	204	197	0.0115620
5.150	192	196	0.0123457
5.160	210	195	0.0113173
5.170	204	195	0.0115620
5.180	194	194	0.0123457
5.190	163	193	0.0145159
5.200	193	193	0.0123457
5.210	190	192	0.0123457
5.220	189	192	0.0126247
5.230	191	191	0.0123457
5.240	200	191	0.0118147
5.250	187	190	0.0126247
5.260	189	190	0.0126247
5.270	184	189	0.0129132
5.280	191	189	0.0123457
5.290	171	188	0.0138408
5.300	168	188	0.0141723
5.310	185	188	0.0129132
5.320	190	187	0.0126247
5.330	188	187	0.0126247
5.340	195	187	0.0120758
5.350	172	186	0.0138408
5.360	176	186	0.0135208
5.370	178	186	0.0132118
5.380	170	185	0.0138408
5.390	181	185	0.0132118
5.400	192	185	0.0123457
5.410	176	184	0.0135208
5.420	176	184	0.0135208
5.430	192	184	0.0123457
5.440	191	184	0.0123457
5.450	205	183	0.0115620
5.460	194	183	0.0123457
5.470	186	183	0.0129132
5.480	191	183	0.0123457
5.490	188	182	0.0126247
5.500	205	182	0.0115620
5.510	183	182	0.0129132
5.520	183	182	0.0129132
5.530	175	182	0.0135208
5.540	183	181	0.0129132
5.550	164	181	0.0145159
5.560	189	181	0.0126247
5.570	185	181	0.0129132
5.580	190	181	0.0126247
5.590	183	180	0.0129132
5.600	188	180	0.0126247
5.610	194	180	0.0123457
5.620	182	180	0.0129132
5.630	181	180	0.0132118
5.640	169	180	0.0141723

5.650	168	179	0.0141723
5.660	195	179	0.0120758
5.670	177	179	0.0135208
5.680	189	179	0.0126247
5.690	155	179	0.0152416
5.700	183	179	0.0129132
5.710	179	179	0.0132118
5.720	174	178	0.0135208
5.730	181	178	0.0132118
5.740	191	178	0.0126247
5.750	178	178	0.0132118
5.760	180	178	0.0132118
5.770	173	178	0.0138408
5.780	175	178	0.0135208
5.790	184	177	0.0129132
5.800	186	177	0.0129132
5.810	181	177	0.0132118
5.820	187	177	0.0126247
5.830	176	177	0.0135208
5.840	168	177	0.0141723
5.850	183	177	0.0129132
5.860	192	177	0.0123457
5.870	177	177	0.0135208
5.880	180	176	0.0132118
5.890	172	176	0.0138408
5.900	172	176	0.0138408
5.910	153	176	0.0156250
5.920	171	176	0.0138408
5.930	161	176	0.0148721
5.940	172	176	0.0138408
5.950	184	176	0.0129132
5.960	178	176	0.0135208
5.970	169	175	0.0141723
5.980	170	175	0.0138408
5.990	188	175	0.0126247
6.000	198	175	0.0120758
6.010	160	175	0.0148721
6.020	182	175	0.0129132
6.030	180	175	0.0132118
6.040	184	175	0.0129132
6.050	179	175	0.0132118
6.060	181	174	0.0132118
6.070	167	174	0.0141723
6.080	177	174	0.0135208
6.090	181	174	0.0132118
6.100	180	174	0.0132118
6.110	167	174	0.0141723
6.120	162	174	0.0145159
6.130	169	174	0.0141723
6.140	192	174	0.0123457
6.150	180	174	0.0132118
6.160	166	173	0.0141723
6.170	194	173	0.0123457
6.180	177	173	0.0132118

6.190	180	173	0.0132118
6.200	186	173	0.0126247
6.210	179	173	0.0132118
6.220	174	173	0.0135208
6.230	163	173	0.0145159
6.240	169	173	0.0141723
6.250	170	173	0.0138408
6.260	181	173	0.0132118
6.270	173	173	0.0135208
6.280	180	173	0.0132118
6.290	179	173	0.0132118
6.300	176	173	0.0135208
6.310	167	173	0.0141723
6.320	166	173	0.0141723
6.330	180	173	0.0132118
6.340	185	173	0.0129132
6.350	180	173	0.0132118
6.360	172	173	0.0138408
6.370	192	173	0.0123457
6.380	178	173	0.0132118
6.390	166	173	0.0141723
6.400	181	173	0.0132118
6.410	179	173	0.0132118
6.420	179	173	0.0132118
6.430	153	173	0.0152416
6.440	155	173	0.0152416
6.450	170	173	0.0138408
6.460	165	173	0.0141723
6.470	159	173	0.0148721
6.480	160	173	0.0148721
6.490	165	173	0.0141723
6.500	185	173	0.0126247
6.510	179	173	0.0132118
6.520	179	173	0.0132118
6.530	166	173	0.0141723
6.540	169	173	0.0138408
6.550	179	173	0.0132118
6.560	161	173	0.0145159
6.570	172	173	0.0138408
6.580	187	173	0.0126247
6.590	176	173	0.0135208
6.600	181	173	0.0129132
6.610	166	173	0.0141723
6.620	166	173	0.0141723
6.630	167	173	0.0141723
6.640	169	174	0.0138408
6.650	181	174	0.0129132
6.660	159	174	0.0148721
6.670	175	174	0.0135208
6.680	174	174	0.0135208
6.690	176	174	0.0132118
6.700	173	174	0.0135208
6.710	166	174	0.0141723
6.720	168	174	0.0138408

6.730	177	174	0.0132118
6.740	176	174	0.0132118
6.750	183	174	0.0129132
6.760	161	174	0.0145159
6.770	169	175	0.0138408
6.780	172	175	0.0135208
6.790	171	175	0.0138408
6.800	183	175	0.0129132
6.810	169	175	0.0138408
6.820	170	175	0.0138408
6.830	187	175	0.0126247
6.840	166	175	0.0141723
6.850	175	175	0.0135208
6.860	172	175	0.0138408
6.870	172	175	0.0138408
6.880	169	175	0.0138408
6.890	171	175	0.0138408
6.900	175	176	0.0135208
6.910	165	176	0.0141723
6.920	178	176	0.0132118
6.930	172	176	0.0135208
6.940	170	176	0.0138408
6.950	181	176	0.0129132
6.960	183	176	0.0129132
6.970	193	176	0.0120758
6.980	181	176	0.0129132
6.990	174	176	0.0135208
7.000	169	177	0.0138408
7.010	180	177	0.0132118
7.020	173	177	0.0135208
7.030	185	177	0.0126247
7.040	186	177	0.0126247
7.050	188	177	0.0126247
7.060	150	178	0.0156250
7.070	174	178	0.0135208
7.080	169	178	0.0138408
7.090	183	178	0.0129132
7.100	192	178	0.0123457
7.110	171	178	0.0138408
7.120	182	179	0.0129132
7.130	177	179	0.0132118
7.140	188	179	0.0126247
7.150	192	180	0.0123457
7.160	180	180	0.0129132
7.170	194	180	0.0120758
7.180	177	180	0.0132118
7.190	182	181	0.0129132
7.200	162	181	0.0145159
7.210	184	182	0.0126247
7.220	183	182	0.0129132
7.230	188	183	0.0126247
7.240	197	183	0.0120758
7.250	191	184	0.0123457
7.260	197	185	0.0118147

7.270	184	186	0.0126247
7.280	189	187	0.0123457
7.290	200	188	0.0118147
7.300	211	190	0.0110803
7.310	184	192	0.0129132
7.320	200	194	0.0118147
7.330	198	197	0.0118147
7.340	206	201	0.0113173
7.350	212	206	0.0110803
7.360	212	212	0.0110803
7.370	218	220	0.0108507
7.380	229	230	0.0102030
7.390	235	241	0.0100000
7.400	239	254	0.0098030
7.410	282	269	0.0084168
7.420	283	286	0.0082645
7.430	318	307	0.0074316
7.440	334	331	0.0070616
7.450	329	358	0.0071818
7.460	371	386	0.0062988
7.470	418	410	0.0056532
7.480	409	419	0.0057392
7.490	408	402	0.0057392
7.500	379	362	0.0062000
7.510	333	317	0.0070616
7.520	292	282	0.0081162
7.530	258	256	0.0090703
7.540	257	238	0.0090703
7.550	229	226	0.0102030
7.560	226	217	0.0104123
7.570	211	211	0.0110803
7.580	197	206	0.0118147
7.590	204	203	0.0115620
7.600	192	200	0.0123457
7.610	199	198	0.0118147
7.620	204	196	0.0115620
7.630	198	195	0.0118147
7.640	174	194	0.0135208
7.650	203	193	0.0115620
7.660	195	192	0.0120758
7.670	193	191	0.0120758
7.680	180	191	0.0129132
7.690	188	191	0.0126247
7.700	198	190	0.0118147
7.710	201	190	0.0115620
7.720	193	190	0.0120758
7.730	179	190	0.0132118
7.740	183	190	0.0129132
7.750	195	190	0.0120758
7.760	177	190	0.0132118
7.770	189	190	0.0123457
7.780	187	190	0.0126247
7.790	203	190	0.0115620
7.800	187	190	0.0126247

7.810	175	191	0.0135208
7.820	198	191	0.0118147
7.830	191	191	0.0123457
7.840	191	191	0.0123457
7.850	189	192	0.0123457
7.860	186	192	0.0126247
7.870	183	192	0.0129132
7.880	185	193	0.0126247
7.890	182	193	0.0129132
7.900	187	194	0.0126247
7.910	203	194	0.0115620
7.920	184	195	0.0126247
7.930	197	195	0.0118147
7.940	206	196	0.0113173
7.950	197	196	0.0118147
7.960	212	197	0.0110803
7.970	199	198	0.0118147
7.980	195	199	0.0120758
7.990	193	200	0.0120758
8.000	194	201	0.0120758
8.010	214	202	0.0108507
8.020	184	203	0.0126247
8.030	199	205	0.0118147
8.040	203	206	0.0115620
8.050	199	208	0.0118147
8.060	216	210	0.0108507
8.070	204	212	0.0115620
8.080	206	215	0.0113173
8.090	212	218	0.0110803
8.100	211	221	0.0110803
8.110	216	225	0.0108507
8.120	206	229	0.0113173
8.130	231	235	0.0102030
8.140	243	241	0.0096117
8.150	253	249	0.0092456
8.160	264	258	0.0089000
8.170	277	269	0.0084168
8.180	273	283	0.0085734
8.190	293	299	0.0079719
8.200	320	318	0.0073051
8.210	309	341	0.0075614
8.220	362	366	0.0064000
8.230	378	396	0.0062000
8.240	415	428	0.0056532
8.250	449	464	0.0051757
8.260	459	501	0.0051020
8.270	518	537	0.0045043
8.280	559	568	0.0041623
8.290	529	589	0.0044444
8.300	535	593	0.0043858
8.310	527	575	0.0044444
8.320	500	540	0.0046913
8.330	488	494	0.0047562
8.340	434	446	0.0054066

8.350	412	403	0.0056532
8.360	375	367	0.0062000
8.370	329	337	0.0070616
8.380	322	314	0.0073051
8.390	273	295	0.0085734
8.400	273	280	0.0085734
8.410	252	268	0.0092456
8.420	261	258	0.0089000
8.430	229	250	0.0102030
8.440	245	243	0.0096117
8.450	239	238	0.0098030
8.460	216	233	0.0108507
8.470	212	229	0.0110803
8.480	221	226	0.0106281
8.490	207	223	0.0113173
8.500	222	221	0.0104123
8.510	209	219	0.0110803
8.520	217	217	0.0108507
8.530	210	215	0.0110803
8.540	208	214	0.0110803
8.550	210	213	0.0110803
8.560	215	212	0.0108507
8.570	207	211	0.0113173
8.580	226	210	0.0104123
8.590	198	209	0.0118147
8.600	204	209	0.0113173
8.610	222	208	0.0104123
8.620	215	208	0.0108507
8.630	204	207	0.0113173
8.640	203	207	0.0115620
8.650	208	207	0.0110803
8.660	213	206	0.0108507
8.670	223	206	0.0104123
8.680	196	206	0.0118147
8.690	211	206	0.0110803
8.700	209	206	0.0110803
8.710	216	206	0.0108507
8.720	218	206	0.0106281
8.730	202	207	0.0115620
8.740	224	207	0.0104123
8.750	207	207	0.0113173
8.760	210	207	0.0110803
8.770	226	207	0.0102030
8.780	221	207	0.0106281
8.790	209	207	0.0110803
8.800	199	208	0.0115620
8.810	223	208	0.0104123
8.820	220	208	0.0106281
8.830	216	208	0.0108507
8.840	209	208	0.0110803
8.850	203	208	0.0113173
8.860	194	208	0.0118147
8.870	219	208	0.0106281
8.880	232	208	0.0100000

8.890	218	209	0.0106281
8.900	217	209	0.0106281
8.910	229	209	0.0102030
8.920	216	209	0.0108507
8.930	216	209	0.0108507
8.940	220	209	0.0106281
8.950	220	210	0.0106281
8.960	221	210	0.0104123
8.970	209	210	0.0110803
8.980	218	210	0.0106281
8.990	213	210	0.0108507
9.000	203	211	0.0115620
9.010	220	211	0.0106281
9.020	240	211	0.0096117
9.030	233	211	0.0100000
9.040	207	212	0.0113173
9.050	229	212	0.0102030
9.060	215	212	0.0108507
9.070	238	212	0.0098030
9.080	220	212	0.0106281
9.090	221	213	0.0104123
9.100	236	213	0.0098030
9.110	220	213	0.0106281
9.120	220	214	0.0106281
9.130	220	214	0.0106281
9.140	221	214	0.0104123
9.150	233	214	0.0100000
9.160	217	215	0.0106281
9.170	228	215	0.0102030
9.180	233	215	0.0100000
9.190	232	216	0.0100000
9.200	213	216	0.0108507
9.210	230	216	0.0100000
9.220	222	217	0.0104123
9.230	213	217	0.0108507
9.240	213	217	0.0108507
9.250	237	218	0.0098030
9.260	236	218	0.0098030
9.270	240	218	0.0096117
9.280	220	219	0.0106281
9.290	236	219	0.0098030
9.300	223	220	0.0104123
9.310	230	220	0.0102030
9.320	239	221	0.0098030
9.330	216	221	0.0106281
9.340	226	221	0.0102030
9.350	227	222	0.0102030
9.360	229	223	0.0102030
9.370	247	223	0.0094260
9.380	237	224	0.0098030
9.390	229	224	0.0102030
9.400	224	225	0.0104123
9.410	247	226	0.0094260
9.420	239	227	0.0098030

9.430	221	227	0.0106281
9.440	225	228	0.0104123
9.450	234	229	0.0100000
9.460	238	231	0.0098030
9.470	227	232	0.0102030
9.480	237	234	0.0098030
9.490	246	235	0.0094260
9.500	230	237	0.0102030
9.510	239	240	0.0098030
9.520	234	242	0.0100000
9.530	247	245	0.0094260
9.540	224	248	0.0104123
9.550	252	252	0.0092456
9.560	249	255	0.0094260
9.570	257	258	0.0090703
9.580	239	260	0.0098030
9.590	256	261	0.0090703
9.600	273	261	0.0085734
9.610	270	259	0.0085734
9.620	260	257	0.0089000
9.630	262	255	0.0089000
9.640	253	253	0.0092456
9.650	264	251	0.0087344
9.660	259	250	0.0090703
9.670	264	250	0.0089000
9.680	260	250	0.0089000
9.690	256	250	0.0090703
9.700	232	250	0.0100000
9.710	247	251	0.0094260
9.720	273	252	0.0085734
9.730	263	253	0.0089000
9.740	268	254	0.0087344
9.750	260	256	0.0089000
9.760	259	257	0.0090703
9.770	269	259	0.0085734
9.780	279	261	0.0084168
9.790	275	264	0.0084168
9.800	282	266	0.0082645
9.810	279	269	0.0084168
9.820	288	273	0.0081162
9.830	266	276	0.0087344
9.840	283	280	0.0082645
9.850	277	285	0.0084168
9.860	291	290	0.0079719
9.870	320	296	0.0073051
9.880	304	303	0.0076947
9.890	317	311	0.0073051
9.900	321	319	0.0071818
9.910	323	330	0.0071818
9.920	368	342	0.0062988
9.930	377	356	0.0062000
9.940	365	373	0.0064000
9.950	429	393	0.0054066
9.960	433	418	0.0054066

9.970	465	449	0.0050299
9.980	502	487	0.0046277
9.990	563	534	0.0041091
10.000	634	594	0.0100000
10.010	712	669	0.0055692
10.020	784	762	0.0050299
10.030	953	875	0.0041623
10.040	1037	1008	0.0038104
10.050	1195	1162	0.0033029
10.060	1376	1334	0.0028905
10.070	1519	1519	0.0026031
10.080	1692	1701	0.0023338
10.090	1781	1851	0.0022250
10.100	1851	1929	0.0021433
10.110	1806	1894	0.0021836
10.120	1694	1743	0.0023338
10.130	1504	1519	0.0026298
10.140	1313	1283	0.0030190
10.150	1079	1075	0.0036731
10.160	939	907	0.0042166
10.170	778	776	0.0051020
10.180	656	676	0.0060093
10.190	576	599	0.0068301
10.200	513	539	0.0076947
10.210	447	492	0.0089000
10.220	412	455	0.0096117
10.230	390	425	0.0100000
10.240	352	400	0.0110803
10.250	337	380	0.0118147
10.260	341	364	0.0115620
10.270	312	349	0.0126247
10.280	313	338	0.0126247
10.290	301	327	0.0132118
10.300	296	319	0.0132118
10.310	290	311	0.0135208
10.320	284	305	0.0138408
10.330	285	299	0.0138408
10.340	276	294	0.0141723
10.350	286	289	0.0138408
10.360	275	285	0.0141723
10.370	264	282	0.0148721
10.380	281	279	0.0138408
10.390	274	276	0.0141723
10.400	283	273	0.0138408
10.410	265	271	0.0148721
10.420	272	269	0.0145159
10.430	283	267	0.0138408
10.440	268	266	0.0145159
10.450	270	264	0.0145159
10.460	272	263	0.0145159
10.470	256	261	0.0152416
10.480	271	260	0.0145159
10.490	264	259	0.0148721
10.500	259	258	0.0152416

10.510	259	257	0.0152416
10.520	248	256	0.0156250
10.530	257	256	0.0152416
10.540	262	255	0.0148721
10.550	254	254	0.0152416
10.560	266	254	0.0145159
10.570	259	254	0.0152416
10.580	265	253	0.0148721
10.590	274	254	0.0141723
10.600	261	254	0.0148721
10.610	271	255	0.0145159
10.620	260	254	0.0148721
10.630	258	254	0.0152416
10.640	252	254	0.0156250
10.650	259	254	0.0152416
10.660	263	254	0.0148721
10.670	256	254	0.0152416
10.680	256	254	0.0152416
10.690	276	254	0.0141723
10.700	280	254	0.0138408
10.710	255	254	0.0152416
10.720	269	254	0.0145159
10.730	254	254	0.0152416
10.740	250	254	0.0156250
10.750	270	254	0.0145159
10.760	257	254	0.0152416
10.770	261	254	0.0148721
10.780	272	254	0.0145159
10.790	251	254	0.0156250
10.800	264	254	0.0148721
10.810	264	254	0.0148721
10.820	251	255	0.0156250
10.830	270	255	0.0145159
10.840	264	255	0.0148721
10.850	262	255	0.0148721
10.860	265	256	0.0148721
10.870	259	256	0.0148721
10.880	271	256	0.0145159
10.890	271	257	0.0145159
10.900	260	257	0.0148721
10.910	267	258	0.0145159
10.920	278	258	0.0141723
10.930	270	259	0.0145159
10.940	276	260	0.0141723
10.950	279	260	0.0141723
10.960	270	261	0.0145159
10.970	266	262	0.0148721
10.980	262	263	0.0148721
10.990	254	264	0.0152416
11.000	290	266	0.0135208
11.010	295	267	0.0132118
11.020	267	269	0.0145159
11.030	276	271	0.0141723
11.040	291	273	0.0135208

11.050	278	276	0.0141723
11.060	280	280	0.0138408
11.070	287	284	0.0135208
11.080	305	289	0.0129132
11.090	292	295	0.0132118
11.100	328	302	0.0118147
11.110	333	311	0.0118147
11.120	332	322	0.0118147
11.130	334	334	0.0115620
11.140	362	348	0.0108507
11.150	360	364	0.0108507
11.160	384	380	0.0102030
11.170	401	394	0.0098030
11.180	416	405	0.0094260
11.190	436	409	0.0089000
11.200	406	405	0.0096117
11.210	407	394	0.0096117
11.220	400	379	0.0098030
11.230	383	365	0.0102030
11.240	350	352	0.0110803
11.250	334	343	0.0115620
11.260	326	337	0.0120758
11.270	313	333	0.0123457
11.280	301	331	0.0129132
11.290	310	332	0.0126247
11.300	308	334	0.0126247
11.310	306	338	0.0126247
11.320	307	344	0.0126247
11.330	326	352	0.0118147
11.340	320	362	0.0120758
11.350	325	374	0.0120758
11.360	316	391	0.0123457
11.370	335	411	0.0115620
11.380	353	438	0.0110803
11.390	380	472	0.0102030
11.400	420	518	0.0092456
11.410	487	579	0.0079719
11.420	575	664	0.0067186
11.430	739	781	0.0052510
11.440	835	938	0.0046277
11.450	1057	1141	0.0036731
11.460	1327	1394	0.0029218
11.470	1659	1701	0.0023338
11.480	2103	2065	0.0018420
11.490	2663	2468	0.0014568
11.500	3326	2843	0.0011648
11.510	3826	3031	0.0010142
11.520	3420	2846	0.0011337
11.530	2598	2337	0.0014907
11.540	1720	1780	0.0022461
11.550	1182	1347	0.0032653
11.560	843	1048	0.0045654
11.570	666	847	0.0058272
11.580	566	709	0.0068301

11.590	471	612	0.0082645
11.600	452	541	0.0085734
11.610	379	489	0.0102030
11.620	372	448	0.0104123
11.630	341	417	0.0113173
11.640	337	393	0.0115620
11.650	308	373	0.0126247
11.660	315	357	0.0123457
11.670	298	343	0.0129132
11.680	297	332	0.0129132
11.690	299	322	0.0129132
11.700	290	314	0.0132118
11.710	299	307	0.0129132
11.720	281	301	0.0138408
11.730	283	296	0.0135208
11.740	294	291	0.0132118
11.750	282	287	0.0135208
11.760	285	284	0.0135208
11.770	285	280	0.0135208
11.780	272	277	0.0141723
11.790	268	275	0.0145159
11.800	278	273	0.0138408
11.810	276	270	0.0138408
11.820	268	268	0.0145159
11.830	250	267	0.0152416
11.840	259	265	0.0148721
11.850	271	264	0.0141723
11.860	271	262	0.0141723
11.870	258	261	0.0148721
11.880	276	260	0.0138408
11.890	261	259	0.0148721
11.900	276	258	0.0138408
11.910	259	257	0.0148721
11.920	269	256	0.0141723
11.930	265	255	0.0145159
11.940	269	255	0.0141723
11.950	271	254	0.0141723
11.960	258	253	0.0148721
11.970	255	253	0.0148721
11.980	270	252	0.0141723
11.990	255	252	0.0148721
12.000	259	251	0.0148721
12.010	259	251	0.0148721
12.020	260	250	0.0148721
12.030	253	250	0.0152416
12.040	262	250	0.0145159
12.050	268	249	0.0141723
12.060	264	249	0.0145159
12.070	257	249	0.0148721
12.080	246	249	0.0156250
12.090	273	249	0.0141723
12.100	254	250	0.0152416
12.110	258	252	0.0148721
12.120	262	252	0.0145159

12.130	248	252	0.0156250
12.140	264	252	0.0145159
12.150	265	252	0.0145159
12.160	245	252	0.0156250
12.170	262	252	0.0145159
12.180	259	252	0.0148721
12.190	279	252	0.0138408
12.200	262	253	0.0145159
12.210	268	253	0.0141723
12.220	258	254	0.0148721
12.230	257	255	0.0148721
12.240	258	256	0.0148721
12.250	259	256	0.0148721
12.260	270	257	0.0141723
12.270	266	258	0.0145159
12.280	278	258	0.0138408
12.290	262	259	0.0145159
12.300	276	260	0.0138408
12.310	262	262	0.0145159
12.320	274	263	0.0138408
12.330	269	265	0.0141723
12.340	262	267	0.0145159
12.350	278	269	0.0138408
12.360	267	272	0.0141723
12.370	273	276	0.0141723
12.380	289	280	0.0132118
12.390	284	286	0.0135208
12.400	289	293	0.0132118
12.410	308	301	0.0123457
12.420	319	312	0.0120758
12.430	329	325	0.0115620
12.440	335	338	0.0113173
12.450	362	354	0.0106281
12.460	394	370	0.0098030
12.470	412	381	0.0092456
12.480	422	384	0.0090703
12.490	410	378	0.0094260
12.500	422	366	0.0090703
12.510	384	354	0.0100000
12.520	368	344	0.0104123
12.530	331	339	0.0115620
12.540	355	338	0.0108507
12.550	336	340	0.0113173
12.560	340	346	0.0113173
12.570	351	354	0.0108507
12.580	379	365	0.0102030
12.590	373	380	0.0102030
12.600	398	398	0.0096117
12.610	425	421	0.0090703
12.620	446	447	0.0085734
12.630	471	479	0.0081162
12.640	531	515	0.0071818
12.650	564	556	0.0068301
12.660	577	598	0.0066098

12.670	639	640	0.0060093
12.680	694	677	0.0054870
12.690	704	705	0.0054066
12.700	730	717	0.0052510
12.710	730	711	0.0052510
12.720	704	686	0.0054066
12.730	676	648	0.0056532
12.740	648	603	0.0059172
12.750	616	556	0.0062000
12.760	555	512	0.0069444
12.770	528	473	0.0073051
12.780	484	439	0.0079719
12.790	428	410	0.0089000
12.800	406	386	0.0094260
12.810	373	367	0.0102030
12.820	366	350	0.0104123
12.830	337	336	0.0113173
12.840	335	324	0.0115620
12.850	317	315	0.0120758
12.860	304	306	0.0126247
12.870	301	299	0.0126247
12.880	295	293	0.0129132
12.890	288	287	0.0132118
12.900	299	283	0.0129132
12.910	294	279	0.0129132
12.920	284	275	0.0135208
12.930	277	272	0.0138408
12.940	288	269	0.0132118
12.950	285	267	0.0135208
12.960	290	265	0.0132118
12.970	294	264	0.0129132
12.980	281	263	0.0135208
12.990	272	262	0.0141723
13.000	266	261	0.0145159
13.010	266	260	0.0145159
13.020	275	259	0.0138408
13.030	270	258	0.0141723
13.040	262	257	0.0145159
13.050	275	256	0.0138408
13.060	256	256	0.0148721
13.070	280	255	0.0135208
13.080	249	255	0.0152416
13.090	264	255	0.0145159
13.100	274	254	0.0138408
13.110	263	254	0.0145159
13.120	266	254	0.0145159
13.130	266	254	0.0145159
13.140	261	254	0.0148721
13.150	255	254	0.0148721
13.160	278	254	0.0138408
13.170	266	254	0.0145159
13.180	263	254	0.0145159
13.190	257	254	0.0148721
13.200	255	255	0.0148721

13.210	255	255	0.0148721
13.220	267	255	0.0141723
13.230	266	256	0.0145159
13.240	283	256	0.0135208
13.250	277	257	0.0138408
13.260	270	257	0.0141723
13.270	271	258	0.0141723
13.280	272	259	0.0141723
13.290	280	259	0.0135208
13.300	272	260	0.0141723
13.310	287	261	0.0132118
13.320	275	262	0.0138408
13.330	261	263	0.0145159
13.340	277	264	0.0138408
13.350	278	265	0.0138408
13.360	278	266	0.0138408
13.370	285	268	0.0135208
13.380	278	269	0.0138408
13.390	298	271	0.0129132
13.400	288	272	0.0132118
13.410	300	274	0.0126247
13.420	292	276	0.0129132
13.430	302	278	0.0126247
13.440	294	280	0.0129132
13.450	297	282	0.0129132
13.460	297	284	0.0129132
13.470	284	287	0.0135208
13.480	286	289	0.0132118
13.490	309	292	0.0123457
13.500	298	295	0.0129132
13.510	310	299	0.0123457
13.520	305	302	0.0123457
13.530	303	306	0.0126247
13.540	321	310	0.0118147
13.550	323	315	0.0118147
13.560	318	319	0.0118147
13.570	324	324	0.0118147
13.580	321	330	0.0118147
13.590	343	336	0.0110803
13.600	343	342	0.0110803
13.610	324	349	0.0118147
13.620	365	356	0.0104123
13.630	355	365	0.0106281
13.640	342	374	0.0110803
13.650	388	383	0.0098030
13.660	372	394	0.0102030
13.670	391	406	0.0096117
13.680	382	419	0.0100000
13.690	399	434	0.0094260
13.700	418	450	0.0090703
13.710	460	468	0.0082645
13.720	452	488	0.0084168
13.730	476	511	0.0079719
13.740	472	537	0.0079719

13.750	514	566	0.0073051
13.760	545	599	0.0069444
13.770	577	637	0.0065036
13.780	613	682	0.0061035
13.790	670	733	0.0056532
13.800	747	793	0.0050299
13.810	804	864	0.0046913
13.820	886	948	0.0042719
13.830	1030	1048	0.0036731
13.840	1121	1168	0.0033802
13.850	1301	1313	0.0028905
13.860	1474	1489	0.0025508
13.870	1736	1701	0.0021633
13.880	2036	1955	0.0018420
13.890	2388	2255	0.0015747
13.900	2711	2598	0.0013923
13.910	3114	2975	0.0012056
13.920	3437	3367	0.0010964
13.930	3789	3738	0.0009951
13.940	4008	4037	0.0009409
13.950	4195	4207	0.0008964
13.960	4148	4204	0.0009072
13.970	4086	4022	0.0009239
13.980	3802	3698	0.0009889
13.990	3424	3302	0.0011037
14.000	3075	2897	0.0012226
14.010	2770	2524	0.0013616
14.020	2359	2204	0.0016000
14.030	2054	1938	0.0018263
14.040	1817	1725	0.0020661
14.050	1554	1555	0.0024267
14.060	1357	1424	0.0027701
14.070	1257	1325	0.0029861
14.080	1205	1255	0.0031210
14.090	1122	1209	0.0033412
14.100	1092	1188	0.0034602
14.110	1073	1193	0.0035013
14.120	1142	1224	0.0033029
14.130	1260	1288	0.0029861
14.140	1374	1391	0.0027412
14.150	1529	1541	0.0024752
14.160	1763	1744	0.0021433
14.170	2039	2001	0.0018579
14.180	2359	2307	0.0016000
14.190	2716	2639	0.0013923
14.200	2962	2948	0.0012755
14.210	3164	3148	0.0011973
14.220	3108	3146	0.0012140
14.230	2942	2919	0.0012847
14.240	2658	2557	0.0014240
14.250	2291	2188	0.0016525
14.260	1969	1884	0.0019237
14.270	1736	1663	0.0021836
14.280	1499	1514	0.0025252

14.290	1424	1425	0.0026570
14.300	1340	1382	0.0028293
14.310	1353	1378	0.0027995
14.320	1355	1408	0.0027995
14.330	1442	1470	0.0026298
14.340	1512	1560	0.0025000
14.350	1667	1676	0.0022676
14.360	1774	1814	0.0021236
14.370	1934	1967	0.0019579
14.380	2103	2123	0.0017955
14.390	2268	2265	0.0016660
14.400	2383	2373	0.0015873
14.410	2441	2427	0.0015500
14.420	2435	2412	0.0015500
14.430	2422	2325	0.0015623
14.440	2245	2181	0.0016797
14.450	2103	1999	0.0017955
14.460	1966	1803	0.0019237
14.470	1728	1611	0.0021836
14.480	1517	1434	0.0025000
14.490	1379	1278	0.0027412
14.500	1204	1142	0.0031210
14.510	1080	1027	0.0035013
14.520	971	928	0.0039063
14.530	852	845	0.0044444
14.540	769	774	0.0048902
14.550	666	714	0.0056532
14.560	620	663	0.0061035
14.570	546	619	0.0069444
14.580	525	580	0.0071818
14.590	485	547	0.0078315
14.600	449	519	0.0084168
14.610	424	493	0.0089000
14.620	389	471	0.0096117
14.630	408	452	0.0092456
14.640	363	434	0.0104123
14.650	369	419	0.0102030
14.660	356	405	0.0106281
14.670	322	393	0.0118147
14.680	320	383	0.0118147
14.690	327	373	0.0115620
14.700	327	365	0.0115620
14.710	322	357	0.0118147
14.720	303	350	0.0123457
14.730	311	345	0.0120758
14.740	296	340	0.0126247
14.750	301	335	0.0126247
14.760	297	332	0.0126247
14.770	289	329	0.0129132
14.780	296	327	0.0126247
14.790	298	326	0.0126247
14.800	301	326	0.0123457
14.810	298	327	0.0126247
14.820	298	329	0.0126247

14.830	312	332	0.0120758
14.840	323	336	0.0115620
14.850	337	343	0.0110803
14.860	343	351	0.0108507
14.870	354	362	0.0106281
14.880	368	377	0.0102030
14.890	419	395	0.0089000
14.900	427	420	0.0087344
14.910	499	453	0.0075614
14.920	526	496	0.0071818
14.930	629	555	0.0059172
14.940	730	635	0.0051020
14.950	830	743	0.0045043
14.960	999	883	0.0037638
14.970	1132	1057	0.0033029
14.980	1322	1262	0.0028293
14.990	1473	1479	0.0025508
15.000	1578	1665	0.0023795
15.010	1558	1752	0.0024029
15.020	1503	1678	0.0025000
15.030	1363	1465	0.0027412
15.040	1211	1204	0.0030864
15.050	1024	972	0.0036731
15.060	871	792	0.0042719
15.070	751	661	0.0049593
15.080	624	566	0.0060093
15.090	538	496	0.0069444
15.100	487	443	0.0076947
15.110	425	404	0.0087344
15.120	375	373	0.0100000
15.130	350	348	0.0106281
15.140	329	329	0.0113173
15.150	318	313	0.0118147
15.160	284	299	0.0132118
15.170	276	288	0.0135208
15.180	264	279	0.0141723
15.190	259	271	0.0145159
15.200	250	265	0.0148721
15.210	240	259	0.0156250
15.220	260	254	0.0141723
15.230	246	250	0.0152416
15.240	229	246	0.0164366
15.250	233	243	0.0160231
15.260	231	240	0.0160231
15.270	226	237	0.0164366
15.280	223	235	0.0168663
15.290	227	234	0.0164366
15.300	212	232	0.0177778
15.310	217	231	0.0173130
15.320	215	230	0.0173130
15.330	231	230	0.0160231
15.340	222	230	0.0168663
15.350	217	230	0.0173130
15.360	222	231	0.0168663

15.370	232	232	0.0160231
15.380	231	234	0.0160231
15.390	233	236	0.0160231
15.400	229	239	0.0164366
15.410	228	242	0.0164366
15.420	249	247	0.0148721
15.430	236	252	0.0156250
15.440	255	259	0.0145159
15.450	267	268	0.0138408
15.460	286	278	0.0129132
15.470	312	289	0.0118147
15.480	301	303	0.0123457
15.490	321	318	0.0115620
15.500	340	334	0.0108507
15.510	355	347	0.0104123
15.520	345	357	0.0108507
15.530	369	362	0.0102030
15.540	359	359	0.0104123
15.550	365	350	0.0102030
15.560	359	336	0.0104123
15.570	328	319	0.0113173
15.580	313	301	0.0118147
15.590	294	285	0.0126247
15.600	278	270	0.0135208
15.610	273	258	0.0135208
15.620	257	247	0.0145159
15.630	247	238	0.0152416
15.640	236	230	0.0156250
15.650	242	224	0.0156250
15.660	217	219	0.0173130
15.670	222	214	0.0168663
15.680	212	210	0.0177778
15.690	209	207	0.0177778
15.700	211	204	0.0177778
15.710	204	201	0.0182615
15.720	206	199	0.0182615
15.730	196	197	0.0187652
15.740	187	195	0.0198373
15.750	184	193	0.0204082
15.760	196	192	0.0187652
15.770	190	190	0.0192901
15.780	192	189	0.0192901
15.790	193	188	0.0192901
15.800	191	186	0.0192901
15.810	174	185	0.0216263
15.820	189	183	0.0198373
15.830	183	181	0.0204082
15.840	194	180	0.0192901
15.850	179	179	0.0210040
15.860	187	179	0.0198373
15.870	180	178	0.0204082
15.880	172	177	0.0216263
15.890	184	177	0.0204082
15.900	189	176	0.0198373

15.910	173	176	0.0216263
15.920	177	175	0.0210040
15.930	182	175	0.0204082
15.940	186	175	0.0198373
15.950	179	174	0.0210040
15.960	190	174	0.0192901
15.970	184	174	0.0204082
15.980	169	174	0.0216263
15.990	186	173	0.0198373
16.000	175	173	0.0210040
16.010	192	173	0.0192901
16.020	173	172	0.0216263
16.030	176	172	0.0210040
16.040	173	172	0.0216263
16.050	170	172	0.0216263
16.060	174	171	0.0210040
16.070	178	171	0.0210040
16.080	167	171	0.0222767
16.090	178	171	0.0210040
16.100	175	170	0.0210040
16.110	169	170	0.0216263
16.120	172	170	0.0216263
16.130	182	170	0.0204082
16.140	172	169	0.0216263
16.150	173	169	0.0216263
16.160	170	168	0.0216263
16.170	166	168	0.0222767
16.180	172	167	0.0216263
16.190	174	167	0.0210040
16.200	177	167	0.0210040
16.210	176	167	0.0210040
16.220	156	167	0.0236686
16.230	176	167	0.0210040
16.240	175	167	0.0210040
16.250	168	167	0.0216263
16.260	168	166	0.0216263
16.270	165	166	0.0222767
16.280	186	166	0.0198373
16.290	159	166	0.0229568
16.300	174	166	0.0210040
16.310	167	166	0.0222767
16.320	156	166	0.0236686
16.330	170	166	0.0216263
16.340	173	166	0.0210040
16.350	179	166	0.0204082
16.360	160	166	0.0229568
16.370	175	166	0.0210040
16.380	165	166	0.0222767
16.390	164	166	0.0222767
16.400	162	165	0.0229568
16.410	159	165	0.0229568
16.420	168	165	0.0216263
16.430	167	165	0.0216263
16.440	168	165	0.0216263

16.450	162	165	0.0229568
16.460	181	165	0.0204082
16.470	155	165	0.0236686
16.480	166	165	0.0222767
16.490	175	165	0.0210040
16.500	159	165	0.0229568
16.510	161	165	0.0229568
16.520	175	166	0.0210040
16.530	168	166	0.0216263
16.540	162	166	0.0222767
16.550	169	166	0.0216263
16.560	179	166	0.0204082
16.570	164	166	0.0222767
16.580	164	166	0.0222767
16.590	161	166	0.0229568
16.600	159	166	0.0229568
16.610	157	166	0.0236686
16.620	177	165	0.0204082
16.630	170	165	0.0216263
16.640	167	165	0.0216263
16.650	168	165	0.0216263
16.660	163	165	0.0222767
16.670	165	166	0.0222767
16.680	165	166	0.0222767
16.690	186	166	0.0198373
16.700	165	166	0.0222767
16.710	157	166	0.0229568
16.720	169	166	0.0216263
16.730	158	166	0.0229568
16.740	170	166	0.0216263
16.750	158	166	0.0229568
16.760	179	166	0.0204082
16.770	157	166	0.0236686
16.780	156	167	0.0236686
16.790	170	167	0.0216263
16.800	169	167	0.0216263
16.810	181	167	0.0204082
16.820	171	168	0.0216263
16.830	161	168	0.0229568
16.840	171	168	0.0216263
16.850	158	169	0.0229568
16.860	164	169	0.0222767
16.870	167	170	0.0216263
16.880	167	170	0.0216263
16.890	177	171	0.0204082
16.900	169	171	0.0216263
16.910	160	172	0.0229568
16.920	180	173	0.0204082
16.930	178	174	0.0204082
16.940	155	174	0.0236686
16.950	164	175	0.0222767
16.960	160	176	0.0229568
16.970	163	177	0.0222767
16.980	176	179	0.0210040

16.990	175	180	0.0210040
17.000	176	181	0.0210040
17.010	175	183	0.0210040
17.020	181	185	0.0204082
17.030	177	187	0.0204082
17.040	164	189	0.0222767
17.050	184	192	0.0198373
17.060	173	195	0.0210040
17.070	186	198	0.0198373
17.080	194	202	0.0187652
17.090	190	207	0.0192901
17.100	205	212	0.0177778
17.110	206	219	0.0177778
17.120	221	227	0.0164366
17.130	239	236	0.0152416
17.140	245	247	0.0148721
17.150	259	260	0.0141723
17.160	260	273	0.0141723
17.170	293	286	0.0126247
17.180	287	296	0.0126247
17.190	298	303	0.0123457
17.200	289	306	0.0126247
17.210	303	307	0.0120758
17.220	294	310	0.0123457
17.230	329	315	0.0110803
17.240	321	324	0.0113173
17.250	345	337	0.0106281
17.260	356	354	0.0102030
17.270	389	374	0.0094260
17.280	393	398	0.0092456
17.290	434	425	0.0084168
17.300	482	454	0.0075614
17.310	517	484	0.0070616
17.320	532	512	0.0069444
17.330	553	536	0.0066098
17.340	576	552	0.0064000
17.350	600	558	0.0061035
17.360	590	552	0.0062000
17.370	589	537	0.0062000
17.380	568	514	0.0065036
17.390	566	486	0.0065036
17.400	527	456	0.0069444
17.410	471	427	0.0078315
17.420	452	400	0.0081162
17.430	419	376	0.0087344
17.440	381	356	0.0096117
17.450	371	339	0.0098030
17.460	361	325	0.0102030
17.470	343	314	0.0106281
17.480	330	306	0.0110803
17.490	315	300	0.0115620
17.500	299	297	0.0123457
17.510	311	295	0.0118147
17.520	297	296	0.0123457

17.530	312	300	0.0118147
17.540	318	305	0.0115620
17.550	334	314	0.0110803
17.560	343	325	0.0106281
17.570	330	339	0.0110803
17.580	348	356	0.0106281
17.590	373	375	0.0098030
17.600	394	395	0.0092456
17.610	413	415	0.0089000
17.620	419	433	0.0087344
17.630	417	446	0.0087344
17.640	455	451	0.0081162
17.650	423	447	0.0087344
17.660	413	435	0.0089000
17.670	421	415	0.0087344
17.680	388	392	0.0094260
17.690	368	367	0.0100000
17.700	340	343	0.0108507
17.710	317	321	0.0115620
17.720	308	302	0.0118147
17.730	278	285	0.0132118
17.740	260	270	0.0141723
17.750	250	258	0.0145159
17.760	243	247	0.0152416
17.770	218	238	0.0168663
17.780	227	231	0.0160231
17.790	210	224	0.0173130
17.800	212	219	0.0173130
17.810	205	214	0.0177778
17.820	182	210	0.0198373
17.830	192	206	0.0187652
17.840	186	203	0.0198373
17.850	181	201	0.0204082
17.860	190	198	0.0192901
17.870	189	196	0.0192901
17.880	191	195	0.0192901
17.890	184	193	0.0198373
17.900	188	192	0.0192901
17.910	180	191	0.0204082
17.920	185	191	0.0198373
17.930	182	190	0.0198373
17.940	177	190	0.0204082
17.950	186	190	0.0192901
17.960	189	190	0.0192901
17.970	205	190	0.0177778
17.980	183	191	0.0198373
17.990	190	191	0.0192901
18.000	199	192	0.0182615
18.010	196	193	0.0187652
18.020	191	194	0.0187652
18.030	196	196	0.0187652
18.040	192	197	0.0187652
18.050	186	199	0.0198373
18.060	223	202	0.0164366

18.070	213	205	0.0168663
18.080	232	208	0.0156250
18.090	211	212	0.0173130
18.100	233	216	0.0156250
18.110	221	221	0.0164366
18.120	234	227	0.0156250
18.130	243	233	0.0148721
18.140	247	241	0.0145159
18.150	271	250	0.0135208
18.160	264	261	0.0138408
18.170	287	274	0.0126247
18.180	305	288	0.0118147
18.190	333	306	0.0108507
18.200	368	326	0.0098030
18.210	378	349	0.0096117
18.220	439	376	0.0082645
18.230	474	407	0.0075614
18.240	503	440	0.0071818
18.250	546	475	0.0066098
18.260	570	509	0.0062988
18.270	581	540	0.0062000
18.280	607	562	0.0059172
18.290	611	574	0.0059172
18.300	595	572	0.0061035
18.310	593	557	0.0061035
18.320	561	531	0.0064000
18.330	521	498	0.0069444
18.340	510	463	0.0070616
18.350	470	428	0.0076947
18.360	422	396	0.0085734
18.370	384	367	0.0094260
18.380	370	343	0.0098030
18.390	337	321	0.0106281
18.400	339	303	0.0106281
18.410	290	289	0.0123457
18.420	283	277	0.0126247
18.430	281	267	0.0129132
18.440	275	260	0.0132118
18.450	284	255	0.0126247
18.460	252	252	0.0141723
18.470	256	249	0.0141723
18.480	260	246	0.0138408
18.490	232	243	0.0156250
18.500	227	238	0.0156250
18.510	229	232	0.0156250
18.520	217	225	0.0164366
18.530	207	217	0.0173130
18.540	192	210	0.0187652
18.550	191	204	0.0187652
18.560	192	199	0.0187652
18.570	188	194	0.0192901
18.580	182	190	0.0198373
18.590	179	187	0.0198373
18.600	169	184	0.0210040

18.610	165	182	0.0216263
18.620	166	180	0.0216263
18.630	167	178	0.0216263
18.640	162	176	0.0222767
18.650	164	174	0.0216263
18.660	169	173	0.0210040
18.670	173	172	0.0204082
18.680	161	171	0.0222767
18.690	169	170	0.0210040
18.700	162	169	0.0222767
18.710	170	168	0.0210040
18.720	160	167	0.0222767
18.730	170	167	0.0210040
18.740	168	166	0.0216263
18.750	166	165	0.0216263
18.760	159	165	0.0222767
18.770	172	164	0.0210040
18.780	163	164	0.0222767
18.790	151	163	0.0236686
18.800	152	163	0.0236686
18.810	172	162	0.0210040
18.820	151	162	0.0236686
18.830	165	162	0.0216263
18.840	162	161	0.0222767
18.850	160	161	0.0222767
18.860	167	161	0.0216263
18.870	157	161	0.0229568
18.880	167	160	0.0216263
18.890	169	160	0.0210040
18.900	168	160	0.0216263
18.910	163	160	0.0222767
18.920	158	160	0.0229568
18.930	151	159	0.0236686
18.940	148	159	0.0244141
18.950	159	159	0.0222767
18.960	154	159	0.0229568
18.970	159	159	0.0222767
18.980	160	159	0.0222767
18.990	159	159	0.0229568
19.000	165	159	0.0216263
19.010	147	159	0.0244141
19.020	159	159	0.0222767
19.030	166	159	0.0216263
19.040	155	159	0.0229568
19.050	175	159	0.0204082
19.060	152	159	0.0236686
19.070	148	159	0.0244141
19.080	157	159	0.0229568
19.090	164	159	0.0222767
19.100	161	159	0.0222767
19.110	158	160	0.0229568
19.120	161	160	0.0222767
19.130	164	160	0.0216263
19.140	171	161	0.0210040

19.150	169	161	0.0210040
19.160	161	162	0.0222767
19.170	167	163	0.0216263
19.180	172	164	0.0210040
19.190	181	165	0.0198373
19.200	181	166	0.0198373
19.210	180	167	0.0198373
19.220	176	169	0.0204082
19.230	175	169	0.0204082
19.240	185	170	0.0192901
19.250	170	169	0.0210040
19.260	180	168	0.0198373
19.270	173	167	0.0210040
19.280	164	166	0.0216263
19.290	178	166	0.0204082
19.300	169	165	0.0210040
19.310	170	164	0.0210040
19.320	189	163	0.0187652
19.330	163	163	0.0216263
19.340	165	162	0.0216263
19.350	169	162	0.0210040
19.360	152	162	0.0236686
19.370	160	161	0.0222767
19.380	169	161	0.0210040
19.390	173	161	0.0204082
19.400	162	161	0.0222767
19.410	169	161	0.0210040
19.420	169	161	0.0210040
19.430	157	161	0.0229568
19.440	162	161	0.0222767
19.450	162	161	0.0222767
19.460	158	161	0.0222767
19.470	151	161	0.0236686
19.480	173	161	0.0204082
19.490	166	162	0.0216263
19.500	163	162	0.0222767
19.510	161	162	0.0222767
19.520	171	162	0.0210040
19.530	158	163	0.0229568
19.540	170	163	0.0210040
19.550	160	163	0.0222767
19.560	171	164	0.0210040
19.570	164	164	0.0216263
19.580	166	164	0.0216263
19.590	167	165	0.0216263
19.600	163	165	0.0216263
19.610	166	166	0.0216263
19.620	164	167	0.0216263
19.630	167	167	0.0216263
19.640	162	168	0.0216263
19.650	161	169	0.0222767
19.660	170	170	0.0210040
19.670	165	171	0.0216263
19.680	175	172	0.0204082

19.690	174	174	0.0204082
19.700	176	175	0.0204082
19.710	179	177	0.0198373
19.720	183	180	0.0192901
19.730	185	182	0.0192901
19.740	181	186	0.0198373
19.750	190	190	0.0187652
19.760	184	195	0.0192901
19.770	197	202	0.0182615
19.780	219	209	0.0160231
19.790	215	219	0.0164366
19.800	230	230	0.0156250
19.810	233	241	0.0152416
19.820	250	251	0.0141723
19.830	252	257	0.0141723
19.840	270	256	0.0132118
19.850	248	251	0.0141723
19.860	251	242	0.0141723
19.870	232	233	0.0152416
19.880	217	224	0.0164366
19.890	213	218	0.0164366
19.900	212	213	0.0168663
19.910	207	210	0.0173130
19.920	197	208	0.0177778
19.930	207	207	0.0173130
19.940	214	207	0.0164366
19.950	195	207	0.0182615
19.960	207	209	0.0173130
19.970	216	211	0.0164366
19.980	210	213	0.0168663
19.990	211	216	0.0168663
20.000	209	220	0.0434028
20.010	218	225	0.0251953
20.020	234	230	0.0229568
20.030	225	236	0.0236686
20.040	244	243	0.0222767
20.050	248	250	0.0216263
20.060	256	259	0.0210040
20.070	252	269	0.0216263
20.080	286	279	0.0187652
20.090	278	291	0.0192901
20.100	307	303	0.0177778
20.110	285	316	0.0187652
20.120	315	328	0.0173130
20.130	313	340	0.0173130
20.140	347	352	0.0156250
20.150	351	365	0.0152416
20.160	371	380	0.0145159
20.170	392	398	0.0138408
20.180	418	420	0.0129132
20.190	448	448	0.0120758
20.200	468	482	0.0115620
20.210	528	525	0.0102030
20.220	565	577	0.0096117

20.230	660	642	0.0082645
20.240	749	720	0.0071818
20.250	817	813	0.0066098
20.260	930	918	0.0058272
20.270	1043	1033	0.0051757
20.280	1076	1146	0.0050299
20.290	1137	1242	0.0047562
20.300	1198	1304	0.0045043
20.310	1199	1316	0.0045043
20.320	1178	1274	0.0045654
20.330	1115	1188	0.0048225
20.340	1049	1076	0.0051757
20.350	1015	956	0.0053279
20.360	923	842	0.0058272
20.370	818	740	0.0066098
20.380	701	654	0.0076947
20.390	668	582	0.0081162
20.400	595	522	0.0090703
20.410	529	473	0.0102030
20.420	471	432	0.0115620
20.430	454	399	0.0118147
20.440	389	370	0.0138408
20.450	380	347	0.0141723
20.460	349	327	0.0156250
20.470	302	310	0.0177778
20.480	296	296	0.0182615
20.490	292	283	0.0182615
20.500	273	273	0.0198373
20.510	265	263	0.0204082
20.520	242	255	0.0222767
20.530	240	248	0.0222767
20.540	238	242	0.0222767
20.550	224	237	0.0244141
20.560	215	232	0.0251953
20.570	225	228	0.0236686
20.580	216	224	0.0251953
20.590	196	221	0.0277778
20.600	202	218	0.0268745
20.610	199	216	0.0268745
20.620	199	214	0.0268745
20.630	202	212	0.0268745
20.640	211	211	0.0251953
20.650	195	209	0.0277778
20.660	204	209	0.0260146
20.670	208	208	0.0260146
20.680	190	208	0.0277778
20.690	201	208	0.0268745
20.700	195	208	0.0277778
20.710	197	209	0.0268745
20.720	193	210	0.0277778
20.730	192	211	0.0277778
20.740	199	213	0.0268745
20.750	207	215	0.0260146
20.760	199	218	0.0268745

20.770	213	222	0.0251953
20.780	226	227	0.0236686
20.790	221	232	0.0244141
20.800	242	239	0.0222767
20.810	243	246	0.0216263
20.820	258	256	0.0204082
20.830	251	266	0.0210040
20.840	279	278	0.0192901
20.850	285	289	0.0187652
20.860	293	300	0.0182615
20.870	307	308	0.0173130
20.880	305	313	0.0173130
20.890	326	315	0.0164366
20.900	326	313	0.0164366
20.910	330	309	0.0160231
20.920	331	306	0.0160231
20.930	328	303	0.0160231
20.940	340	302	0.0156250
20.950	342	303	0.0156250
20.960	336	306	0.0156250
20.970	349	310	0.0152416
20.980	319	315	0.0164366
20.990	353	319	0.0148721
21.000	365	322	0.0145159
21.010	352	324	0.0152416
21.020	358	323	0.0148721
21.030	327	319	0.0160231
21.040	340	313	0.0156250
21.050	317	306	0.0168663
21.060	294	297	0.0182615
21.070	303	288	0.0173130
21.080	286	279	0.0187652
21.090	277	270	0.0192901
21.100	278	263	0.0192901
21.110	268	256	0.0198373
21.120	242	250	0.0216263
21.130	257	245	0.0204082
21.140	250	241	0.0210040
21.150	239	238	0.0222767
21.160	221	235	0.0236686
21.170	224	233	0.0236686
21.180	228	231	0.0236686
21.190	224	230	0.0236686
21.200	217	230	0.0244141
21.210	225	230	0.0236686
21.220	222	231	0.0236686
21.230	217	232	0.0244141
21.240	218	233	0.0244141
21.250	230	235	0.0229568
21.260	222	238	0.0236686
21.270	215	241	0.0244141
21.280	227	244	0.0236686
21.290	221	248	0.0236686
21.300	230	253	0.0229568

21.310	233	259	0.0229568
21.320	241	266	0.0222767
21.330	250	273	0.0210040
21.340	264	282	0.0198373
21.350	262	293	0.0204082
21.360	271	305	0.0198373
21.370	292	319	0.0182615
21.380	300	336	0.0177778
21.390	312	356	0.0168663
21.400	344	380	0.0156250
21.410	388	409	0.0138408
21.420	408	444	0.0132118
21.430	478	488	0.0110803
21.440	520	543	0.0102030
21.450	632	612	0.0084168
21.460	736	701	0.0071818
21.470	822	814	0.0065036
21.480	1011	960	0.0052510
21.490	1193	1143	0.0044444
21.500	1418	1365	0.0037638
21.510	1610	1615	0.0033029
21.520	1750	1862	0.0030524
21.530	1828	2050	0.0029218
21.540	1893	2116	0.0028293
21.550	1830	2031	0.0029218
21.560	1709	1824	0.0031210
21.570	1571	1567	0.0033802
21.580	1344	1319	0.0039555
21.590	1196	1109	0.0044444
21.600	1044	943	0.0051020
21.610	918	816	0.0058272
21.620	805	719	0.0066098
21.630	723	646	0.0073051
21.640	655	592	0.0081162
21.650	592	551	0.0089000
21.660	539	522	0.0098030
21.670	519	502	0.0102030
21.680	493	490	0.0108507
21.690	479	484	0.0110803
21.700	482	483	0.0110803
21.710	497	489	0.0106281
21.720	493	499	0.0108507
21.730	506	515	0.0104123
21.740	548	534	0.0096117
21.750	569	557	0.0092456
21.760	585	582	0.0090703
21.770	601	608	0.0089000
21.780	633	631	0.0084168
21.790	646	650	0.0082645
21.800	654	660	0.0081162
21.810	653	661	0.0081162
21.820	648	651	0.0081162
21.830	621	632	0.0085734
21.840	608	605	0.0087344

21.850	577	574	0.0092456
21.860	552	540	0.0096117
21.870	519	507	0.0102030
21.880	497	476	0.0106281
21.890	475	448	0.0110803
21.900	430	423	0.0123457
21.910	399	401	0.0132118
21.920	389	382	0.0135208
21.930	394	367	0.0135208
21.940	357	353	0.0148721
21.950	340	343	0.0156250
21.960	325	334	0.0160231
21.970	317	328	0.0164366
21.980	326	323	0.0160231
21.990	321	321	0.0164366
22.000	326	320	0.0160231
22.010	340	321	0.0156250
22.020	327	323	0.0160231
22.030	326	327	0.0160231
22.040	341	333	0.0152416
22.050	355	339	0.0148721
22.060	357	347	0.0148721
22.070	369	354	0.0141723
22.080	363	360	0.0145159
22.090	377	365	0.0138408
22.100	384	368	0.0135208
22.110	389	368	0.0135208
22.120	388	364	0.0135208
22.130	381	358	0.0138408
22.140	371	348	0.0141723
22.150	358	338	0.0145159
22.160	345	327	0.0152416
22.170	346	314	0.0152416
22.180	333	303	0.0156250
22.190	316	292	0.0164366
22.200	307	282	0.0168663
22.210	290	273	0.0182615
22.220	285	265	0.0182615
22.230	269	257	0.0192901
22.240	270	251	0.0192901
22.250	247	246	0.0210040
22.260	249	241	0.0210040
22.270	247	237	0.0210040
22.280	242	234	0.0216263
22.290	238	232	0.0222767
22.300	240	230	0.0216263
22.310	235	229	0.0222767
22.320	226	229	0.0229568
22.330	222	229	0.0236686
22.340	223	230	0.0236686
22.350	226	231	0.0229568
22.360	231	233	0.0229568
22.370	220	236	0.0236686
22.380	233	240	0.0222767

22.390	225	244	0.0229568
22.400	249	251	0.0210040
22.410	250	258	0.0210040
22.420	253	267	0.0204082
22.430	260	278	0.0198373
22.440	284	291	0.0182615
22.450	282	306	0.0182615
22.460	303	322	0.0173130
22.470	328	340	0.0160231
22.480	347	356	0.0148721
22.490	344	371	0.0152416
22.500	361	381	0.0145159
22.510	357	385	0.0145159
22.520	363	383	0.0145159
22.530	353	376	0.0148721
22.540	361	365	0.0145159
22.550	337	354	0.0156250
22.560	347	345	0.0148721
22.570	336	339	0.0156250
22.580	347	336	0.0148721
22.590	313	336	0.0168663
22.600	310	334	0.0168663
22.610	298	328	0.0173130
22.620	299	315	0.0173130
22.630	293	298	0.0177778
22.640	278	281	0.0187652
22.650	267	265	0.0192901
22.660	272	253	0.0192901
22.670	247	243	0.0210040
22.680	239	236	0.0216263
22.690	223	231	0.0236686
22.700	241	227	0.0216263
22.710	219	225	0.0236686
22.720	230	223	0.0229568
22.730	222	223	0.0236686
22.740	221	223	0.0236686
22.750	207	224	0.0251953
22.760	230	225	0.0229568
22.770	223	227	0.0236686
22.780	235	230	0.0222767
22.790	239	234	0.0216263
22.800	239	238	0.0216263
22.810	252	243	0.0204082
22.820	246	248	0.0210040
22.830	248	252	0.0210040
22.840	249	257	0.0210040
22.850	250	260	0.0210040
22.860	258	262	0.0204082
22.870	246	263	0.0210040
22.880	263	262	0.0198373
22.890	252	259	0.0204082
22.900	237	256	0.0216263
22.910	253	253	0.0204082
22.920	252	249	0.0204082

22.930	237	246	0.0222767
22.940	227	243	0.0229568
22.950	226	241	0.0229568
22.960	225	240	0.0229568
22.970	241	239	0.0216263
22.980	234	240	0.0222767
22.990	218	242	0.0236686
23.000	241	244	0.0216263
23.010	244	249	0.0210040
23.020	225	256	0.0229568
23.030	241	266	0.0216263
23.040	268	278	0.0192901
23.050	282	294	0.0182615
23.060	287	316	0.0182615
23.070	303	345	0.0168663
23.080	361	384	0.0141723
23.090	432	439	0.0120758
23.100	534	515	0.0096117
23.110	635	625	0.0081162
23.120	808	777	0.0064000
23.130	1042	979	0.0049593
23.140	1206	1212	0.0042719
23.150	1316	1419	0.0039555
23.160	1332	1495	0.0039063
23.170	1242	1378	0.0041623
23.180	1081	1135	0.0047562
23.190	902	890	0.0057392
23.200	740	700	0.0069444
23.210	651	565	0.0079719
23.220	516	471	0.0100000
23.230	446	405	0.0115620
23.240	386	358	0.0135208
23.250	343	323	0.0148721
23.260	295	297	0.0173130
23.270	278	277	0.0187652
23.280	272	261	0.0187652
23.290	246	248	0.0210040
23.300	237	238	0.0216263
23.310	228	230	0.0222767
23.320	215	223	0.0236686
23.330	219	218	0.0236686
23.340	209	213	0.0244141
23.350	195	209	0.0268745
23.360	206	206	0.0251953
23.370	203	203	0.0251953
23.380	197	200	0.0260146
23.390	195	198	0.0260146
23.400	209	196	0.0244141
23.410	193	195	0.0268745
23.420	187	194	0.0277778
23.430	189	193	0.0268745
23.440	194	192	0.0268745
23.450	196	191	0.0260146
23.460	183	191	0.0277778

23.470	185	190	0.0277778
23.480	195	190	0.0260146
23.490	203	190	0.0251953
23.500	184	191	0.0277778
23.510	198	191	0.0260146
23.520	189	191	0.0268745
23.530	181	192	0.0287274
23.540	192	193	0.0268745
23.550	190	195	0.0268745
23.560	192	197	0.0268745
23.570	187	199	0.0277778
23.580	207	202	0.0244141
23.590	206	206	0.0251953
23.600	221	211	0.0229568
23.610	228	217	0.0222767
23.620	234	225	0.0216263
23.630	245	235	0.0210040
23.640	267	246	0.0192901
23.650	268	256	0.0192901
23.660	275	262	0.0187652
23.670	276	263	0.0187652
23.680	269	257	0.0187652
23.690	245	249	0.0210040
23.700	257	240	0.0198373
23.710	245	233	0.0210040
23.720	231	228	0.0222767
23.730	226	225	0.0222767
23.740	232	223	0.0222767
23.750	221	222	0.0229568
23.760	218	223	0.0236686
23.770	223	224	0.0229568
23.780	218	226	0.0236686
23.790	218	229	0.0236686
23.800	216	232	0.0236686
23.810	225	236	0.0229568
23.820	240	241	0.0210040
23.830	251	246	0.0204082
23.840	231	253	0.0222767
23.850	245	260	0.0210040
23.860	284	269	0.0177778
23.870	275	278	0.0187652
23.880	286	290	0.0177778
23.890	310	303	0.0164366
23.900	343	319	0.0148721
23.910	359	337	0.0141723
23.920	384	358	0.0132118
23.930	406	382	0.0126247
23.940	435	411	0.0118147
23.950	484	444	0.0106281
23.960	527	481	0.0096117
23.970	581	524	0.0087344
23.980	608	570	0.0084168
23.990	662	619	0.0076947
24.000	686	667	0.0074316

24.010	733	710	0.0069444
24.020	722	744	0.0070616
24.030	741	763	0.0068301
24.040	734	765	0.0069444
24.050	732	751	0.0069444
24.060	722	725	0.0070616
24.070	701	691	0.0073051
24.080	660	654	0.0076947
24.090	642	620	0.0079719
24.100	605	590	0.0084168
24.110	584	563	0.0087344
24.120	570	538	0.0089000
24.130	523	512	0.0098030
24.140	490	483	0.0104123
24.150	469	452	0.0108507
24.160	443	422	0.0115620
24.170	416	395	0.0123457
24.180	386	371	0.0132118
24.190	359	349	0.0141723
24.200	350	331	0.0145159
24.210	308	315	0.0164366
24.220	302	301	0.0168663
24.230	298	289	0.0173130
24.240	284	278	0.0182615
24.250	272	269	0.0187652
24.260	267	261	0.0192901
24.270	251	254	0.0204082
24.280	237	247	0.0216263
24.290	234	242	0.0216263
24.300	241	237	0.0210040
24.310	227	233	0.0222767
24.320	222	230	0.0229568
24.330	213	227	0.0236686
24.340	214	224	0.0236686
24.350	214	222	0.0236686
24.360	221	220	0.0229568
24.370	207	219	0.0244141
24.380	206	218	0.0244141
24.390	217	218	0.0236686
24.400	217	218	0.0236686
24.410	217	218	0.0236686
24.420	212	219	0.0244141
24.430	221	221	0.0229568
24.440	231	223	0.0222767
24.450	230	225	0.0222767
24.460	237	229	0.0216263
24.470	237	233	0.0216263
24.480	254	238	0.0198373
24.490	264	245	0.0192901
24.500	270	254	0.0187652
24.510	282	265	0.0182615
24.520	302	279	0.0168663
24.530	339	296	0.0152416
24.540	365	319	0.0138408

24.550	388	347	0.0132118
24.560	415	384	0.0123457
24.570	447	429	0.0113173
24.580	495	481	0.0102030
24.590	510	536	0.0100000
24.600	535	584	0.0096117
24.610	530	613	0.0096117
24.620	508	613	0.0100000
24.630	512	582	0.0100000
24.640	479	533	0.0106281
24.650	454	478	0.0113173
24.660	433	427	0.0118147
24.670	399	383	0.0126247
24.680	362	347	0.0141723
24.690	352	319	0.0145159
24.700	325	297	0.0156250
24.710	296	279	0.0173130
24.720	288	266	0.0177778
24.730	280	255	0.0182615
24.740	256	247	0.0198373
24.750	247	241	0.0204082
24.760	240	236	0.0210040
24.770	241	233	0.0210040
24.780	238	231	0.0210040
24.790	233	229	0.0216263
24.800	232	228	0.0216263
24.810	225	228	0.0222767
24.820	225	228	0.0222767
24.830	241	228	0.0210040
24.840	227	228	0.0222767
24.850	227	228	0.0222767
24.860	236	228	0.0216263
24.870	233	228	0.0216263
24.880	229	228	0.0222767
24.890	231	228	0.0216263
24.900	235	228	0.0216263
24.910	241	229	0.0210040
24.920	239	230	0.0210040
24.930	244	232	0.0204082
24.940	249	235	0.0204082
24.950	242	238	0.0210040
24.960	255	241	0.0198373
24.970	265	244	0.0187652
24.980	257	247	0.0192901
24.990	250	249	0.0204082
25.000	254	250	0.0198373
25.010	252	250	0.0198373
25.020	251	249	0.0198373
25.030	251	246	0.0198373
25.040	249	243	0.0204082
25.050	246	239	0.0204082
25.060	241	236	0.0210040
25.070	251	233	0.0198373
25.080	239	231	0.0210040

25.090	244	228	0.0204082
25.100	226	226	0.0222767
25.110	232	225	0.0216263
25.120	230	223	0.0216263
25.130	228	220	0.0216263
25.140	218	218	0.0229568
25.150	217	216	0.0229568
25.160	218	214	0.0229568
25.170	214	211	0.0229568
25.180	204	209	0.0244141
25.190	200	207	0.0251953
25.200	195	205	0.0251953
25.210	199	204	0.0251953
25.220	194	203	0.0260146
25.230	192	202	0.0260146
25.240	202	201	0.0244141
25.250	187	200	0.0268745
25.260	190	200	0.0260146
25.270	204	200	0.0244141
25.280	195	200	0.0251953
25.290	203	200	0.0244141
25.300	202	200	0.0244141
25.310	190	201	0.0260146
25.320	185	202	0.0268745
25.330	203	203	0.0244141
25.340	198	204	0.0251953
25.350	195	206	0.0251953
25.360	199	207	0.0251953
25.370	213	209	0.0236686
25.380	206	212	0.0244141
25.390	208	214	0.0236686
25.400	203	217	0.0244141
25.410	229	221	0.0216263
25.420	220	224	0.0222767
25.430	224	229	0.0222767
25.440	227	233	0.0216263
25.450	239	239	0.0210040
25.460	243	245	0.0204082
25.470	253	252	0.0198373
25.480	265	259	0.0187652
25.490	269	267	0.0182615
25.500	289	277	0.0173130
25.510	294	286	0.0168663
25.520	307	297	0.0160231
25.530	322	308	0.0156250
25.540	340	319	0.0145159
25.550	331	329	0.0148721
25.560	337	338	0.0148721
25.570	336	345	0.0148721
25.580	344	351	0.0145159
25.590	356	353	0.0138408
25.600	335	353	0.0148721
25.610	341	351	0.0145159
25.620	325	346	0.0152416

25.630	337	340	0.0148721
25.640	341	334	0.0145159
25.650	342	327	0.0145159
25.660	320	321	0.0156250
25.670	325	316	0.0152416
25.680	308	312	0.0160231
25.690	318	308	0.0156250
25.700	304	307	0.0164366
25.710	326	306	0.0152416
25.720	304	306	0.0164366
25.730	314	308	0.0160231
25.740	312	310	0.0160231
25.750	318	312	0.0156250
25.760	313	315	0.0160231
25.770	326	316	0.0152416
25.780	311	317	0.0160231
25.790	299	316	0.0164366
25.800	301	314	0.0164366
25.810	298	310	0.0168663
25.820	292	304	0.0168663
25.830	296	298	0.0168663
25.840	278	291	0.0177778
25.850	288	284	0.0173130
25.860	274	278	0.0182615
25.870	269	272	0.0182615
25.880	269	266	0.0182615
25.890	260	262	0.0192901
25.900	251	258	0.0198373
25.910	256	255	0.0192901
25.920	256	253	0.0192901
25.930	248	252	0.0198373
25.940	246	252	0.0204082
25.950	248	253	0.0198373
25.960	250	255	0.0198373
25.970	252	258	0.0198373
25.980	254	263	0.0192901
25.990	257	268	0.0192901
26.000	274	273	0.0182615
26.010	259	278	0.0192901
26.020	269	281	0.0182615
26.030	271	283	0.0182615
26.040	262	282	0.0187652
26.050	275	281	0.0177778
26.060	269	279	0.0182615
26.070	281	278	0.0177778
26.080	291	278	0.0168663
26.090	285	280	0.0173130
26.100	296	283	0.0168663
26.110	301	288	0.0164366
26.120	317	294	0.0156250
26.130	336	301	0.0148721
26.140	348	311	0.0141723
26.150	372	321	0.0132118
26.160	380	333	0.0129132

26.170	384	346	0.0129132
26.180	404	361	0.0123457
26.190	431	376	0.0115620
26.200	445	391	0.0110803
26.210	440	406	0.0113173
26.220	453	419	0.0108507
26.230	466	429	0.0106281
26.240	466	436	0.0106281
26.250	465	438	0.0106281
26.260	451	436	0.0108507
26.270	436	430	0.0113173
26.280	430	419	0.0115620
26.290	421	407	0.0118147
26.300	411	393	0.0120758
26.310	403	378	0.0123457
26.320	390	364	0.0126247
26.330	346	351	0.0141723
26.340	353	338	0.0138408
26.350	333	328	0.0148721
26.360	311	318	0.0160231
26.370	307	311	0.0160231
26.380	307	305	0.0160231
26.390	292	301	0.0168663
26.400	292	298	0.0168663
26.410	278	298	0.0177778
26.420	289	299	0.0168663
26.430	304	303	0.0160231
26.440	302	309	0.0164366
26.450	300	318	0.0164366
26.460	336	330	0.0145159
26.470	335	344	0.0145159
26.480	346	359	0.0141723
26.490	344	373	0.0141723
26.500	359	382	0.0138408
26.510	356	383	0.0138408
26.520	354	376	0.0138408
26.530	348	363	0.0141723
26.540	337	346	0.0145159
26.550	337	330	0.0145159
26.560	302	316	0.0164366
26.570	299	305	0.0164366
26.580	290	297	0.0168663
26.590	281	291	0.0173130
26.600	275	287	0.0177778
26.610	286	285	0.0173130
26.620	262	285	0.0187652
26.630	284	286	0.0173130
26.640	284	289	0.0173130
26.650	289	293	0.0168663
26.660	293	298	0.0168663
26.670	301	305	0.0164366
26.680	312	313	0.0156250
26.690	325	323	0.0152416
26.700	351	335	0.0138408

26.710	364	349	0.0135208
26.720	381	366	0.0129132
26.730	400	384	0.0123457
26.740	442	406	0.0110803
26.750	482	431	0.0102030
26.760	499	459	0.0098030
26.770	518	490	0.0094260
26.780	554	524	0.0089000
26.790	585	558	0.0084168
26.800	610	593	0.0079719
26.810	628	625	0.0078315
26.820	629	651	0.0078315
26.830	641	669	0.0076947
26.840	650	677	0.0075614
26.850	626	673	0.0078315
26.860	626	658	0.0078315
26.870	618	636	0.0079719
26.880	594	607	0.0082645
26.890	564	576	0.0087344
26.900	541	545	0.0090703
26.910	534	515	0.0092456
26.920	502	487	0.0098030
26.930	484	461	0.0102030
26.940	439	438	0.0110803
26.950	445	417	0.0110803
26.960	400	398	0.0123457
26.970	385	381	0.0126247
26.980	379	365	0.0129132
26.990	361	351	0.0135208
27.000	349	339	0.0141723
27.010	335	327	0.0145159
27.020	318	317	0.0152416
27.030	304	308	0.0160231
27.040	288	300	0.0168663
27.050	280	293	0.0173130
27.060	281	287	0.0173130
27.070	269	282	0.0182615
27.080	279	278	0.0177778
27.090	262	274	0.0187652
27.100	248	272	0.0198373
27.110	259	270	0.0187652
27.120	258	269	0.0187652
27.130	253	268	0.0192901
27.140	254	269	0.0192901
27.150	246	270	0.0198373
27.160	259	271	0.0187652
27.170	238	274	0.0204082
27.180	256	277	0.0192901
27.190	266	282	0.0182615
27.200	273	287	0.0177778
27.210	278	294	0.0173130
27.220	283	302	0.0173130
27.230	297	312	0.0164366
27.240	308	324	0.0160231

27.250	323	339	0.0152416
27.260	336	357	0.0145159
27.270	357	378	0.0135208
27.280	402	404	0.0120758
27.290	438	436	0.0110803
27.300	456	474	0.0106281
27.310	517	520	0.0094260
27.320	579	575	0.0084168
27.330	644	639	0.0075614
27.340	720	710	0.0067186
27.350	785	786	0.0062000
27.360	840	860	0.0058272
27.370	899	924	0.0054066
27.380	934	968	0.0051757
27.390	926	980	0.0052510
27.400	928	956	0.0052510
27.410	881	902	0.0054870
27.420	823	829	0.0059172
27.430	806	752	0.0060093
27.440	728	681	0.0066098
27.450	706	622	0.0068301
27.460	662	575	0.0073051
27.470	618	538	0.0078315
27.480	596	512	0.0081162
27.490	586	494	0.0082645
27.500	540	482	0.0089000
27.510	551	475	0.0087344
27.520	533	472	0.0090703
27.530	536	472	0.0090703
27.540	517	473	0.0094260
27.550	532	475	0.0090703
27.560	528	476	0.0090703
27.570	512	475	0.0094260
27.580	484	471	0.0100000
27.590	490	464	0.0098030
27.600	485	454	0.0100000
27.610	456	441	0.0106281
27.620	447	426	0.0108507
27.630	445	410	0.0108507
27.640	401	394	0.0120758
27.650	404	378	0.0118147
27.660	373	363	0.0129132
27.670	358	349	0.0135208
27.680	354	335	0.0135208
27.690	346	323	0.0138408
27.700	321	312	0.0148721
27.710	312	302	0.0152416
27.720	318	293	0.0152416
27.730	286	284	0.0168663
27.740	285	276	0.0168663
27.750	257	268	0.0187652
27.760	289	261	0.0164366
27.770	250	255	0.0192901
27.780	254	249	0.0187652

27.790	234	244	0.0204082
27.800	246	239	0.0198373
27.810	246	235	0.0192901
27.820	228	231	0.0210040
27.830	226	228	0.0210040
27.840	228	225	0.0210040
27.850	217	222	0.0222767
27.860	210	220	0.0229568
27.870	215	218	0.0222767
27.880	204	216	0.0236686
27.890	215	215	0.0222767
27.900	207	214	0.0229568
27.910	213	213	0.0222767
27.920	202	212	0.0236686
27.930	195	212	0.0244141
27.940	200	212	0.0236686
27.950	200	212	0.0236686
27.960	221	212	0.0216263
27.970	212	213	0.0229568
27.980	211	214	0.0229568
27.990	207	215	0.0229568
28.000	244	217	0.0113173
28.010	230	219	0.0120758
28.020	220	221	0.0126247
28.030	256	224	0.0108507
28.040	230	228	0.0120758
28.050	242	232	0.0113173
28.060	257	237	0.0108507
28.070	267	243	0.0104123
28.080	274	249	0.0100000
28.090	289	256	0.0096117
28.100	298	263	0.0092456
28.110	294	271	0.0094260
28.120	310	279	0.0089000
28.130	307	286	0.0090703
28.140	323	293	0.0085734
28.150	294	300	0.0094260
28.160	323	306	0.0085734
28.170	351	312	0.0078315
28.180	336	318	0.0082645
28.190	321	324	0.0085734
28.200	318	328	0.0087344
28.210	333	331	0.0082645
28.220	321	331	0.0085734
28.230	323	327	0.0085734
28.240	301	318	0.0090703
28.250	300	307	0.0092456
28.260	283	294	0.0098030
28.270	255	280	0.0108507
28.280	255	267	0.0108507
28.290	259	255	0.0106281
28.300	266	244	0.0104123
28.310	242	235	0.0113173
28.320	235	227	0.0118147

28.330	231	221	0.0118147
28.340	223	215	0.0123457
28.350	214	210	0.0129132
28.360	218	206	0.0126247
28.370	227	202	0.0120758
28.380	201	199	0.0138408
28.390	194	196	0.0141723
28.400	184	194	0.0148721
28.410	188	192	0.0145159
28.420	184	190	0.0148721
28.430	187	189	0.0148721
28.440	189	187	0.0145159
28.450	188	186	0.0145159
28.460	198	185	0.0138408
28.470	180	184	0.0152416
28.480	180	183	0.0152416
28.490	177	182	0.0156250
28.500	168	181	0.0164366
28.510	184	181	0.0148721
28.520	177	180	0.0156250
28.530	170	180	0.0160231
28.540	166	180	0.0164366
28.550	179	179	0.0152416
28.560	163	179	0.0168663
28.570	168	179	0.0164366
28.580	175	179	0.0156250
28.590	173	179	0.0160231
28.600	173	180	0.0160231
28.610	168	180	0.0164366
28.620	186	181	0.0148721
28.630	165	182	0.0168663
28.640	165	183	0.0164366
28.650	165	185	0.0164366
28.660	178	186	0.0152416
28.670	175	186	0.0156250
28.680	195	186	0.0141723
28.690	172	185	0.0160231
28.700	164	184	0.0168663
28.710	168	182	0.0164366
28.720	166	181	0.0164366
28.730	166	180	0.0164366
28.740	171	179	0.0160231
28.750	175	178	0.0156250
28.760	169	177	0.0160231
28.770	173	177	0.0156250
28.780	171	176	0.0160231
28.790	163	176	0.0168663
28.800	173	176	0.0160231
28.810	157	176	0.0173130
28.820	163	176	0.0168663
28.830	166	176	0.0164366
28.840	167	176	0.0164366
28.850	165	176	0.0164366
28.860	166	177	0.0164366

28.870	161	177	0.0168663
28.880	158	177	0.0173130
28.890	191	178	0.0141723
28.900	172	178	0.0160231
28.910	180	179	0.0152416
28.920	178	180	0.0152416
28.930	174	181	0.0156250
28.940	171	182	0.0160231
28.950	181	183	0.0148721
28.960	184	184	0.0148721
28.970	179	186	0.0152416
28.980	192	188	0.0141723
28.990	172	190	0.0156250
29.000	194	193	0.0138408
29.010	197	197	0.0138408
29.020	204	201	0.0132118
29.030	204	206	0.0132118
29.040	223	212	0.0120758
29.050	236	219	0.0115620
29.060	223	227	0.0120758
29.070	224	235	0.0120758
29.080	233	241	0.0115620
29.090	246	244	0.0110803
29.100	224	243	0.0120758
29.110	208	239	0.0129132
29.120	228	233	0.0118147
29.130	230	226	0.0118147
29.140	229	220	0.0118147
29.150	205	215	0.0132118
29.160	201	212	0.0135208
29.170	202	209	0.0132118
29.180	209	207	0.0129132
29.190	211	207	0.0129132
29.200	191	206	0.0141723
29.210	208	207	0.0129132
29.220	205	208	0.0132118
29.230	204	209	0.0132118
29.240	202	211	0.0132118
29.250	212	214	0.0126247
29.260	220	217	0.0123457
29.270	236	221	0.0113173
29.280	223	225	0.0120758
29.290	239	230	0.0113173
29.300	258	236	0.0104123
29.310	256	243	0.0106281
29.320	260	250	0.0104123
29.330	269	258	0.0100000
29.340	264	266	0.0102030
29.350	276	274	0.0098030
29.360	279	282	0.0096117
29.370	294	289	0.0092456
29.380	287	295	0.0094260
29.390	286	299	0.0094260
29.400	302	301	0.0089000

29.410	307	301	0.0087344
29.420	301	299	0.0089000
29.430	302	295	0.0089000
29.440	287	290	0.0094260
29.450	288	285	0.0092456
29.460	273	280	0.0098030
29.470	282	274	0.0096117
29.480	278	269	0.0096117
29.490	267	263	0.0100000
29.500	254	256	0.0106281
29.510	257	250	0.0104123
29.520	235	245	0.0115620
29.530	243	239	0.0110803
29.540	249	235	0.0108507
29.550	225	230	0.0120758
29.560	230	226	0.0118147
29.570	229	223	0.0118147
29.580	233	220	0.0115620
29.590	223	217	0.0120758
29.600	198	215	0.0135208
29.610	200	212	0.0135208
29.620	194	211	0.0138408
29.630	209	209	0.0129132
29.640	190	208	0.0141723
29.650	187	207	0.0145159
29.660	197	206	0.0138408
29.670	197	205	0.0135208
29.680	197	205	0.0138408
29.690	202	204	0.0132118
29.700	199	204	0.0135208
29.710	190	203	0.0141723
29.720	207	203	0.0129132
29.730	196	203	0.0138408
29.740	198	203	0.0135208
29.750	213	203	0.0126247
29.760	213	204	0.0126247
29.770	199	205	0.0135208
29.780	193	205	0.0138408
29.790	183	207	0.0148721
29.800	187	208	0.0145159
29.810	195	210	0.0138408
29.820	192	212	0.0141723
29.830	198	214	0.0135208
29.840	199	217	0.0135208
29.850	225	220	0.0120758
29.860	219	223	0.0123457
29.870	211	226	0.0126247
29.880	222	229	0.0120758
29.890	221	233	0.0123457
29.900	222	236	0.0120758
29.910	220	240	0.0123457
29.920	238	245	0.0113173
29.930	255	250	0.0106281
29.940	265	255	0.0102030

29.950	279	262	0.0096117
29.960	279	269	0.0096117
29.970	298	277	0.0090703
29.980	297	286	0.0090703
29.990	310	296	0.0087344
30.000	321	306	0.0204082
30.010	340	317	0.0113173
30.020	339	328	0.0113173
30.030	347	339	0.0110803
30.040	346	350	0.0110803
30.050	378	359	0.0102030
30.060	367	367	0.0104123
30.070	388	372	0.0098030
30.080	362	375	0.0106281
30.090	359	376	0.0106281
30.100	375	374	0.0102030
30.110	366	370	0.0104123
30.120	373	365	0.0102030
30.130	360	358	0.0106281
30.140	351	352	0.0108507
30.150	354	345	0.0108507
30.160	336	340	0.0113173
30.170	326	335	0.0118147
30.180	340	332	0.0113173
30.190	325	331	0.0118147
30.200	351	332	0.0108507
30.210	340	335	0.0113173
30.220	338	341	0.0113173
30.230	373	349	0.0102030
30.240	373	360	0.0102030
30.250	372	372	0.0102030
30.260	390	386	0.0098030
30.270	393	397	0.0096117
30.280	396	404	0.0096117
30.290	385	402	0.0098030
30.300	381	393	0.0100000
30.310	367	378	0.0104123
30.320	346	361	0.0110803
30.330	327	343	0.0115620
30.340	306	327	0.0123457
30.350	307	312	0.0123457
30.360	293	299	0.0129132
30.370	273	287	0.0138408
30.380	272	276	0.0138408
30.390	245	267	0.0156250
30.400	240	259	0.0160231
30.410	219	251	0.0173130
30.420	231	245	0.0164366
30.430	224	239	0.0168663
30.440	213	234	0.0177778
30.450	211	230	0.0177778
30.460	202	226	0.0187652
30.470	203	222	0.0187652
30.480	206	219	0.0182615

30.490	202	217	0.0187652
30.500	201	215	0.0187652
30.510	196	213	0.0192901
30.520	205	212	0.0182615
30.530	191	211	0.0198373
30.540	198	210	0.0192901
30.550	202	209	0.0187652
30.560	193	209	0.0198373
30.570	189	210	0.0198373
30.580	191	210	0.0198373
30.590	201	212	0.0187652
30.600	204	213	0.0187652
30.610	205	215	0.0182615
30.620	207	218	0.0182615
30.630	224	222	0.0168663
30.640	214	226	0.0177778
30.650	211	230	0.0177778
30.660	223	235	0.0168663
30.670	227	238	0.0168663
30.680	236	240	0.0160231
30.690	224	240	0.0168663
30.700	225	238	0.0168663
30.710	227	236	0.0164366
30.720	222	234	0.0168663
30.730	216	232	0.0177778
30.740	210	231	0.0182615
30.750	215	231	0.0177778
30.760	232	232	0.0164366
30.770	228	233	0.0164366
30.780	243	235	0.0156250
30.790	233	237	0.0160231
30.800	233	240	0.0164366
30.810	253	244	0.0148721
30.820	249	248	0.0152416
30.830	248	251	0.0152416
30.840	247	255	0.0152416
30.850	246	259	0.0152416
30.860	274	262	0.0138408
30.870	260	266	0.0145159
30.880	263	268	0.0145159
30.890	276	271	0.0138408
30.900	281	273	0.0135208
30.910	283	276	0.0132118
30.920	276	279	0.0138408
30.930	299	282	0.0126247
30.940	315	287	0.0120758
30.950	321	293	0.0118147
30.960	304	300	0.0123457
30.970	313	309	0.0120758
30.980	335	321	0.0113173
30.990	366	334	0.0102030
31.000	353	349	0.0106281
31.010	402	366	0.0094260
31.020	397	385	0.0094260

31.030	396	404	0.0094260
31.040	411	421	0.0092456
31.050	405	436	0.0092456
31.060	407	444	0.0092456
31.070	410	446	0.0090703
31.080	394	441	0.0096117
31.090	405	429	0.0092456
31.100	364	411	0.0104123
31.110	373	391	0.0100000
31.120	347	370	0.0108507
31.130	334	350	0.0113173
31.140	331	330	0.0113173
31.150	301	313	0.0123457
31.160	301	297	0.0123457
31.170	291	284	0.0129132
31.180	265	272	0.0141723
31.190	265	263	0.0141723
31.200	248	254	0.0148721
31.210	262	247	0.0141723
31.220	236	241	0.0156250
31.230	242	236	0.0152416
31.240	229	232	0.0164366
31.250	222	228	0.0168663
31.260	234	225	0.0160231
31.270	212	223	0.0173130
31.280	220	221	0.0168663
31.290	211	220	0.0177778
31.300	236	220	0.0156250
31.310	221	220	0.0168663
31.320	206	220	0.0177778
31.330	211	221	0.0177778
31.340	215	222	0.0173130
31.350	233	224	0.0160231
31.360	216	226	0.0173130
31.370	231	228	0.0160231
31.380	231	231	0.0160231
31.390	239	235	0.0156250
31.400	251	240	0.0148721
31.410	265	247	0.0138408
31.420	267	256	0.0138408
31.430	277	267	0.0135208
31.440	278	283	0.0132118
31.450	287	301	0.0129132
31.460	281	322	0.0132118
31.470	284	339	0.0132118
31.480	292	348	0.0126247
31.490	282	342	0.0132118
31.500	268	326	0.0138408
31.510	257	304	0.0145159
31.520	259	284	0.0145159
31.530	254	268	0.0145159
31.540	253	255	0.0145159
31.550	241	246	0.0152416
31.560	239	239	0.0156250

31.570	245	234	0.0152416
31.580	248	232	0.0148721
31.590	244	230	0.0152416
31.600	246	230	0.0152416
31.610	238	230	0.0156250
31.620	240	232	0.0156250
31.630	229	234	0.0164366
31.640	246	237	0.0152416
31.650	253	241	0.0148721
31.660	248	245	0.0148721
31.670	252	251	0.0148721
31.680	269	257	0.0138408
31.690	261	265	0.0141723
31.700	282	273	0.0132118
31.710	285	283	0.0129132
31.720	318	294	0.0118147
31.730	325	306	0.0115620
31.740	328	320	0.0113173
31.750	370	336	0.0100000
31.760	394	354	0.0094260
31.770	420	374	0.0089000
31.780	445	397	0.0084168
31.790	468	423	0.0079719
31.800	492	452	0.0075614
31.810	543	482	0.0068301
31.820	581	509	0.0064000
31.830	570	530	0.0065036
31.840	585	538	0.0064000
31.850	566	532	0.0066098
31.860	552	513	0.0067186
31.870	512	484	0.0073051
31.880	506	452	0.0073051
31.890	446	421	0.0084168
31.900	416	392	0.0089000
31.910	379	366	0.0098030
31.920	375	345	0.0100000
31.930	350	326	0.0106281
31.940	340	311	0.0110803
31.950	310	298	0.0120758
31.960	300	287	0.0123457
31.970	286	278	0.0129132
31.980	285	270	0.0132118
31.990	278	264	0.0135208
32.000	267	260	0.0138408
32.010	251	256	0.0148721
32.020	250	253	0.0148721
32.030	246	252	0.0152416
32.040	266	251	0.0138408
32.050	260	251	0.0141723
32.060	250	252	0.0148721
32.070	248	255	0.0148721
32.080	273	258	0.0135208
32.090	270	263	0.0138408
32.100	290	268	0.0129132

32.110	279	276	0.0132118
32.120	314	284	0.0118147
32.130	311	295	0.0120758
32.140	341	308	0.0108507
32.150	346	323	0.0106281
32.160	352	340	0.0106281
32.170	359	359	0.0104123
32.180	383	381	0.0096117
32.190	384	404	0.0096117
32.200	399	427	0.0092456
32.210	398	450	0.0092456
32.220	418	470	0.0089000
32.230	424	482	0.0087344
32.240	403	483	0.0092456
32.250	378	471	0.0098030
32.260	407	449	0.0090703
32.270	378	420	0.0098030
32.280	386	391	0.0096117
32.290	370	364	0.0100000
32.300	350	341	0.0104123
32.310	316	321	0.0115620
32.320	323	306	0.0113173
32.330	321	293	0.0115620
32.340	308	283	0.0118147
32.350	285	276	0.0129132
32.360	293	270	0.0126247
32.370	301	266	0.0120758
32.380	280	264	0.0132118
32.390	277	262	0.0132118
32.400	291	262	0.0126247
32.410	292	264	0.0126247
32.420	273	266	0.0135208
32.430	301	269	0.0120758
32.440	284	273	0.0129132
32.450	291	277	0.0126247
32.460	300	283	0.0120758
32.470	280	288	0.0129132
32.480	296	293	0.0123457
32.490	292	298	0.0123457
32.500	290	301	0.0126247
32.510	293	304	0.0123457
32.520	288	304	0.0126247
32.530	279	303	0.0129132
32.540	261	300	0.0138408
32.550	265	296	0.0138408
32.560	276	290	0.0132118
32.570	267	284	0.0135208
32.580	258	277	0.0141723
32.590	266	269	0.0138408
32.600	235	261	0.0156250
32.610	245	253	0.0148721
32.620	229	245	0.0160231
32.630	232	237	0.0156250
32.640	230	230	0.0156250

32.650	215	224	0.0168663
32.660	219	218	0.0164366
32.670	227	213	0.0160231
32.680	194	208	0.0187652
32.690	202	204	0.0177778
32.700	199	200	0.0182615
32.710	190	197	0.0192901
32.720	198	194	0.0182615
32.730	194	191	0.0187652
32.740	188	189	0.0192901
32.750	190	187	0.0192901
32.760	195	185	0.0187652
32.770	180	183	0.0204082
32.780	189	181	0.0192901
32.790	184	180	0.0198373
32.800	181	178	0.0204082
32.810	162	177	0.0222767
32.820	177	176	0.0204082
32.830	171	175	0.0210040
32.840	172	174	0.0210040
32.850	166	173	0.0222767
32.860	164	172	0.0222767
32.870	174	171	0.0210040
32.880	162	171	0.0222767
32.890	173	170	0.0210040
32.900	158	169	0.0229568
32.910	170	169	0.0216263
32.920	166	168	0.0222767
32.930	160	168	0.0229568
32.940	166	167	0.0222767
32.950	167	167	0.0216263
32.960	174	166	0.0210040
32.970	158	166	0.0229568
32.980	150	166	0.0244141
32.990	153	165	0.0236686
33.000	163	165	0.0222767
33.010	160	165	0.0229568
33.020	169	165	0.0216263
33.030	158	164	0.0229568
33.040	162	164	0.0222767
33.050	148	164	0.0244141
33.060	151	164	0.0244141
33.070	163	164	0.0222767
33.080	156	163	0.0236686
33.090	156	163	0.0236686
33.100	164	163	0.0222767
33.110	162	163	0.0222767
33.120	162	163	0.0222767
33.130	159	163	0.0229568
33.140	159	163	0.0229568
33.150	158	163	0.0229568
33.160	169	163	0.0216263
33.170	167	163	0.0216263
33.180	159	163	0.0229568

33.190	154	163	0.0236686
33.200	155	163	0.0236686
33.210	158	163	0.0229568
33.220	155	163	0.0236686
33.230	150	163	0.0244141
33.240	150	163	0.0244141
33.250	162	163	0.0222767
33.260	179	164	0.0204082
33.270	172	164	0.0210040
33.280	150	164	0.0244141
33.290	178	164	0.0204082
33.300	164	164	0.0222767
33.310	161	165	0.0222767
33.320	160	165	0.0229568
33.330	152	165	0.0236686
33.340	171	166	0.0210040
33.350	173	166	0.0210040
33.360	159	166	0.0229568
33.370	157	167	0.0229568
33.380	166	167	0.0216263
33.390	156	168	0.0229568
33.400	155	169	0.0229568
33.410	169	169	0.0216263
33.420	172	170	0.0210040
33.430	166	171	0.0216263
33.440	168	172	0.0216263
33.450	169	173	0.0216263
33.460	152	174	0.0236686
33.470	164	175	0.0222767
33.480	185	176	0.0192901
33.490	179	178	0.0198373
33.500	186	180	0.0192901
33.510	182	181	0.0198373
33.520	177	184	0.0204082
33.530	178	186	0.0204082
33.540	180	189	0.0198373
33.550	184	192	0.0198373
33.560	218	195	0.0164366
33.570	196	199	0.0182615
33.580	212	203	0.0168663
33.590	228	209	0.0156250
33.600	221	215	0.0164366
33.610	231	222	0.0156250
33.620	246	230	0.0145159
33.630	248	240	0.0145159
33.640	275	251	0.0132118
33.650	264	264	0.0135208
33.660	304	278	0.0118147
33.670	301	294	0.0118147
33.680	304	309	0.0118147
33.690	305	323	0.0118147
33.700	293	333	0.0123457
33.710	315	337	0.0113173
33.720	316	336	0.0113173

33.730	304	328	0.0118147
33.740	285	317	0.0126247
33.750	297	303	0.0120758
33.760	264	289	0.0135208
33.770	273	277	0.0132118
33.780	279	266	0.0129132
33.790	265	257	0.0135208
33.800	250	249	0.0145159
33.810	256	243	0.0141723
33.820	255	239	0.0141723
33.830	257	236	0.0138408
33.840	228	233	0.0156250
33.850	248	232	0.0145159
33.860	234	232	0.0152416
33.870	244	232	0.0148721
33.880	246	234	0.0145159
33.890	256	236	0.0141723
33.900	260	238	0.0138408
33.910	287	242	0.0126247
33.920	279	246	0.0129132
33.930	278	251	0.0129132
33.940	273	256	0.0132118
33.950	282	262	0.0126247
33.960	295	268	0.0120758
33.970	318	274	0.0113173
33.980	309	281	0.0115620
33.990	314	288	0.0113173
34.000	309	296	0.0115620
34.010	345	304	0.0104123
34.020	323	312	0.0110803
34.030	353	319	0.0102030
34.040	335	325	0.0106281
34.050	333	328	0.0106281
34.060	349	329	0.0102030
34.070	354	325	0.0102030
34.080	359	319	0.0100000
34.090	317	311	0.0113173
34.100	314	302	0.0113173
34.110	299	294	0.0120758
34.120	305	286	0.0118147
34.130	304	279	0.0118147
34.140	292	272	0.0123457
34.150	286	267	0.0126247
34.160	279	263	0.0126247
34.170	261	260	0.0135208
34.180	268	257	0.0132118
34.190	266	256	0.0135208
34.200	274	254	0.0129132
34.210	262	254	0.0135208
34.220	265	254	0.0135208
34.230	269	254	0.0132118
34.240	251	255	0.0141723
34.250	272	256	0.0132118
34.260	278	258	0.0129132

34.270	266	261	0.0135208
34.280	277	265	0.0129132
34.290	293	269	0.0120758
34.300	289	274	0.0123457
34.310	306	281	0.0115620
34.320	319	289	0.0110803
34.330	301	298	0.0118147
34.340	320	308	0.0110803
34.350	323	319	0.0110803
34.360	343	332	0.0104123
34.370	345	344	0.0102030
34.380	365	356	0.0098030
34.390	367	366	0.0096117
34.400	378	375	0.0094260
34.410	335	380	0.0106281
34.420	361	381	0.0098030
34.430	359	377	0.0098030
34.440	339	370	0.0104123
34.450	341	358	0.0104123
34.460	342	345	0.0104123
34.470	316	330	0.0113173
34.480	298	316	0.0118147
34.490	327	302	0.0108507
34.500	287	290	0.0123457
34.510	299	279	0.0118147
34.520	273	269	0.0129132
34.530	261	261	0.0135208
34.540	279	254	0.0126247
34.550	254	248	0.0138408
34.560	251	243	0.0141723
34.570	258	238	0.0138408
34.580	235	235	0.0152416
34.590	243	232	0.0145159
34.600	248	230	0.0141723
34.610	239	228	0.0148721
34.620	241	227	0.0148721
34.630	235	227	0.0148721
34.640	243	228	0.0145159
34.650	235	229	0.0152416
34.660	252	231	0.0141723
34.670	261	234	0.0135208
34.680	257	238	0.0138408
34.690	263	244	0.0135208
34.700	280	252	0.0126247
34.710	268	261	0.0132118
34.720	285	272	0.0123457
34.730	298	286	0.0118147
34.740	295	301	0.0120758
34.750	292	318	0.0120758
34.760	304	335	0.0115620
34.770	297	349	0.0118147
34.780	310	359	0.0113173
34.790	313	362	0.0113173
34.800	302	357	0.0118147

34.810	279	345	0.0126247
34.820	284	329	0.0123457
34.830	282	311	0.0126247
34.840	276	294	0.0129132
34.850	263	278	0.0135208
34.860	261	263	0.0135208
34.870	277	252	0.0129132
34.880	252	242	0.0141723
34.890	237	234	0.0148721
34.900	237	227	0.0148721
34.910	243	223	0.0145159
34.920	233	219	0.0152416
34.930	243	217	0.0145159
34.940	237	216	0.0148721
34.950	227	215	0.0156250
34.960	245	217	0.0145159
34.970	230	219	0.0156250
34.980	247	224	0.0145159
34.990	264	231	0.0135208
35.000	265	241	0.0135208
35.010	290	255	0.0123457
35.020	299	274	0.0118147
35.030	301	299	0.0118147
35.040	306	327	0.0115620
35.050	315	348	0.0113173
35.060	311	353	0.0113173
35.070	311	339	0.0113173
35.080	308	317	0.0115620
35.090	291	297	0.0120758
35.100	276	281	0.0129132
35.110	294	269	0.0120758
35.120	272	259	0.0129132
35.130	262	251	0.0135208
35.140	254	242	0.0138408
35.150	255	235	0.0138408
35.160	259	227	0.0135208
35.170	222	220	0.0160231
35.180	229	214	0.0156250
35.190	225	208	0.0156250
35.200	219	203	0.0160231
35.210	197	198	0.0177778
35.220	204	194	0.0173130
35.230	196	191	0.0182615
35.240	204	187	0.0173130
35.250	192	184	0.0182615
35.260	187	182	0.0187652
35.270	181	180	0.0192901
35.280	186	178	0.0187652
35.290	177	176	0.0198373
35.300	180	175	0.0192901
35.310	177	174	0.0198373
35.320	180	173	0.0192901
35.330	193	172	0.0182615
35.340	170	171	0.0204082

35.350	182	171	0.0192901
35.360	171	170	0.0204082
35.370	173	170	0.0204082
35.380	175	170	0.0198373
35.390	170	170	0.0204082
35.400	170	170	0.0204082
35.410	176	170	0.0198373
35.420	185	169	0.0187652
35.430	166	169	0.0210040
35.440	163	168	0.0216263
35.450	171	168	0.0204082
35.460	168	168	0.0210040
35.470	158	168	0.0222767
35.480	179	168	0.0192901
35.490	155	168	0.0222767
35.500	158	168	0.0222767
35.510	170	168	0.0204082
35.520	161	169	0.0216263
35.530	178	169	0.0192901
35.540	165	170	0.0210040
35.550	169	170	0.0204082
35.560	158	171	0.0222767
35.570	167	172	0.0210040
35.580	162	173	0.0216263
35.590	179	174	0.0192901
35.600	176	175	0.0198373
35.610	177	177	0.0198373
35.620	187	178	0.0187652
35.630	185	180	0.0187652
35.640	181	182	0.0192901
35.650	184	184	0.0187652
35.660	191	186	0.0182615
35.670	183	189	0.0187652
35.680	188	192	0.0182615
35.690	196	195	0.0177778
35.700	212	198	0.0164366
35.710	206	202	0.0168663
35.720	195	207	0.0177778
35.730	206	212	0.0168663
35.740	219	218	0.0156250
35.750	230	224	0.0152416
35.760	227	231	0.0152416
35.770	233	240	0.0148721
35.780	243	249	0.0141723
35.790	255	258	0.0135208
35.800	259	268	0.0132118
35.810	248	277	0.0138408
35.820	270	284	0.0129132
35.830	261	289	0.0132118
35.840	266	291	0.0129132
35.850	283	290	0.0123457
35.860	269	288	0.0129132
35.870	283	284	0.0123457
35.880	265	281	0.0132118

35.890	282	279	0.0123457
35.900	286	278	0.0120758
35.910	300	278	0.0115620
35.920	302	281	0.0115620
35.930	304	284	0.0113173
35.940	315	290	0.0110803
35.950	329	297	0.0106281
35.960	341	307	0.0102030
35.970	353	318	0.0098030
35.980	366	331	0.0094260
35.990	387	347	0.0089000
36.000	415	365	0.0084168
36.010	418	386	0.0082645
36.020	467	409	0.0074316
36.030	476	437	0.0073051
36.040	521	467	0.0066098
36.050	558	500	0.0062000
36.060	565	535	0.0061035
36.070	581	568	0.0060093
36.080	631	596	0.0054870
36.090	617	612	0.0056532
36.100	626	615	0.0055692
36.110	607	607	0.0057392
36.120	560	590	0.0062000
36.130	558	570	0.0062000
36.140	531	548	0.0065036
36.150	528	524	0.0066098
36.160	483	496	0.0071818
36.170	462	466	0.0074316
36.180	433	434	0.0079719
36.190	421	403	0.0082645
36.200	377	375	0.0092456
36.210	367	349	0.0094260
36.220	339	327	0.0102030
36.230	339	308	0.0102030
36.240	325	291	0.0106281
36.250	304	277	0.0113173
36.260	283	265	0.0120758
36.270	269	254	0.0129132
36.280	269	245	0.0129132
36.290	262	237	0.0132118
36.300	241	230	0.0141723
36.310	248	225	0.0138408
36.320	249	219	0.0138408
36.330	239	215	0.0145159
36.340	224	211	0.0152416
36.350	219	208	0.0156250
36.360	219	206	0.0156250
36.370	224	204	0.0152416
36.380	211	203	0.0164366
36.390	208	202	0.0164366
36.400	214	201	0.0160231
36.410	215	201	0.0160231
36.420	203	201	0.0168663

36.430	202	200	0.0168663
36.440	185	198	0.0187652
36.450	198	196	0.0173130
36.460	189	193	0.0182615
36.470	186	190	0.0187652
36.480	191	188	0.0177778
36.490	181	185	0.0192901
36.500	175	183	0.0198373
36.510	188	181	0.0182615
36.520	186	180	0.0182615
36.530	186	178	0.0182615
36.540	167	177	0.0204082
36.550	161	176	0.0210040
36.560	166	175	0.0210040
36.570	168	174	0.0204082
36.580	163	174	0.0210040
36.590	178	173	0.0192901
36.600	163	173	0.0210040
36.610	169	173	0.0204082
36.620	159	173	0.0216263
36.630	176	173	0.0192901
36.640	164	174	0.0210040
36.650	172	174	0.0198373
36.660	164	175	0.0210040
36.670	178	176	0.0192901
36.680	175	177	0.0198373
36.690	169	178	0.0204082
36.700	170	180	0.0204082
36.710	197	181	0.0173130
36.720	190	183	0.0182615
36.730	184	185	0.0187652
36.740	199	187	0.0173130
36.750	193	190	0.0177778
36.760	188	193	0.0182615
36.770	199	196	0.0173130
36.780	203	199	0.0168663
36.790	194	203	0.0177778
36.800	198	206	0.0173130
36.810	199	209	0.0173130
36.820	200	212	0.0173130
36.830	210	213	0.0164366
36.840	198	214	0.0173130
36.850	206	213	0.0164366
36.860	222	212	0.0156250
36.870	217	210	0.0160231
36.880	210	208	0.0164366
36.890	204	206	0.0168663
36.900	227	204	0.0152416
36.910	214	203	0.0160231
36.920	196	201	0.0173130
36.930	211	199	0.0164366
36.940	210	198	0.0164366
36.950	201	197	0.0168663
36.960	197	197	0.0173130

36.970	210	196	0.0164366
36.980	194	196	0.0177778
36.990	213	197	0.0160231
37.000	201	197	0.0168663
37.010	190	198	0.0177778
37.020	203	199	0.0168663
37.030	201	201	0.0168663
37.040	201	202	0.0168663
37.050	200	203	0.0168663
37.060	206	205	0.0164366
37.070	203	205	0.0168663
37.080	209	206	0.0164366
37.090	197	206	0.0173130
37.100	211	206	0.0160231
37.110	204	205	0.0168663
37.120	195	203	0.0177778
37.130	202	201	0.0168663
37.140	189	199	0.0182615
37.150	196	197	0.0173130
37.160	185	194	0.0182615
37.170	183	192	0.0187652
37.180	197	189	0.0173130
37.190	184	187	0.0187652
37.200	176	185	0.0192901
37.210	181	183	0.0187652
37.220	173	181	0.0198373
37.230	187	179	0.0182615
37.240	182	178	0.0187652
37.250	179	177	0.0192901
37.260	180	176	0.0187652
37.270	173	175	0.0198373
37.280	172	174	0.0198373
37.290	174	173	0.0192901
37.300	153	173	0.0222767
37.310	164	172	0.0210040
37.320	186	172	0.0182615
37.330	175	171	0.0192901
37.340	170	171	0.0198373
37.350	152	170	0.0222767
37.360	158	170	0.0216263
37.370	165	170	0.0204082
37.380	178	170	0.0192901
37.390	181	170	0.0187652
37.400	166	171	0.0204082
37.410	168	171	0.0204082
37.420	171	171	0.0198373
37.430	163	171	0.0210040
37.440	175	171	0.0192901
37.450	160	171	0.0210040
37.460	169	170	0.0198373
37.470	163	169	0.0210040
37.480	156	168	0.0216263
37.490	157	167	0.0216263
37.500	157	166	0.0216263

37.510	168	165	0.0198373
37.520	157	164	0.0216263
37.530	154	163	0.0222767
37.540	142	162	0.0236686
37.550	148	161	0.0229568
37.560	151	159	0.0222767
37.570	147	158	0.0229568
37.580	148	157	0.0229568
37.590	146	156	0.0229568
37.600	149	155	0.0229568
37.610	136	155	0.0244141
37.620	139	154	0.0244141
37.630	149	154	0.0222767
37.640	157	153	0.0216263
37.650	148	153	0.0229568
37.660	144	153	0.0236686
37.670	142	153	0.0236686
37.680	139	154	0.0244141
37.690	153	154	0.0216263
37.700	164	155	0.0204082
37.710	153	155	0.0216263
37.720	164	156	0.0204082
37.730	162	157	0.0210040
37.740	168	158	0.0198373
37.750	158	160	0.0210040
37.760	158	162	0.0210040
37.770	162	164	0.0210040
37.780	172	166	0.0192901
37.790	155	168	0.0216263
37.800	177	171	0.0187652
37.810	172	173	0.0192901
37.820	151	175	0.0222767
37.830	185	177	0.0182615
37.840	166	178	0.0204082
37.850	162	177	0.0210040
37.860	172	176	0.0192901
37.870	159	175	0.0210040
37.880	165	173	0.0204082
37.890	178	170	0.0187652
37.900	157	168	0.0216263
37.910	138	166	0.0244141
37.920	172	164	0.0192901
37.930	159	162	0.0210040
37.940	159	161	0.0210040
37.950	146	160	0.0229568
37.960	154	159	0.0216263
37.970	157	159	0.0216263
37.980	171	158	0.0198373
37.990	148	158	0.0222767
38.000	155	159	0.0216263
38.010	156	159	0.0216263
38.020	179	160	0.0187652
38.030	162	162	0.0210040
38.040	166	163	0.0204082

38.050	177	165	0.0187652
38.060	173	167	0.0192901
38.070	175	169	0.0192901
38.080	166	172	0.0204082
38.090	175	174	0.0192901
38.100	183	176	0.0182615
38.110	158	178	0.0210040
38.120	171	180	0.0198373
38.130	161	181	0.0210040
38.140	171	183	0.0198373
38.150	168	182	0.0198373
38.160	166	181	0.0204082
38.170	156	178	0.0216263
38.180	159	175	0.0210040
38.190	162	172	0.0210040
38.200	151	169	0.0222767
38.210	160	167	0.0210040
38.220	159	166	0.0210040
38.230	163	165	0.0204082
38.240	165	164	0.0204082
38.250	158	164	0.0216263
38.260	179	164	0.0187652
38.270	152	164	0.0222767
38.280	155	165	0.0216263
38.290	161	165	0.0210040
38.300	180	167	0.0187652
38.310	164	168	0.0204082
38.320	149	169	0.0222767
38.330	183	171	0.0182615
38.340	174	173	0.0192901
38.350	183	176	0.0182615
38.360	177	178	0.0187652
38.370	185	181	0.0182615
38.380	173	185	0.0192901
38.390	178	189	0.0187652
38.400	195	193	0.0173130
38.410	195	197	0.0173130
38.420	199	202	0.0168663
38.430	206	207	0.0160231
38.440	208	212	0.0160231
38.450	214	217	0.0156250
38.460	200	222	0.0168663
38.470	211	226	0.0160231
38.480	216	229	0.0156250
38.490	207	231	0.0160231
38.500	215	232	0.0156250
38.510	221	232	0.0152416
38.520	237	231	0.0141723
38.530	219	229	0.0152416
38.540	223	228	0.0148721
38.550	232	226	0.0145159
38.560	225	225	0.0148721
38.570	233	224	0.0145159
38.580	245	224	0.0135208

38.590	242	224	0.0138408
38.600	229	224	0.0145159
38.610	238	225	0.0141723
38.620	230	225	0.0145159
38.630	248	226	0.0135208
38.640	242	227	0.0138408
38.650	243	228	0.0138408
38.660	241	229	0.0138408
38.670	247	230	0.0135208
38.680	252	231	0.0132118
38.690	238	232	0.0138408
38.700	232	234	0.0145159
38.710	242	236	0.0138408
38.720	257	238	0.0129132
38.730	254	241	0.0132118
38.740	245	245	0.0135208
38.750	245	250	0.0135208
38.760	242	256	0.0138408
38.770	245	263	0.0135208
38.780	245	270	0.0135208
38.790	230	273	0.0145159
38.800	235	271	0.0141723
38.810	233	263	0.0141723
38.820	228	253	0.0145159
38.830	216	241	0.0152416
38.840	218	231	0.0152416
38.850	235	223	0.0141723
38.860	219	217	0.0152416
38.870	226	212	0.0145159
38.880	209	208	0.0160231
38.890	229	206	0.0145159
38.900	219	204	0.0152416
38.910	225	204	0.0148721
38.920	229	204	0.0145159
38.930	211	205	0.0156250
38.940	230	207	0.0145159
38.950	236	210	0.0141723
38.960	216	214	0.0152416
38.970	245	220	0.0135208
38.980	252	226	0.0132118
38.990	267	235	0.0123457
39.000	260	244	0.0126247
39.010	299	255	0.0110803
39.020	297	268	0.0110803
39.030	306	280	0.0108507
39.040	332	293	0.0100000
39.050	317	305	0.0104123
39.060	344	316	0.0096117
39.070	318	326	0.0104123
39.080	341	336	0.0096117
39.090	325	347	0.0102030
39.100	333	357	0.0100000
39.110	325	362	0.0102030
39.120	313	355	0.0106281

39.130	301	338	0.0110803
39.140	311	315	0.0106281
39.150	290	293	0.0113173
39.160	286	275	0.0115620
39.170	285	261	0.0115620
39.180	271	250	0.0120758
39.190	272	242	0.0120758
39.200	255	236	0.0129132
39.210	263	231	0.0126247
39.220	241	227	0.0135208
39.230	251	224	0.0132118
39.240	238	222	0.0138408
39.250	234	220	0.0141723
39.260	249	218	0.0132118
39.270	236	217	0.0138408
39.280	230	215	0.0145159
39.290	227	214	0.0145159
39.300	208	213	0.0160231
39.310	223	212	0.0148721
39.320	208	211	0.0160231
39.330	221	211	0.0148721
39.340	204	210	0.0160231
39.350	202	210	0.0164366
39.360	194	209	0.0168663
39.370	194	207	0.0168663
39.380	196	205	0.0168663
39.390	208	202	0.0160231
39.400	197	199	0.0168663
39.410	181	195	0.0182615
39.420	191	191	0.0173130
39.430	186	187	0.0177778
39.440	198	184	0.0164366
39.450	183	181	0.0177778
39.460	183	179	0.0177778
39.470	177	176	0.0187652
39.480	175	175	0.0187652
39.490	182	173	0.0182615
39.500	165	172	0.0198373
39.510	165	171	0.0198373
39.520	179	170	0.0182615
39.530	179	169	0.0182615
39.540	172	169	0.0192901
39.550	162	169	0.0204082
39.560	169	169	0.0192901
39.570	167	170	0.0198373
39.580	167	170	0.0198373
39.590	166	171	0.0198373
39.600	181	172	0.0182615
39.610	190	174	0.0173130
39.620	167	176	0.0198373
39.630	183	178	0.0177778
39.640	172	180	0.0187652
39.650	201	183	0.0164366
39.660	192	187	0.0168663

39.670	184	191	0.0177778
39.680	196	196	0.0168663
39.690	212	201	0.0152416
39.700	200	207	0.0164366
39.710	206	213	0.0160231
39.720	229	219	0.0141723
39.730	206	225	0.0160231
39.740	209	230	0.0156250
39.750	232	234	0.0141723
39.760	202	236	0.0160231
39.770	232	237	0.0141723
39.780	212	235	0.0152416
39.790	206	232	0.0160231
39.800	217	228	0.0148721
39.810	204	223	0.0160231
39.820	218	217	0.0148721
39.830	208	212	0.0156250
39.840	197	207	0.0164366
39.850	193	203	0.0168663
39.860	195	199	0.0168663
39.870	196	196	0.0164366
39.880	195	193	0.0168663
39.890	201	191	0.0164366
39.900	208	190	0.0156250
39.910	201	190	0.0160231
39.920	204	190	0.0160231
39.930	203	191	0.0160231
39.940	212	192	0.0152416
39.950	209	195	0.0156250
39.960	205	198	0.0160231
39.970	214	202	0.0152416
39.980	221	208	0.0148721
39.990	227	215	0.0145159
40.000	237	224	0.0138408
40.010	237	236	0.0138408
40.020	241	249	0.0135208
40.030	230	264	0.0141723
40.040	234	279	0.0138408
40.050	230	290	0.0141723
40.060	230	295	0.0141723
40.070	238	291	0.0138408
40.080	244	280	0.0132118
40.090	225	265	0.0145159
40.100	224	249	0.0145159
40.110	213	234	0.0152416
40.120	200	222	0.0164366
40.130	200	211	0.0164366
40.140	201	203	0.0160231
40.150	212	196	0.0152416
40.160	208	190	0.0156250
40.170	191	186	0.0168663
40.180	178	182	0.0182615
40.190	189	179	0.0173130
40.200	180	176	0.0182615

40.210	189	174	0.0173130
40.220	179	173	0.0182615
40.230	166	172	0.0198373
40.240	175	171	0.0187652
40.250	180	171	0.0182615
40.260	179	171	0.0182615
40.270	174	171	0.0187652
40.280	175	172	0.0187652
40.290	189	172	0.0173130
40.300	168	173	0.0192901
40.310	168	173	0.0192901
40.320	179	173	0.0182615
40.330	168	173	0.0192901
40.340	173	172	0.0187652
40.350	190	172	0.0168663
40.360	164	171	0.0198373
40.370	183	170	0.0177778
40.380	171	170	0.0187652
40.390	165	170	0.0192901
40.400	158	170	0.0204082
40.410	171	171	0.0187652
40.420	173	172	0.0187652
40.430	175	173	0.0182615
40.440	176	174	0.0182615
40.450	194	176	0.0164366
40.460	194	177	0.0164366
40.470	175	179	0.0182615
40.480	194	182	0.0164366
40.490	182	184	0.0177778
40.500	184	186	0.0173130
40.510	190	189	0.0168663
40.520	199	192	0.0160231
40.530	200	194	0.0160231
40.540	200	197	0.0160231
40.550	200	200	0.0160231
40.560	192	203	0.0168663
40.570	201	205	0.0160231
40.580	217	207	0.0148721
40.590	210	209	0.0152416
40.600	215	211	0.0148721
40.610	208	212	0.0156250
40.620	207	212	0.0156250
40.630	214	212	0.0148721
40.640	219	212	0.0145159
40.650	208	211	0.0152416
40.660	205	210	0.0156250
40.670	204	208	0.0156250
40.680	209	206	0.0152416
40.690	212	204	0.0152416
40.700	191	202	0.0168663
40.710	198	201	0.0164366
40.720	200	199	0.0160231
40.730	211	198	0.0152416
40.740	200	197	0.0160231

40.750	207	197	0.0156250
40.760	196	196	0.0164366
40.770	202	196	0.0160231
40.780	202	197	0.0160231
40.790	194	197	0.0164366
40.800	207	199	0.0156250
40.810	218	200	0.0148721
40.820	220	202	0.0145159
40.830	210	204	0.0152416
40.840	229	206	0.0141723
40.850	225	209	0.0141723
40.860	215	211	0.0148721
40.870	222	214	0.0145159
40.880	225	216	0.0145159
40.890	235	219	0.0138408
40.900	237	221	0.0135208
40.910	235	222	0.0138408
40.920	221	223	0.0145159
40.930	214	223	0.0152416
40.940	215	223	0.0148721
40.950	212	222	0.0152416
40.960	222	220	0.0145159
40.970	217	218	0.0148721
40.980	208	216	0.0156250
40.990	208	213	0.0156250
41.000	200	210	0.0160231
41.010	211	206	0.0152416
41.020	195	203	0.0164366
41.030	189	200	0.0168663
41.040	189	197	0.0168663
41.050	205	195	0.0156250
41.060	185	193	0.0173130
41.070	198	191	0.0164366
41.080	203	189	0.0160231
41.090	187	188	0.0173130
41.100	196	187	0.0164366
41.110	200	187	0.0160231
41.120	183	187	0.0173130
41.130	194	188	0.0164366
41.140	206	189	0.0156250
41.150	201	191	0.0160231
41.160	203	194	0.0156250
41.170	204	198	0.0156250
41.180	198	202	0.0160231
41.190	203	207	0.0160231
41.200	236	213	0.0135208
41.210	236	218	0.0135208
41.220	230	224	0.0138408
41.230	218	228	0.0148721
41.240	223	231	0.0145159
41.250	240	232	0.0135208
41.260	219	232	0.0145159
41.270	212	230	0.0152416
41.280	204	228	0.0156250

41.290	204	225	0.0156250
41.300	218	222	0.0148721
41.310	212	218	0.0152416
41.320	212	215	0.0152416
41.330	189	210	0.0168663
41.340	195	206	0.0164366
41.350	201	202	0.0160231
41.360	168	197	0.0187652
41.370	175	193	0.0182615
41.380	188	189	0.0168663
41.390	178	185	0.0177778
41.400	180	182	0.0177778
41.410	177	179	0.0182615
41.420	183	177	0.0173130
41.430	175	175	0.0182615
41.440	183	174	0.0173130
41.450	168	173	0.0187652
41.460	190	172	0.0168663
41.470	176	171	0.0182615
41.480	170	171	0.0187652
41.490	165	172	0.0192901
41.500	165	172	0.0192901
41.510	200	174	0.0156250
41.520	180	175	0.0126247
41.530	196	177	0.0110803
41.540	180	179	0.0244141
41.550	173	182	0.0251953
41.560	189	185	0.0229568
41.570	195	187	0.0222767
41.580	198	190	0.0222767
41.590	185	192	0.0236686
41.600	186	194	0.0236686
41.610	198	194	0.0222767
41.620	192	194	0.0229568
41.630	176	193	0.0251953
41.640	181	191	0.0244141
41.650	196	189	0.0222767
41.660	186	186	0.0236686
41.670	183	184	0.0244141
41.680	177	181	0.0251953
41.690	177	179	0.0251953
41.700	184	177	0.0244141
41.710	171	175	0.0260146
41.720	188	174	0.0236686
41.730	191	173	0.0236686
41.740	194	173	0.0229568
41.750	188	174	0.0236686
41.760	183	175	0.0244141
41.770	188	177	0.0236686
41.780	191	179	0.0236686
41.790	199	183	0.0229568
41.800	194	187	0.0229568
41.810	208	191	0.0216263
41.820	203	196	0.0222767

41.830	199	202	0.0229568
41.840	203	208	0.0222767
41.850	198	213	0.0229568
41.860	223	219	0.0204082
41.870	198	223	0.0229568
41.880	201	227	0.0222767
41.890	201	228	0.0222767
41.900	203	227	0.0222767
41.910	206	223	0.0222767
41.920	194	217	0.0236686
41.930	199	210	0.0229568
41.940	199	202	0.0229568
41.950	190	194	0.0236686
41.960	182	188	0.0251953
41.970	179	182	0.0251953
41.980	182	177	0.0251953
41.990	182	173	0.0251953
42.000	176	170	0.0260146
42.010	175	168	0.0260146
42.020	166	166	0.0277778
42.030	173	165	0.0260146
42.040	183	164	0.0244141
42.050	165	164	0.0277778
42.060	176	163	0.0260146
42.070	164	162	0.0277778
42.080	179	161	0.0251953
42.090	176	160	0.0260146
42.100	160	160	0.0287274
42.110	167	159	0.0268745
42.120	153	159	0.0297265
42.130	170	159	0.0268745
42.140	172	160	0.0268745
42.150	167	160	0.0268745
42.160	163	160	0.0277778
42.170	169	161	0.0268745
42.180	166	161	0.0277778
42.190	164	161	0.0277778
42.200	168	161	0.0268745
42.210	169	161	0.0268745
42.220	152	161	0.0297265
42.230	158	161	0.0287274
42.240	162	160	0.0277778
42.250	165	160	0.0277778
42.260	167	159	0.0268745
42.270	164	159	0.0277778
42.280	166	159	0.0277778
42.290	152	158	0.0297265
42.300	156	158	0.0287274
42.310	160	158	0.0287274
42.320	154	158	0.0297265
42.330	163	159	0.0277778
42.340	155	159	0.0297265
42.350	157	160	0.0287274
42.360	167	160	0.0268745

42.370	170	161	0.0268745
42.380	179	162	0.0251953
42.390	166	164	0.0277778
42.400	171	165	0.0268745
42.410	161	167	0.0277778
42.420	170	170	0.0268745
42.430	169	172	0.0268745
42.440	186	175	0.0244141
42.450	163	178	0.0277778
42.460	180	182	0.0251953
42.470	180	185	0.0251953
42.480	168	188	0.0268745
42.490	178	190	0.0251953
42.500	181	191	0.0251953
42.510	176	190	0.0260146
42.520	164	189	0.0277778
42.530	172	186	0.0260146
42.540	184	183	0.0244141
42.550	185	180	0.0244141
42.560	176	177	0.0260146
42.570	170	174	0.0268745
42.580	176	171	0.0260146
42.590	174	168	0.0260146
42.600	170	166	0.0268745
42.610	175	164	0.0260146
42.620	168	163	0.0268745
42.630	168	161	0.0268745
42.640	168	160	0.0268745
42.650	182	159	0.0251953
42.660	160	159	0.0287274
42.670	154	158	0.0297265
42.680	171	158	0.0268745
42.690	169	158	0.0268745
42.700	166	158	0.0268745
42.710	173	159	0.0260146
42.720	166	159	0.0277778
42.730	160	160	0.0287274
42.740	172	160	0.0260146
42.750	168	161	0.0268745
42.760	162	161	0.0277778
42.770	170	162	0.0268745
42.780	165	162	0.0277778
42.790	163	163	0.0277778
42.800	169	163	0.0268745
42.810	175	163	0.0260146
42.820	173	163	0.0260146
42.830	174	163	0.0260146
42.840	168	163	0.0268745
42.850	164	163	0.0277778
42.860	176	163	0.0260146
42.870	167	163	0.0268745
42.880	174	164	0.0260146
42.890	177	164	0.0260146
42.900	173	165	0.0260146

42.910	169	166	0.0268745
42.920	177	167	0.0260146
42.930	183	169	0.0251953
42.940	183	172	0.0251953
42.950	199	175	0.0229568
42.960	189	178	0.0244141
42.970	195	182	0.0236686
42.980	194	187	0.0236686
42.990	202	193	0.0222767
43.000	202	199	0.0229568
43.010	208	204	0.0222767
43.020	207	209	0.0222767
43.030	193	212	0.0236686
43.040	208	213	0.0222767
43.050	194	211	0.0236686
43.060	199	208	0.0229568
43.070	195	204	0.0236686
43.080	204	201	0.0222767
43.090	192	197	0.0236686
43.100	203	195	0.0222767
43.110	192	193	0.0236686
43.120	202	192	0.0229568
43.130	204	193	0.0222767
43.140	210	195	0.0216263
43.150	202	198	0.0229568
43.160	203	202	0.0229568
43.170	214	207	0.0216263
43.180	213	213	0.0216263
43.190	221	221	0.0210040
43.200	219	229	0.0210040
43.210	236	238	0.0192901
43.220	231	244	0.0198373
43.230	239	249	0.0192901
43.240	236	250	0.0198373
43.250	224	246	0.0204082
43.260	230	240	0.0198373
43.270	225	231	0.0204082
43.280	219	221	0.0210040
43.290	212	212	0.0216263
43.300	200	203	0.0229568
43.310	184	195	0.0251953
43.320	188	188	0.0244141
43.330	180	182	0.0260146
43.340	176	177	0.0260146
43.350	165	173	0.0277778
43.360	170	169	0.0268745
43.370	167	166	0.0277778
43.380	162	164	0.0287274
43.390	157	162	0.0297265
43.400	158	160	0.0297265
43.410	154	159	0.0297265
43.420	160	157	0.0287274
43.430	159	157	0.0287274
43.440	151	156	0.0307787

43.450	142	155	0.0330579
43.460	153	155	0.0307787
43.470	157	155	0.0297265
43.480	145	155	0.0318878
43.490	152	156	0.0307787
43.500	146	156	0.0318878
43.510	156	157	0.0297265
43.520	157	158	0.0297265
43.530	150	159	0.0307787
43.540	157	161	0.0297265
43.550	161	162	0.0287274
43.560	161	164	0.0287274
43.570	156	166	0.0297265
43.580	156	168	0.0297265
43.590	171	170	0.0268745
43.600	160	172	0.0287274
43.610	165	174	0.0277778
43.620	170	174	0.0268745
43.630	160	174	0.0287274
43.640	171	174	0.0268745
43.650	160	173	0.0287274
43.660	172	172	0.0268745
43.670	170	170	0.0277778
43.680	156	169	0.0297265
43.690	172	168	0.0268745
43.700	153	167	0.0297265
43.710	161	166	0.0287274
43.720	165	165	0.0277778
43.730	154	165	0.0297265
43.740	155	164	0.0297265
43.750	162	164	0.0287274
43.760	159	164	0.0287274
43.770	166	165	0.0277778
43.780	166	166	0.0277778
43.790	167	167	0.0277778
43.800	174	168	0.0268745
43.810	173	170	0.0268745
43.820	180	171	0.0260146
43.830	173	174	0.0268745
43.840	184	177	0.0251953
43.850	186	180	0.0244141
43.860	182	183	0.0251953
43.870	195	187	0.0236686
43.880	188	192	0.0244141
43.890	195	196	0.0236686
43.900	198	201	0.0236686
43.910	202	204	0.0229568
43.920	187	207	0.0244141
43.930	199	209	0.0229568
43.940	205	210	0.0222767
43.950	203	210	0.0229568
43.960	197	210	0.0236686
43.970	196	210	0.0236686
43.980	192	209	0.0236686

43.990	196	207	0.0236686
44.000	190	205	0.0244141
44.010	191	202	0.0244141
44.020	180	199	0.0251953
44.030	192	196	0.0236686
44.040	186	192	0.0244141
44.050	193	189	0.0236686
44.060	177	186	0.0260146
44.070	168	182	0.0277778
44.080	171	180	0.0268745
44.090	178	177	0.0260146
44.100	170	174	0.0268745
44.110	163	172	0.0277778
44.120	169	170	0.0268745
44.130	169	168	0.0268745
44.140	161	166	0.0287274
44.150	166	164	0.0277778
44.160	158	162	0.0287274
44.170	173	160	0.0268745
44.180	149	159	0.0307787
44.190	150	157	0.0307787
44.200	141	156	0.0330579
44.210	143	154	0.0318878
44.220	159	153	0.0287274
44.230	145	152	0.0318878
44.240	146	150	0.0318878
44.250	150	149	0.0307787
44.260	148	148	0.0307787
44.270	141	147	0.0330579
44.280	145	146	0.0318878
44.290	144	145	0.0318878
44.300	158	144	0.0287274
44.310	138	143	0.0330579
44.320	143	142	0.0318878
44.330	133	142	0.0342936
44.340	146	141	0.0318878
44.350	139	140	0.0330579
44.360	140	140	0.0330579
44.370	133	140	0.0342936
44.380	140	139	0.0330579
44.390	138	139	0.0330579
44.400	136	139	0.0342936
44.410	134	139	0.0342936
44.420	148	139	0.0307787
44.430	148	139	0.0307787
44.440	137	139	0.0330579
44.450	128	139	0.0355999
44.460	134	139	0.0342936
44.470	133	139	0.0342936
44.480	136	139	0.0342936
44.490	149	139	0.0307787
44.500	142	140	0.0330579
44.510	146	140	0.0318878
44.520	145	140	0.0318878

44.530	144	141	0.0318878
44.540	141	141	0.0330579
44.550	145	142	0.0318878
44.560	151	143	0.0307787
44.570	153	144	0.0297265
44.580	149	145	0.0307787
44.590	149	146	0.0307787
44.600	145	147	0.0318878
44.610	153	148	0.0307787
44.620	158	149	0.0297265
44.630	155	151	0.0297265
44.640	167	152	0.0277778
44.650	163	154	0.0287274
44.660	152	155	0.0307787
44.670	163	157	0.0287274
44.680	164	158	0.0277778
44.690	159	159	0.0287274
44.700	160	159	0.0287274
44.710	154	160	0.0297265
44.720	173	160	0.0268745
44.730	169	161	0.0277778
44.740	151	162	0.0307787
44.750	150	162	0.0307787
44.760	152	162	0.0307787
44.770	160	162	0.0287274
44.780	155	161	0.0297265
44.790	170	159	0.0268745
44.800	155	157	0.0297265
44.810	155	155	0.0297265
44.820	153	153	0.0297265
44.830	154	152	0.0297265
44.840	147	150	0.0318878
44.850	158	149	0.0297265
44.860	163	149	0.0287274
44.870	150	149	0.0307787
44.880	157	149	0.0297265
44.890	160	150	0.0287274
44.900	171	151	0.0268745
44.910	158	153	0.0297265
44.920	160	154	0.0287274
44.930	166	157	0.0277778
44.940	169	159	0.0277778
44.950	167	161	0.0277778
44.960	178	162	0.0260146
44.970	174	163	0.0268745
44.980	170	164	0.0268745
44.990	183	163	0.0251953
45.000	156	162	0.0297265

#===END

data_As80

5. CHEMICAL DATA

_chemical_name_common 'calcium arsenic phosphorus hydroxylapatite'
_chemical_formula_structural 'Ca5 (P0.20 As0.80 O4)3 O H'
_chemical_formula_sum 'As2.40 Ca5 H O13 P0.60'
_chemical_formula_weight 607.8

loop_
_atom_type_symbol
_atom_type_description
_atom_type_scatter_dispersion_real
_atom_type_scatter_dispersion_imag
_atom_type_scatter_source
_atom_type_scatter_length_neutron # include if applicable
? ? ? ? ? ?

#=====

6. POWDER SPECIMEN AND CRYSTAL DATA

_space_group_crystal_system hexagonal
_space_group_name_H-M_alt 'P63/m'

loop_
_symmetry_equiv_pos_site_id
_symmetry_equiv_pos_as_xyz #<--must include 'x,y,z'
1 '-x, -y, -z'
2 '-x, -y, z+1/2'
3 '-x+y, -x, -z+1/2'
4 '-x+y, -x, z'
5 '-y, x-y, -z+1/2'
6 '-y, x-y, z'
7 'y, -x+y, -z'
8 'y, -x+y, z+1/2'
9 'x-y, x, -z'
10 'x-y, x, z+1/2'
11 'x, y, -z+1/2'
12 'x, y, z'

_cell_length_a 9.6758(3)
_cell_length_b 9.6758(3)
_cell_length_c 6.9732(2)
_cell_angle_alpha 90
_cell_angle_beta 90
_cell_angle_gamma 120
_cell_volume 565.37(3)
_cell_measurement_temperature 293
_cell_special_details
; ?
;

The next three fields give the specimen dimensions in mm. The equatorial
plane contains the incident and diffracted beam.

_pd_spec_size_axial 8 # perpendicular to
 # equatorial plane

_pd_spec_size_equat 1 # parallel to
 # scattering vector
 # in transmission

_pd_spec_size_thick 1 # parallel to
 # scattering vector
 # in reflection

The next five fields are character fields that describe the specimen.

_pd_spec_mounting # This field should be
 # used to give details of the
 # container.

;
glass capillary(nominal diameter 1mm)
;

_pd_spec_mount_mode transmission # options are 'reflection'
 # or 'transmission'

_pd_spec_shape cylinder # options are 'cylinder'
 # 'flat_sheet' or 'irregular'

_pd_char_particle_morphology ?
_pd_char_colour white # use ICDD colour descriptions

The next four fields are normally only needed for transmission experiments.

_exptl_absorpt_correction_type none # include if applicable

#=====

7. EXPERIMENTAL DATA

_exptl_special_details
; ?
;

_pd_instr_location
;
X16C, National Synchrotron Light Source, Brookhaven National Laboratory
;

_pd_calibration_special_details # description of the method used
 # to calibrate the instrument

;
NIST standard reference material 1976(sintered plate of Al₂O₃)
7 isolated reflections were used to calibrate wavelength and detector zero.
;

_diffrn_ambient_temperature 293
_diffrn_source synchrotron
_diffrn_source_target ?

```
_diffrn_source_type      ?
_diffrn_radiation_type   synchrotron
_diffrn_measurement_device_type 'Huber diffractometer'
_diffrn_detector         'NaI scintillation counter'
_diffrn_detector_type    ?      # make or model of detector
```

```
_pd_meas_scan_method     step  # options are 'step', 'cont',
                              # 'tof', 'fixed' or
                              # 'disp' (= dispersive)
```

```
_pd_meas_special_details
; ?
;
```

The following six items are used for angular dispersive measurements only.

```
_diffrn_radiation_wavelength 0.69850
_diffrn_radiation_monochromator 'Si(111) double reflection monochromator'
```

The following four items give details of the measured (not processed)
powder pattern. Angles are in degrees.

```
_pd_meas_number_of_points    4301
_pd_meas_2theta_range_min     2.00
_pd_meas_2theta_range_max     45.00
_pd_meas_2theta_range_inc     .01
```

```
#=====
```

8. REFINEMENT DATA

Use the next field to give any special details about the fitting of the
powder pattern.

```
_pd_proc_ls_special_details
;
Rietveld refinement of all structural parameters.
H atom omitted
One common thermal parameter for all atoms
;
```

The next three items are given as text.

```
_pd_proc_ls_profile_function
;
Simple_Axial_Model function in TOPAS
Anisotropic strain broadening 3 parameters refined
;
_pd_proc_ls_background_function
;
Chebyshev polynomial of 7th order plus 1/2theta
;
_pd_proc_ls_pref_orient_corr      'none'
```

```

_pd_proc_ls_prof_R_factor      0.04847
_pd_proc_ls_prof_wR_factor     0.06379
_pd_proc_ls_prof_wR_expected   0.03997
_refine_ls_R_I_factor          ?
_refine_ls_R_Fsqd_factor       ?
_refine_ls_R_factor_all        ?

_refine_special_details
; ?
;

_refine_ls_matrix_type          ?
_refine_ls_weighting_scheme     sigma # options are 'sigma' (based on measured su's)
                                # or 'calc' (calculated weights)
_refine_ls_weighting_details    '1/(sigma*sigma)'
_refine_ls_hydrogen_treatment   none
_refine_ls_extinction_method    'none'
_refine_ls_extinction_coef      ?
_refine_ls_number_parameters    34
_refine_ls_number_restraints    ?
_refine_ls_number_constraints   ?

```

The following item is the same as CHI, the square root of 'CHI squared'

```
_refine_ls_goodness_of_fit_all 1.596
```

```

_refine_ls_restrained_S_all     ?
_refine_ls_shift/su_max         ?
_refine_ls_shift/su_mean        ?

```

The following four items apply to angular dispersive measurements.

2theta minimum, maximum and increment (in degrees) are for the

intensities used in the refinement.

```

_pd_proc_2theta_range_min      2.0
_pd_proc_2theta_range_max      45.0
_pd_proc_2theta_range_inc      0.01
_pd_proc_wavelength            0.69850

```

Each refinement must be accompanied by a listing of the powder data

in CIF format. Each listing should be sent as a separate file consisting

of one data block containing a single powder profile. The value of

`_pd_block_diffraction_id` is used to associate each refinement with

its corresponding powder profile, since it must match the value

of `_pd_block_id` in the file containing the powder data. A template

for supplying powder data in CIF format is available by ftp at

<ftp://ftp.iucr.org/pub/rietdataform.cif> and an example is given

at <ftp://ftp.iucr.org/pub/rietdataxmpl.cif>.

```
_pd_block_diffraction_id      HAP_As80_profile
```

Give appropriate details in the next two text fields.

```
_pd_proc_info_excluded_regions 'none'
```

_pd_proc_info_data_reduction ?

The following items are used to identify the programs used.

_computing_data_collection SPEC
_computing_cell_refinement TOPAS
_computing_data_reduction ?
_computing_structure_solution ?
_computing_structure_refinement TOPAS
_computing_molecular_graphics ?
_computing_publication_material ?

#=====

9. ATOMIC COORDINATES AND DISPLACEMENT PARAMETERS

loop_
_atom_site_label
_atom_site_type_symbol
_atom_site_symmetry_multiplicity
_atom_site_fract_x
_atom_site_fract_y
_atom_site_fract_z
_atom_site_occupancy
_atom_site_B_iso_or_equiv
O1 O 6 0.31603(84) 0.48819(71) 0.25 1 0.765(21)
O2 O 6 0.59366(74) 0.46606(77) 0.25 1 0.765(21)
O3 O 12 0.33941(54) 0.25085(57) 0.05944(61) 1 0.765(21)
As1 As 6 0.39681(17) 0.36909(16) 0.25 0.8015(48) 0.765(21)
P1 P 6 0.39681(17) 0.36909(16) 0.25 0.1985(48) 0.765(21)
Ca1 Ca 4 0.3333333 0.6666667 0.00330(51) 1 0.765(21)
Ca2 Ca 6 0.24625(25) 0.99780(31) 0.25 1 0.765(21)
O4 O 4 0 0 0.6971(19) 0.5 0.765(21)

Note: if the displacement parameters were refined anisotropically
the U matrices should be given as for single-crystal studies.

CIF submission form for powder diffraction data (IUCr journals) ###
Version 11 February 2005 ###
#####

This is an electronic "form" for submitting powder diffraction data in CIF
format to an IUCr journal. The data for each powder profile should be sent
as a separate file consisting of one data block. The value of _pd_block_id
is used to associate each powder profile with a Rietveld refinement, since
it must match the value of _pd_block_diffraction_id in the CIF used to
report the results of the refinement. The current version of the powder
CIF dictionary, which contains definitions of the terms starting _pd_,
may be obtained from <http://www.iucr.org/iucr-top/cif/pd/index.html>.

Note that the query marks '?' are significant as placeholders, and should
 # not be deleted where a data item is not given, UNLESS the accompanying data
 # name is also deleted. Lines should not exceed 80 characters in length. The
 # comments following a hash symbol '#' may be deleted if wished.

data_HAP_As80_pattern

_pd_block_id HAP_As80_pattern

loop_

	_pd_proc_2theta_corrected	_pd_proc_intensity_net	_pd_calc_intensity_net	_pd_proc_ls_weight
2.000	442	454	0.0033412	
2.010	458	451	0.0032283	
2.020	458	448	0.0032283	
2.030	443	446	0.0033412	
2.040	442	443	0.0033412	
2.050	437	440	0.0033802	
2.060	441	438	0.0033412	
2.070	467	435	0.0031562	
2.080	428	432	0.0034602	
2.090	449	430	0.0033029	
2.100	469	427	0.0031562	
2.110	423	425	0.0035013	
2.120	436	422	0.0033802	
2.130	451	420	0.0032653	
2.140	445	417	0.0033029	
2.150	424	415	0.0034602	
2.160	411	412	0.0035856	
2.170	401	410	0.0036731	
2.180	421	408	0.0035013	
2.190	403	405	0.0036731	
2.200	375	403	0.0039063	
2.210	391	401	0.0037638	
2.220	396	399	0.0037180	
2.230	396	396	0.0037180	
2.240	380	394	0.0038579	
2.250	393	392	0.0037638	
2.260	374	390	0.0039555	
2.270	362	388	0.0040570	
2.280	407	386	0.0036290	
2.290	353	383	0.0041623	
2.300	370	381	0.0039555	
2.310	413	379	0.0035431	
2.320	396	377	0.0037180	
2.330	398	375	0.0037180	
2.340	380	373	0.0038579	
2.350	377	371	0.0039063	
2.360	389	369	0.0037638	
2.370	331	367	0.0044444	
2.380	378	366	0.0039063	

2.390	361	364	0.0040570
2.400	365	362	0.0040058
2.410	340	360	0.0043283
2.420	329	358	0.0044444
2.430	350	356	0.0042166
2.440	340	354	0.0043283
2.450	356	353	0.0041091
2.460	332	351	0.0044444
2.470	349	349	0.0042166
2.480	355	347	0.0041623
2.490	332	346	0.0044444
2.500	339	344	0.0043283
2.510	343	342	0.0042719
2.520	357	341	0.0041091
2.530	350	339	0.0042166
2.540	335	337	0.0043858
2.550	328	336	0.0045043
2.560	336	334	0.0043858
2.570	330	332	0.0044444
2.580	332	331	0.0044444
2.590	312	329	0.0046913
2.600	349	328	0.0042166
2.610	307	326	0.0047562
2.620	311	325	0.0046913
2.630	324	323	0.0045043
2.640	309	322	0.0047562
2.650	328	320	0.0044444
2.660	309	319	0.0047562
2.670	300	317	0.0048902
2.680	308	316	0.0047562
2.690	324	314	0.0045043
2.700	320	313	0.0045654
2.710	305	312	0.0048225
2.720	318	310	0.0046277
2.730	315	309	0.0046277
2.740	303	307	0.0048225
2.750	301	306	0.0048902
2.760	321	305	0.0045654
2.770	284	303	0.0051757
2.780	297	302	0.0049593
2.790	291	301	0.0050299
2.800	300	299	0.0048902
2.810	269	298	0.0054066
2.820	291	297	0.0050299
2.830	303	296	0.0048225
2.840	286	294	0.0051020
2.850	250	293	0.0058272
2.860	277	292	0.0052510
2.870	297	291	0.0049593
2.880	288	289	0.0051020
2.890	301	288	0.0048902
2.900	293	287	0.0049593
2.910	283	286	0.0051757
2.920	289	285	0.0050299

2.930	265	284	0.0054870
2.940	293	282	0.0049593
2.950	289	281	0.0050299
2.960	285	280	0.0051020
2.970	287	279	0.0051020
2.980	265	278	0.0054870
2.990	263	277	0.0055692
3.000	270	276	0.0054066
3.010	267	275	0.0054870
3.020	268	273	0.0054870
3.030	251	272	0.0058272
3.040	272	271	0.0053279
3.050	267	270	0.0054870
3.060	282	269	0.0051757
3.070	284	268	0.0051757
3.080	272	267	0.0054066
3.090	268	266	0.0054870
3.100	260	265	0.0056532
3.110	295	264	0.0049593
3.120	264	263	0.0054870
3.130	260	262	0.0055692
3.140	258	261	0.0056532
3.150	267	260	0.0054870
3.160	275	259	0.0053279
3.170	269	258	0.0054066
3.180	254	257	0.0057392
3.190	267	257	0.0054870
3.200	268	256	0.0054870
3.210	230	255	0.0064000
3.220	229	254	0.0064000
3.230	247	253	0.0059172
3.240	280	252	0.0052510
3.250	267	251	0.0054870
3.260	271	250	0.0054066
3.270	256	249	0.0057392
3.280	242	248	0.0060093
3.290	233	248	0.0062988
3.300	241	247	0.0060093
3.310	260	246	0.0055692
3.320	254	245	0.0057392
3.330	254	244	0.0057392
3.340	261	243	0.0055692
3.350	237	243	0.0062000
3.360	224	242	0.0065036
3.370	239	241	0.0061035
3.380	234	240	0.0062000
3.390	227	239	0.0064000
3.400	254	239	0.0057392
3.410	243	238	0.0060093
3.420	237	237	0.0062000
3.430	218	236	0.0067186
3.440	232	235	0.0062988
3.450	237	235	0.0061035
3.460	243	234	0.0060093

3.470	236	233	0.0062000
3.480	217	232	0.0067186
3.490	233	232	0.0062988
3.500	232	231	0.0062988
3.510	228	230	0.0064000
3.520	233	230	0.0062988
3.530	241	229	0.0061035
3.540	224	228	0.0065036
3.550	223	227	0.0065036
3.560	246	227	0.0059172
3.570	232	226	0.0062988
3.580	218	225	0.0067186
3.590	225	225	0.0065036
3.600	213	224	0.0068301
3.610	217	224	0.0067186
3.620	225	223	0.0065036
3.630	236	222	0.0062000
3.640	213	222	0.0068301
3.650	228	221	0.0064000
3.660	239	220	0.0061035
3.670	220	220	0.0066098
3.680	257	219	0.0056532
3.690	216	219	0.0067186
3.700	200	218	0.0073051
3.710	201	218	0.0073051
3.720	205	218	0.0070616
3.730	227	217	0.0064000
3.740	216	216	0.0067186
3.750	232	216	0.0062988
3.760	225	215	0.0065036
3.770	222	215	0.0065036
3.780	218	214	0.0067186
3.790	231	214	0.0062988
3.800	223	213	0.0065036
3.810	240	212	0.0061035
3.820	221	212	0.0066098
3.830	216	211	0.0067186
3.840	215	211	0.0068301
3.850	189	210	0.0076947
3.860	225	210	0.0065036
3.870	211	209	0.0069444
3.880	212	209	0.0068301
3.890	213	208	0.0068301
3.900	213	208	0.0068301
3.910	199	207	0.0073051
3.920	216	207	0.0067186
3.930	210	206	0.0069444
3.940	203	206	0.0071818
3.950	199	205	0.0073051
3.960	209	205	0.0069444
3.970	223	205	0.0065036
3.980	212	204	0.0068301
3.990	212	204	0.0068301
4.000	224	203	0.0065036

4.010	205	203	0.0070616
4.020	209	202	0.0069444
4.030	216	202	0.0067186
4.040	195	202	0.0074316
4.050	183	201	0.0079719
4.060	219	201	0.0066098
4.070	211	200	0.0069444
4.080	197	200	0.0074316
4.090	190	200	0.0076947
4.100	207	199	0.0070616
4.110	212	199	0.0068301
4.120	206	199	0.0070616
4.130	190	198	0.0076947
4.140	195	198	0.0074316
4.150	234	198	0.0062000
4.160	212	197	0.0068301
4.170	199	197	0.0073051
4.180	202	197	0.0071818
4.190	201	196	0.0073051
4.200	204	196	0.0071818
4.210	176	196	0.0082645
4.220	199	196	0.0073051
4.230	174	195	0.0084168
4.240	190	195	0.0076947
4.250	216	195	0.0067186
4.260	221	195	0.0066098
4.270	208	195	0.0069444
4.280	197	195	0.0073051
4.290	213	194	0.0068301
4.300	183	194	0.0079719
4.310	198	194	0.0073051
4.320	194	194	0.0074316
4.330	205	194	0.0070616
4.340	214	194	0.0068301
4.350	181	194	0.0079719
4.360	213	194	0.0068301
4.370	200	195	0.0073051
4.380	193	195	0.0075614
4.390	202	195	0.0071818
4.400	200	195	0.0073051
4.410	191	196	0.0075614
4.420	197	196	0.0074316
4.430	205	197	0.0070616
4.440	189	197	0.0076947
4.450	213	198	0.0068301
4.460	217	199	0.0067186
4.470	240	200	0.0060093
4.480	190	201	0.0076947
4.490	219	203	0.0066098
4.500	237	205	0.0061035
4.510	199	207	0.0073051
4.520	247	210	0.0058272
4.530	225	214	0.0065036
4.540	241	218	0.0060093

4.550	243	224	0.0059172
4.560	255	231	0.0056532
4.570	266	239	0.0054066
4.580	284	250	0.0051020
4.590	261	262	0.0055692
4.600	295	277	0.0048902
4.610	322	293	0.0045043
4.620	334	311	0.0043283
4.630	358	331	0.0040570
4.640	370	353	0.0039063
4.650	392	378	0.0037180
4.660	423	406	0.0034199
4.670	458	437	0.0031562
4.680	491	472	0.0029537
4.690	520	513	0.0027701
4.700	550	559	0.0026298
4.710	603	611	0.0024029
4.720	632	671	0.0022893
4.730	690	737	0.0021042
4.740	738	808	0.0019579
4.750	724	875	0.0019930
4.760	748	917	0.0019237
4.770	722	905	0.0019930
4.780	614	824	0.0023565
4.790	565	701	0.0025508
4.800	520	578	0.0027701
4.810	437	479	0.0033029
4.820	367	407	0.0039555
4.830	337	355	0.0042719
4.840	277	317	0.0051757
4.850	257	290	0.0055692
4.860	264	269	0.0054870
4.870	233	253	0.0062000
4.880	221	241	0.0065036
4.890	216	231	0.0067186
4.900	212	222	0.0068301
4.910	212	216	0.0068301
4.920	210	210	0.0068301
4.930	189	206	0.0075614
4.940	182	202	0.0079719
4.950	189	198	0.0075614
4.960	194	195	0.0074316
4.970	167	193	0.0085734
4.980	173	190	0.0082645
4.990	185	188	0.0078315
5.000	166	186	0.0087344
5.010	152	185	0.0094260
5.020	186	183	0.0076947
5.030	175	182	0.0082645
5.040	182	181	0.0078315
5.050	180	180	0.0079719
5.060	176	179	0.0081162
5.070	191	178	0.0075614
5.080	172	177	0.0084168

5.090	157	176	0.0090703
5.100	164	175	0.0087344
5.110	191	174	0.0075614
5.120	184	174	0.0078315
5.130	185	173	0.0078315
5.140	174	172	0.0082645
5.150	174	172	0.0082645
5.160	175	171	0.0082645
5.170	183	171	0.0078315
5.180	172	170	0.0082645
5.190	182	170	0.0078315
5.200	185	169	0.0076947
5.210	175	169	0.0082645
5.220	156	169	0.0092456
5.230	164	168	0.0087344
5.240	175	168	0.0081162
5.250	160	167	0.0089000
5.260	176	167	0.0081162
5.270	160	167	0.0089000
5.280	167	166	0.0085734
5.290	158	166	0.0090703
5.300	163	166	0.0089000
5.310	173	166	0.0082645
5.320	169	165	0.0084168
5.330	144	165	0.0100000
5.340	160	165	0.0089000
5.350	169	164	0.0084168
5.360	154	164	0.0092456
5.370	156	164	0.0092456
5.380	181	164	0.0079719
5.390	161	164	0.0089000
5.400	159	163	0.0090703
5.410	172	163	0.0082645
5.420	162	163	0.0089000
5.430	160	163	0.0089000
5.440	152	162	0.0094260
5.450	156	162	0.0092456
5.460	180	162	0.0079719
5.470	159	162	0.0090703
5.480	162	162	0.0089000
5.490	155	161	0.0092456
5.500	162	161	0.0089000
5.510	165	161	0.0087344
5.520	162	161	0.0089000
5.530	151	161	0.0094260
5.540	149	161	0.0096117
5.550	158	160	0.0090703
5.560	173	160	0.0082645
5.570	156	160	0.0092456
5.580	144	160	0.0100000
5.590	147	160	0.0098030
5.600	162	160	0.0089000
5.610	180	160	0.0079719
5.620	153	159	0.0094260

5.630	160	159	0.0089000
5.640	164	159	0.0087344
5.650	159	159	0.0090703
5.660	152	159	0.0094260
5.670	155	159	0.0092456
5.680	150	159	0.0096117
5.690	161	159	0.0089000
5.700	155	158	0.0092456
5.710	150	158	0.0096117
5.720	159	158	0.0090703
5.730	165	158	0.0087344
5.740	151	158	0.0096117
5.750	155	158	0.0092456
5.760	152	158	0.0094260
5.770	159	158	0.0090703
5.780	147	157	0.0098030
5.790	159	157	0.0090703
5.800	184	157	0.0078315
5.810	155	157	0.0092456
5.820	163	157	0.0087344
5.830	165	157	0.0087344
5.840	151	156	0.0096117
5.850	168	156	0.0085734
5.860	155	156	0.0092456
5.870	145	156	0.0100000
5.880	138	156	0.0104123
5.890	157	156	0.0092456
5.900	154	156	0.0094260
5.910	165	156	0.0087344
5.920	165	155	0.0087344
5.930	165	155	0.0087344
5.940	144	155	0.0100000
5.950	141	155	0.0102030
5.960	148	155	0.0098030
5.970	162	155	0.0089000
5.980	160	155	0.0090703
5.990	160	155	0.0090703
6.000	146	155	0.0098030
6.010	141	155	0.0102030
6.020	159	155	0.0090703
6.030	172	155	0.0084168
6.040	154	155	0.0094260
6.050	153	155	0.0094260
6.060	153	155	0.0094260
6.070	148	155	0.0098030
6.080	152	155	0.0094260
6.090	149	155	0.0096117
6.100	154	155	0.0094260
6.110	174	155	0.0082645
6.120	146	155	0.0098030
6.130	165	155	0.0087344
6.140	151	155	0.0096117
6.150	147	155	0.0098030
6.160	158	155	0.0090703

6.170	168	154	0.0085734
6.180	156	154	0.0092456
6.190	154	154	0.0094260
6.200	163	154	0.0089000
6.210	160	154	0.0090703
6.220	154	154	0.0094260
6.230	161	154	0.0089000
6.240	149	154	0.0096117
6.250	154	154	0.0094260
6.260	146	154	0.0098030
6.270	147	154	0.0098030
6.280	158	154	0.0090703
6.290	157	154	0.0092456
6.300	164	154	0.0087344
6.310	154	154	0.0094260
6.320	155	154	0.0094260
6.330	161	154	0.0089000
6.340	150	154	0.0096117
6.350	157	154	0.0092456
6.360	158	154	0.0090703
6.370	152	154	0.0094260
6.380	155	154	0.0092456
6.390	155	154	0.0092456
6.400	157	154	0.0092456
6.410	160	154	0.0090703
6.420	155	154	0.0092456
6.430	148	154	0.0098030
6.440	150	154	0.0096117
6.450	159	154	0.0090703
6.460	156	154	0.0092456
6.470	157	154	0.0092456
6.480	155	154	0.0092456
6.490	147	154	0.0098030
6.500	146	154	0.0098030
6.510	150	154	0.0096117
6.520	167	154	0.0085734
6.530	147	155	0.0098030
6.540	154	155	0.0092456
6.550	157	155	0.0092456
6.560	143	155	0.0100000
6.570	172	155	0.0084168
6.580	161	155	0.0089000
6.590	159	155	0.0090703
6.600	141	155	0.0102030
6.610	171	155	0.0084168
6.620	149	155	0.0096117
6.630	159	155	0.0090703
6.640	152	155	0.0094260
6.650	172	155	0.0084168
6.660	157	155	0.0090703
6.670	156	155	0.0092456
6.680	165	155	0.0087344
6.690	145	155	0.0098030
6.700	155	155	0.0092456

6.710	154	155	0.0092456
6.720	183	156	0.0078315
6.730	159	156	0.0090703
6.740	156	156	0.0092456
6.750	156	156	0.0092456
6.760	146	156	0.0098030
6.770	149	156	0.0096117
6.780	177	156	0.0081162
6.790	167	156	0.0085734
6.800	154	156	0.0092456
6.810	171	156	0.0084168
6.820	167	156	0.0085734
6.830	158	156	0.0090703
6.840	146	156	0.0098030
6.850	178	156	0.0079719
6.860	156	157	0.0090703
6.870	168	157	0.0085734
6.880	160	157	0.0089000
6.890	158	157	0.0090703
6.900	152	157	0.0094260
6.910	160	157	0.0089000
6.920	144	157	0.0098030
6.930	165	157	0.0087344
6.940	157	157	0.0090703
6.950	168	157	0.0085734
6.960	163	158	0.0087344
6.970	152	158	0.0094260
6.980	165	158	0.0085734
6.990	173	158	0.0082645
7.000	159	159	0.0089000
7.010	168	159	0.0084168
7.020	161	159	0.0089000
7.030	169	159	0.0084168
7.040	171	159	0.0082645
7.050	168	159	0.0084168
7.060	167	160	0.0085734
7.070	158	160	0.0090703
7.080	177	160	0.0081162
7.090	165	160	0.0085734
7.100	153	160	0.0092456
7.110	147	161	0.0096117
7.120	163	161	0.0087344
7.130	165	161	0.0085734
7.140	159	161	0.0089000
7.150	170	162	0.0084168
7.160	166	162	0.0085734
7.170	171	162	0.0082645
7.180	175	163	0.0081162
7.190	176	163	0.0081162
7.200	170	164	0.0084168
7.210	176	164	0.0081162
7.220	169	165	0.0084168
7.230	168	165	0.0084168
7.240	136	166	0.0104123

7.250	186	167	0.0075614
7.260	166	168	0.0085734
7.270	174	169	0.0081162
7.280	174	170	0.0081162
7.290	172	172	0.0082645
7.300	191	174	0.0074316
7.310	171	176	0.0082645
7.320	196	180	0.0073051
7.330	164	184	0.0085734
7.340	181	190	0.0078315
7.350	213	197	0.0066098
7.360	226	206	0.0062988
7.370	203	216	0.0069444
7.380	254	229	0.0055692
7.390	268	243	0.0052510
7.400	268	260	0.0053279
7.410	306	281	0.0046277
7.420	285	304	0.0049593
7.430	338	332	0.0042166
7.440	317	363	0.0044444
7.450	376	392	0.0037638
7.460	378	408	0.0037638
7.470	390	393	0.0036290
7.480	300	349	0.0046913
7.490	300	299	0.0046913
7.500	265	260	0.0053279
7.510	243	234	0.0058272
7.520	217	216	0.0065036
7.530	195	204	0.0073051
7.540	198	196	0.0071818
7.550	204	190	0.0069444
7.560	180	186	0.0078315
7.570	171	183	0.0082645
7.580	193	180	0.0073051
7.590	188	178	0.0075614
7.600	195	177	0.0071818
7.610	170	175	0.0082645
7.620	179	175	0.0078315
7.630	167	174	0.0084168
7.640	174	173	0.0081162
7.650	145	173	0.0098030
7.660	159	172	0.0089000
7.670	166	172	0.0085734
7.680	155	172	0.0090703
7.690	177	172	0.0079719
7.700	183	172	0.0076947
7.710	160	172	0.0089000
7.720	169	171	0.0084168
7.730	158	172	0.0089000
7.740	163	172	0.0087344
7.750	169	172	0.0084168
7.760	174	172	0.0081162
7.770	163	172	0.0087344
7.780	181	172	0.0078315

7.790	189	172	0.0074316
7.800	163	173	0.0087344
7.810	185	173	0.0076947
7.820	195	173	0.0073051
7.830	176	173	0.0079719
7.840	188	174	0.0074316
7.850	192	174	0.0073051
7.860	159	174	0.0089000
7.870	183	175	0.0076947
7.880	174	175	0.0081162
7.890	156	176	0.0090703
7.900	170	176	0.0082645
7.910	162	177	0.0087344
7.920	176	177	0.0079719
7.930	152	178	0.0092456
7.940	191	179	0.0074316
7.950	174	180	0.0081162
7.960	161	180	0.0087344
7.970	182	181	0.0076947
7.980	189	182	0.0074316
7.990	205	183	0.0069444
8.000	156	185	0.0090703
8.010	205	186	0.0069444
8.020	184	188	0.0076947
8.030	189	189	0.0074316
8.040	190	191	0.0074316
8.050	184	193	0.0076947
8.060	212	196	0.0066098
8.070	188	199	0.0075614
8.080	191	203	0.0074316
8.090	218	207	0.0065036
8.100	200	212	0.0070616
8.110	228	218	0.0062000
8.120	231	225	0.0061035
8.130	229	234	0.0062000
8.140	250	246	0.0056532
8.150	263	260	0.0053279
8.160	307	278	0.0046277
8.170	285	300	0.0049593
8.180	340	326	0.0041623
8.190	350	357	0.0040570
8.200	354	393	0.0039555
8.210	417	435	0.0033802
8.220	474	481	0.0029861
8.230	472	532	0.0029861
8.240	506	585	0.0027995
8.250	510	635	0.0027701
8.260	562	669	0.0025000
8.270	579	674	0.0024267
8.280	562	641	0.0025000
8.290	506	577	0.0027995
8.300	455	503	0.0030864
8.310	422	435	0.0033412
8.320	361	380	0.0039063

8.330	343	338	0.0041091
8.340	298	307	0.0047562
8.350	288	283	0.0048902
8.360	277	265	0.0051020
8.370	243	251	0.0058272
8.380	224	240	0.0062988
8.390	222	231	0.0064000
8.400	213	224	0.0066098
8.410	179	218	0.0078315
8.420	194	214	0.0073051
8.430	211	210	0.0067186
8.440	218	206	0.0065036
8.450	200	204	0.0070616
8.460	194	201	0.0073051
8.470	209	199	0.0067186
8.480	215	198	0.0066098
8.490	192	196	0.0073051
8.500	210	195	0.0067186
8.510	197	194	0.0071818
8.520	179	193	0.0078315
8.530	199	192	0.0070616
8.540	197	191	0.0071818
8.550	222	191	0.0064000
8.560	208	190	0.0068301
8.570	182	190	0.0078315
8.580	199	189	0.0070616
8.590	209	189	0.0067186
8.600	208	189	0.0068301
8.610	167	189	0.0084168
8.620	180	188	0.0078315
8.630	181	188	0.0078315
8.640	179	188	0.0078315
8.650	204	188	0.0069444
8.660	198	188	0.0070616
8.670	184	188	0.0076947
8.680	186	188	0.0075614
8.690	197	188	0.0071818
8.700	191	188	0.0074316
8.710	187	188	0.0075614
8.720	170	188	0.0082645
8.730	189	188	0.0074316
8.740	177	188	0.0079719
8.750	204	188	0.0069444
8.760	192	188	0.0073051
8.770	194	188	0.0073051
8.780	216	188	0.0065036
8.790	204	188	0.0069444
8.800	211	188	0.0067186
8.810	195	188	0.0071818
8.820	202	188	0.0069444
8.830	206	188	0.0068301
8.840	198	189	0.0070616
8.850	213	189	0.0066098
8.860	192	189	0.0073051

8.870	193	189	0.0073051
8.880	196	189	0.0071818
8.890	203	190	0.0069444
8.900	196	190	0.0071818
8.910	203	191	0.0069444
8.920	183	192	0.0076947
8.930	228	192	0.0062000
8.940	191	192	0.0073051
8.950	223	193	0.0062988
8.960	191	193	0.0074316
8.970	193	193	0.0073051
8.980	179	193	0.0078315
8.990	184	194	0.0076947
9.000	202	194	0.0069444
9.010	175	194	0.0079719
9.020	217	194	0.0065036
9.030	181	195	0.0078315
9.040	213	195	0.0066098
9.050	201	195	0.0069444
9.060	193	195	0.0073051
9.070	215	196	0.0065036
9.080	202	196	0.0069444
9.090	212	196	0.0066098
9.100	202	196	0.0069444
9.110	214	197	0.0065036
9.120	179	197	0.0078315
9.130	219	197	0.0064000
9.140	214	197	0.0066098
9.150	217	198	0.0065036
9.160	215	198	0.0065036
9.170	195	198	0.0071818
9.180	204	199	0.0068301
9.190	223	199	0.0062988
9.200	216	199	0.0065036
9.210	215	200	0.0065036
9.220	208	200	0.0067186
9.230	219	200	0.0064000
9.240	199	201	0.0070616
9.250	196	201	0.0071818
9.260	208	201	0.0067186
9.270	202	202	0.0069444
9.280	191	202	0.0073051
9.290	216	202	0.0065036
9.300	206	203	0.0068301
9.310	234	203	0.0060093
9.320	207	204	0.0067186
9.330	218	204	0.0064000
9.340	209	204	0.0067186
9.350	228	205	0.0061035
9.360	204	205	0.0068301
9.370	203	206	0.0069444
9.380	209	206	0.0067186
9.390	208	207	0.0067186
9.400	212	207	0.0066098

9.410	227	208	0.0062000
9.420	194	209	0.0071818
9.430	208	209	0.0067186
9.440	233	210	0.0060093
9.450	220	211	0.0064000
9.460	217	212	0.0065036
9.470	213	213	0.0066098
9.480	216	214	0.0065036
9.490	225	215	0.0062000
9.500	231	217	0.0060093
9.510	221	218	0.0062988
9.520	210	220	0.0066098
9.530	215	221	0.0065036
9.540	211	223	0.0066098
9.550	213	224	0.0066098
9.560	231	224	0.0060093
9.570	241	224	0.0058272
9.580	215	223	0.0065036
9.590	246	223	0.0056532
9.600	232	222	0.0060093
9.610	239	222	0.0058272
9.620	234	223	0.0060093
9.630	246	223	0.0056532
9.640	205	224	0.0068301
9.650	232	224	0.0060093
9.660	249	225	0.0055692
9.670	243	226	0.0057392
9.680	242	227	0.0057392
9.690	223	229	0.0062988
9.700	271	230	0.0051757
9.710	236	232	0.0059172
9.720	251	233	0.0055692
9.730	230	235	0.0061035
9.740	222	237	0.0062988
9.750	238	239	0.0058272
9.760	238	242	0.0058272
9.770	262	244	0.0053279
9.780	247	247	0.0056532
9.790	255	250	0.0054870
9.800	252	254	0.0054870
9.810	253	257	0.0054870
9.820	250	262	0.0055692
9.830	262	267	0.0053279
9.840	281	272	0.0049593
9.850	279	279	0.0049593
9.860	313	286	0.0044444
9.870	284	294	0.0048902
9.880	296	304	0.0046913
9.890	321	316	0.0043283
9.900	312	329	0.0044444
9.910	344	346	0.0040570
9.920	361	366	0.0038579
9.930	401	390	0.0034602
9.940	447	421	0.0031210

9.950	479	460	0.0028905
9.960	520	511	0.0026846
9.970	613	576	0.0022676
9.980	707	661	0.0019753
9.990	823	769	0.0016935
10.000	973	903	0.0039555
10.010	1077	1064	0.0022893
10.020	1290	1255	0.0019237
10.030	1509	1474	0.0016391
10.040	1754	1716	0.0014133
10.050	1881	1961	0.0013127
10.060	2083	2164	0.0011891
10.070	2049	2247	0.0012056
10.080	2003	2143	0.0012311
10.090	1784	1871	0.0013820
10.100	1557	1537	0.0015873
10.110	1267	1235	0.0019579
10.120	1030	1000	0.0024029
10.130	850	826	0.0029218
10.140	733	698	0.0033802
10.150	591	605	0.0041623
10.160	522	535	0.0047562
10.170	467	482	0.0052510
10.180	423	440	0.0058272
10.190	394	408	0.0062988
10.200	367	382	0.0067186
10.210	333	361	0.0074316
10.220	327	344	0.0075614
10.230	310	329	0.0079719
10.240	326	317	0.0075614
10.250	299	307	0.0082645
10.260	287	299	0.0085734
10.270	285	291	0.0085734
10.280	278	285	0.0089000
10.290	286	280	0.0085734
10.300	266	275	0.0092456
10.310	250	270	0.0098030
10.320	272	267	0.0090703
10.330	265	263	0.0092456
10.340	257	260	0.0096117
10.350	272	258	0.0090703
10.360	240	256	0.0102030
10.370	259	253	0.0096117
10.380	257	252	0.0096117
10.390	259	250	0.0094260
10.400	255	248	0.0096117
10.410	251	247	0.0098030
10.420	254	246	0.0096117
10.430	265	244	0.0092456
10.440	243	243	0.0102030
10.450	228	243	0.0108507
10.460	250	242	0.0098030
10.470	262	241	0.0094260
10.480	254	240	0.0096117

10.490	244	239	0.0102030
10.500	242	239	0.0102030
10.510	243	238	0.0102030
10.520	270	238	0.0090703
10.530	261	237	0.0094260
10.540	241	237	0.0102030
10.550	257	237	0.0096117
10.560	242	236	0.0102030
10.570	224	236	0.0110803
10.580	233	236	0.0106281
10.590	247	236	0.0100000
10.600	230	236	0.0106281
10.610	238	236	0.0104123
10.620	240	236	0.0102030
10.630	253	238	0.0098030
10.640	251	238	0.0098030
10.650	255	238	0.0096117
10.660	256	238	0.0096117
10.670	229	238	0.0108507
10.680	242	238	0.0102030
10.690	213	238	0.0115620
10.700	227	238	0.0108507
10.710	249	238	0.0098030
10.720	232	238	0.0106281
10.730	242	238	0.0102030
10.740	242	238	0.0102030
10.750	268	238	0.0092456
10.760	247	238	0.0100000
10.770	228	239	0.0108507
10.780	254	239	0.0096117
10.790	258	239	0.0096117
10.800	247	239	0.0100000
10.810	249	239	0.0098030
10.820	228	240	0.0108507
10.830	250	240	0.0098030
10.840	231	240	0.0106281
10.850	241	241	0.0102030
10.860	240	241	0.0102030
10.870	235	242	0.0104123
10.880	249	242	0.0100000
10.890	228	243	0.0108507
10.900	253	243	0.0098030
10.910	253	244	0.0098030
10.920	253	245	0.0098030
10.930	247	245	0.0100000
10.940	235	246	0.0104123
10.950	244	247	0.0100000
10.960	258	248	0.0096117
10.970	260	250	0.0094260
10.980	261	251	0.0094260
10.990	262	253	0.0094260
11.000	257	255	0.0096117
11.010	260	257	0.0094260
11.020	255	260	0.0096117

11.030	268	264	0.0092456
11.040	267	268	0.0092456
11.050	267	274	0.0092456
11.060	298	281	0.0082645
11.070	296	290	0.0082645
11.080	310	301	0.0079719
11.090	324	315	0.0075614
11.100	356	331	0.0069444
11.110	335	350	0.0073051
11.120	360	370	0.0068301
11.130	394	390	0.0062000
11.140	406	407	0.0060093
11.150	393	414	0.0062000
11.160	384	408	0.0064000
11.170	393	390	0.0062000
11.180	366	367	0.0067186
11.190	353	346	0.0069444
11.200	319	329	0.0076947
11.210	290	317	0.0084168
11.220	297	309	0.0082645
11.230	290	303	0.0084168
11.240	292	299	0.0084168
11.250	298	298	0.0082645
11.260	298	298	0.0082645
11.270	292	300	0.0084168
11.280	299	303	0.0082645
11.290	271	308	0.0090703
11.300	296	313	0.0082645
11.310	278	321	0.0089000
11.320	287	330	0.0085734
11.330	305	342	0.0079719
11.340	307	357	0.0079719
11.350	328	375	0.0074316
11.360	316	399	0.0076947
11.370	328	430	0.0074316
11.380	379	472	0.0065036
11.390	448	528	0.0054870
11.400	535	608	0.0045654
11.410	669	718	0.0036731
11.420	802	868	0.0030524
11.430	1011	1063	0.0024267
11.440	1245	1307	0.0019579
11.450	1545	1605	0.0015747
11.460	2001	1960	0.0012226
11.470	2577	2351	0.0009467
11.480	3328	2697	0.0007344
11.490	3844	2811	0.0006345
11.500	3116	2530	0.0007803
11.510	2035	1993	0.0011973
11.520	1291	1486	0.0018904
11.530	972	1120	0.0025000
11.540	762	878	0.0031919
11.550	578	717	0.0042166
11.560	488	607	0.0049593

11.570	447	530	0.0054066
11.580	378	474	0.0064000
11.590	364	432	0.0067186
11.600	341	400	0.0071818
11.610	314	375	0.0076947
11.620	312	356	0.0078315
11.630	319	340	0.0075614
11.640	310	327	0.0078315
11.650	301	316	0.0081162
11.660	298	307	0.0081162
11.670	271	299	0.0089000
11.680	282	293	0.0085734
11.690	272	287	0.0089000
11.700	281	282	0.0085734
11.710	262	278	0.0092456
11.720	261	274	0.0092456
11.730	275	271	0.0087344
11.740	265	268	0.0090703
11.750	277	265	0.0087344
11.760	264	263	0.0090703
11.770	254	261	0.0094260
11.780	258	259	0.0094260
11.790	258	257	0.0094260
11.800	258	256	0.0094260
11.810	240	254	0.0100000
11.820	243	253	0.0100000
11.830	242	252	0.0100000
11.840	268	251	0.0090703
11.850	247	250	0.0098030
11.860	248	249	0.0098030
11.870	246	248	0.0098030
11.880	257	247	0.0094260
11.890	254	247	0.0096117
11.900	257	246	0.0094260
11.910	252	245	0.0096117
11.920	249	245	0.0096117
11.930	237	244	0.0102030
11.940	233	244	0.0104123
11.950	261	243	0.0092456
11.960	259	243	0.0092456
11.970	254	243	0.0094260
11.980	234	242	0.0104123
11.990	245	242	0.0098030
12.000	252	241	0.0096117
12.010	244	241	0.0100000
12.020	240	241	0.0100000
12.030	252	241	0.0096117
12.040	249	240	0.0096117
12.050	260	240	0.0092456
12.060	245	240	0.0098030
12.070	241	240	0.0100000
12.080	242	240	0.0100000
12.090	235	240	0.0102030
12.100	240	239	0.0100000

12.110	234	239	0.0102030
12.120	231	239	0.0104123
12.130	254	239	0.0094260
12.140	242	239	0.0100000
12.150	253	239	0.0096117
12.160	238	239	0.0102030
12.170	237	239	0.0102030
12.180	255	239	0.0094260
12.190	259	240	0.0092456
12.200	250	240	0.0096117
12.210	246	240	0.0098030
12.220	259	240	0.0094260
12.230	256	240	0.0094260
12.240	237	241	0.0102030
12.250	236	241	0.0102030
12.260	239	242	0.0102030
12.270	245	242	0.0098030
12.280	248	243	0.0098030
12.290	253	244	0.0096117
12.300	254	244	0.0094260
12.310	232	246	0.0104123
12.320	259	247	0.0092456
12.330	242	248	0.0100000
12.340	259	250	0.0094260
12.350	252	252	0.0096117
12.360	245	255	0.0098030
12.370	249	259	0.0098030
12.380	280	265	0.0085734
12.390	280	272	0.0085734
12.400	292	281	0.0082645
12.410	280	293	0.0085734
12.420	321	305	0.0075614
12.430	324	319	0.0074316
12.440	334	330	0.0071818
12.450	366	336	0.0066098
12.460	361	333	0.0067186
12.470	332	323	0.0073051
12.480	323	314	0.0074316
12.490	341	308	0.0070616
12.500	322	306	0.0075614
12.510	319	308	0.0075614
12.520	312	313	0.0076947
12.530	325	322	0.0074316
12.540	346	333	0.0069444
12.550	351	349	0.0068301
12.560	372	369	0.0065036
12.570	419	395	0.0057392
12.580	449	427	0.0054066
12.590	490	466	0.0048902
12.600	498	512	0.0048225
12.610	577	564	0.0041623
12.620	622	618	0.0038579
12.630	649	669	0.0035013
12.640	725	708	0.0024267

12.650	708	723	0.0039555
12.660	715	709	0.0039063
12.670	685	666	0.0040570
12.680	622	607	0.0044444
12.690	588	545	0.0046913
12.700	493	489	0.0055692
12.710	463	442	0.0059172
12.720	433	405	0.0062988
12.730	397	375	0.0069444
12.740	386	351	0.0070616
12.750	368	332	0.0074316
12.760	316	317	0.0085734
12.770	337	305	0.0081162
12.780	305	295	0.0089000
12.790	298	287	0.0090703
12.800	277	280	0.0098030
12.810	271	274	0.0100000
12.820	282	269	0.0096117
12.830	288	265	0.0094260
12.840	278	262	0.0098030
12.850	273	259	0.0098030
12.860	270	256	0.0100000
12.870	269	254	0.0100000
12.880	269	252	0.0100000
12.890	259	250	0.0104123
12.900	275	248	0.0098030
12.910	235	247	0.0113173
12.920	239	246	0.0110803
12.930	248	245	0.0108507
12.940	243	244	0.0110803
12.950	242	243	0.0110803
12.960	253	242	0.0106281
12.970	258	241	0.0104123
12.980	263	241	0.0102030
12.990	244	240	0.0108507
13.000	245	240	0.0108507
13.010	254	239	0.0104123
13.020	242	239	0.0110803
13.030	251	239	0.0106281
13.040	258	238	0.0102030
13.050	245	238	0.0102030
13.060	225	238	0.0067186
13.070	246	238	0.0062000
13.080	237	238	0.0064000
13.090	223	237	0.0068301
13.100	255	237	0.0059172
13.110	239	237	0.0062988
13.120	197	237	0.0076947
13.130	235	237	0.0065036
13.140	250	238	0.0061035
13.150	242	238	0.0062988
13.160	256	238	0.0059172
13.170	245	239	0.0062000
13.180	228	241	0.0066098

13.190	248	241	0.0061035
13.200	236	242	0.0064000
13.210	252	242	0.0060093
13.220	232	242	0.0065036
13.230	246	243	0.0062000
13.240	262	243	0.0057392
13.250	258	244	0.0058272
13.260	257	244	0.0059172
13.270	265	245	0.0057392
13.280	283	246	0.0053279
13.290	253	246	0.0060093
13.300	255	247	0.0059172
13.310	264	248	0.0057392
13.320	246	249	0.0061035
13.330	244	250	0.0062000
13.340	266	251	0.0056532
13.350	270	252	0.0055692
13.360	268	253	0.0056532
13.370	266	254	0.0056532
13.380	255	255	0.0059172
13.390	271	256	0.0055692
13.400	250	258	0.0060093
13.410	254	260	0.0059172
13.420	259	261	0.0058272
13.430	283	263	0.0053279
13.440	242	265	0.0062000
13.450	256	267	0.0059172
13.460	245	269	0.0061035
13.470	304	271	0.0049593
13.480	246	274	0.0061035
13.490	271	277	0.0055692
13.500	284	280	0.0053279
13.510	271	283	0.0055692
13.520	285	286	0.0052510
13.530	301	290	0.0050299
13.540	287	294	0.0052510
13.550	294	299	0.0051020
13.560	280	303	0.0054066
13.570	274	309	0.0054870
13.580	283	314	0.0053279
13.590	313	321	0.0047562
13.600	316	327	0.0047562
13.610	330	335	0.0045654
13.620	326	343	0.0046277
13.630	340	353	0.0043858
13.640	347	363	0.0043283
13.650	362	375	0.0041623
13.660	359	388	0.0041623
13.670	347	402	0.0043283
13.680	397	419	0.0037638
13.690	423	438	0.0035431
13.700	425	459	0.0035013
13.710	446	484	0.0033412
13.720	446	513	0.0033412

13.730	466	547	0.0031919
13.740	512	586	0.0029218
13.750	583	633	0.0025508
13.760	609	689	0.0024507
13.770	721	758	0.0020661
13.780	784	841	0.0019069
13.790	877	944	0.0017075
13.800	1066	1073	0.0014027
13.810	1227	1235	0.0012140
13.820	1525	1441	0.0009766
13.830	1781	1701	0.0008353
13.840	2063	2023	0.0007226
13.850	2519	2415	0.0005920
13.860	2928	2869	0.0005096
13.870	3479	3364	0.0004287
13.880	3866	3851	0.0003860
13.890	4232	4248	0.0003520
13.900	4379	4445	0.0003404
13.910	4200	4357	0.0003547
13.920	3896	3996	0.0003830
13.930	3507	3472	0.0004251
13.940	2928	2921	0.0005096
13.950	2572	2430	0.0005806
13.960	2113	2029	0.0007036
13.970	1794	1716	0.0008305
13.980	1527	1476	0.0009766
13.990	1345	1292	0.0011111
14.000	1144	1152	0.0013033
14.010	1031	1046	0.0014457
14.020	984	968	0.0015140
14.030	912	911	0.0016391
14.040	843	873	0.0017654
14.050	820	852	0.0018108
14.060	791	848	0.0018740
14.070	835	863	0.0017803
14.080	861	898	0.0017217
14.090	969	960	0.0015379
14.100	1082	1058	0.0013717
14.110	1252	1202	0.0011891
14.120	1429	1404	0.0010406
14.130	1762	1672	0.0008451
14.140	2058	2008	0.0007226
14.150	2493	2399	0.0005978
14.160	2797	2800	0.0005334
14.170	3095	3100	0.0004809
14.180	3083	3132	0.0004830
14.190	2884	2830	0.0005165
14.200	2383	2355	0.0006250
14.210	1980	1917	0.0007506
14.220	1724	1600	0.0008651
14.230	1472	1395	0.0010078
14.240	1311	1277	0.0011337
14.250	1285	1223	0.0011569
14.260	1232	1220	0.0012056

14.270	1280	1261	0.0011648
14.280	1383	1345	0.0010750
14.290	1440	1470	0.0010339
14.300	1685	1635	0.0008805
14.310	1872	1836	0.0007935
14.320	2043	2059	0.0007305
14.330	2317	2282	0.0006409
14.340	2458	2469	0.0006067
14.350	2507	2575	0.0005949
14.360	2541	2562	0.0005863
14.370	2439	2422	0.0006097
14.380	2211	2187	0.0006747
14.390	1963	1911	0.0007589
14.400	1675	1642	0.0008911
14.410	1474	1404	0.0010078
14.420	1259	1205	0.0011809
14.430	1125	1044	0.0013223
14.440	977	915	0.0015259
14.450	815	810	0.0018263
14.460	764	726	0.0019407
14.470	708	657	0.0021042
14.480	577	601	0.0025767
14.490	582	554	0.0025508
14.500	560	515	0.0026570
14.510	460	483	0.0032283
14.520	449	455	0.0033029
14.530	413	431	0.0035856
14.540	392	410	0.0038104
14.550	375	392	0.0039555
14.560	370	376	0.0040058
14.570	391	363	0.0038104
14.580	355	351	0.0042166
14.590	335	340	0.0044444
14.600	310	331	0.0048225
14.610	314	323	0.0047562
14.620	320	315	0.0046277
14.630	302	309	0.0049593
14.640	273	303	0.0054870
14.650	299	298	0.0049593
14.660	281	293	0.0053279
14.670	261	289	0.0057392
14.680	265	286	0.0056532
14.690	274	283	0.0054066
14.700	270	281	0.0054870
14.710	266	279	0.0055692
14.720	267	277	0.0055692
14.730	248	276	0.0060093
14.740	297	276	0.0050299
14.750	265	276	0.0056532
14.760	278	277	0.0053279
14.770	276	279	0.0054066
14.780	257	282	0.0058272
14.790	282	285	0.0052510
14.800	279	290	0.0053279

14.810	322	296	0.0046277
14.820	298	304	0.0050299
14.830	314	315	0.0047562
14.840	333	328	0.0045043
14.850	367	346	0.0040570
14.860	370	369	0.0040058
14.870	446	401	0.0033412
14.880	462	443	0.0032283
14.890	532	503	0.0027995
14.900	650	585	0.0022893
14.910	821	699	0.0018108
14.920	847	851	0.0017654
14.930	1140	1044	0.0013033
14.940	1304	1270	0.0011413
14.950	1512	1507	0.0009889
14.960	1640	1693	0.0009072
14.970	1554	1725	0.0009585
14.980	1466	1554	0.0010142
14.990	1180	1265	0.0012664
15.000	963	989	0.0015500
15.010	845	780	0.0017654
15.020	670	633	0.0022250
15.030	576	530	0.0025767
15.040	474	458	0.0031562
15.050	445	406	0.0033412
15.060	377	367	0.0039555
15.070	343	337	0.0043283
15.080	306	315	0.0048902
15.090	302	297	0.0048902
15.100	315	282	0.0046913
15.110	290	271	0.0051020
15.120	283	261	0.0052510
15.130	241	253	0.0062000
15.140	249	246	0.0060093
15.150	250	240	0.0059172
15.160	231	235	0.0064000
15.170	206	230	0.0071818
15.180	213	226	0.0069444
15.190	219	222	0.0068301
15.200	207	218	0.0071818
15.210	223	216	0.0066098
15.220	223	214	0.0067186
15.230	205	212	0.0073051
15.240	215	211	0.0069444
15.250	216	210	0.0068301
15.260	212	209	0.0069444
15.270	183	208	0.0081162
15.280	220	208	0.0067186
15.290	198	208	0.0074316
15.300	197	208	0.0075614
15.310	205	208	0.0071818
15.320	224	209	0.0066098
15.330	219	211	0.0068301
15.340	221	213	0.0067186

15.350	232	215	0.0064000
15.360	203	218	0.0073051
15.370	244	222	0.0061035
15.380	244	227	0.0061035
15.390	244	235	0.0061035
15.400	219	246	0.0067186
15.410	262	259	0.0056532
15.420	266	275	0.0055692
15.430	295	294	0.0050299
15.440	327	314	0.0045043
15.450	347	334	0.0042719
15.460	352	350	0.0042166
15.470	342	357	0.0043283
15.480	355	352	0.0041623
15.490	342	337	0.0043283
15.500	309	315	0.0047562
15.510	309	292	0.0047562
15.520	289	271	0.0051020
15.530	266	253	0.0055692
15.540	248	238	0.0059172
15.550	233	226	0.0062988
15.560	246	217	0.0060093
15.570	232	209	0.0064000
15.580	190	203	0.0076947
15.590	216	198	0.0068301
15.600	203	194	0.0073051
15.610	191	191	0.0076947
15.620	210	188	0.0070616
15.630	201	186	0.0073051
15.640	172	183	0.0085734
15.650	182	182	0.0081162
15.660	194	180	0.0075614
15.670	177	179	0.0084168
15.680	178	177	0.0082645
15.690	179	176	0.0082645
15.700	180	175	0.0081162
15.710	190	174	0.0076947
15.720	175	173	0.0084168
15.730	191	172	0.0076947
15.740	188	172	0.0078315
15.750	188	171	0.0078315
15.760	167	170	0.0087344
15.770	169	170	0.0087344
15.780	171	169	0.0085734
15.790	176	169	0.0084168
15.800	177	168	0.0082645
15.810	161	168	0.0090703
15.820	152	167	0.0096117
15.830	151	167	0.0098030
15.840	171	166	0.0085734
15.850	166	166	0.0089000
15.860	148	166	0.0100000
15.870	165	166	0.0089000
15.880	168	165	0.0087344

15.890	159	165	0.0092456
15.900	147	165	0.0100000
15.910	165	164	0.0089000
15.920	164	164	0.0089000
15.930	180	164	0.0081162
15.940	169	163	0.0087344
15.950	178	163	0.0082645
15.960	165	162	0.0089000
15.970	159	161	0.0092456
15.980	175	161	0.0084168
15.990	170	160	0.0085734
16.000	147	160	0.0100000
16.010	168	159	0.0087344
16.020	153	158	0.0096117
16.030	164	157	0.0089000
16.040	161	157	0.0090703
16.050	162	157	0.0090703
16.060	154	157	0.0094260
16.070	179	157	0.0081162
16.080	156	157	0.0094260
16.090	156	156	0.0094260
16.100	149	156	0.0098030
16.110	172	156	0.0084168
16.120	167	156	0.0087344
16.130	142	156	0.0102030
16.140	167	156	0.0087344
16.150	155	156	0.0094260
16.160	154	156	0.0094260
16.170	147	155	0.0100000
16.180	174	155	0.0084168
16.190	154	155	0.0094260
16.200	159	155	0.0090703
16.210	158	155	0.0092456
16.220	167	155	0.0087344
16.230	135	155	0.0108507
16.240	164	155	0.0089000
16.250	154	155	0.0094260
16.260	179	154	0.0081162
16.270	165	154	0.0089000
16.280	160	154	0.0090703
16.290	152	154	0.0096117
16.300	154	154	0.0094260
16.310	145	154	0.0100000
16.320	157	154	0.0092456
16.330	162	154	0.0089000
16.340	157	154	0.0092456
16.350	157	154	0.0092456
16.360	146	154	0.0100000
16.370	150	154	0.0098030
16.380	142	153	0.0102030
16.390	157	153	0.0092456
16.400	174	153	0.0084168
16.410	137	153	0.0106281
16.420	171	153	0.0085734

16.430	142	153	0.0102030
16.440	146	153	0.0100000
16.450	142	153	0.0102030
16.460	135	154	0.0108507
16.470	150	154	0.0096117
16.480	165	154	0.0087344
16.490	160	154	0.0090703
16.500	134	154	0.0108507
16.510	156	154	0.0092456
16.520	148	154	0.0098030
16.530	164	154	0.0089000
16.540	151	155	0.0096117
16.550	170	155	0.0085734
16.560	166	155	0.0087344
16.570	149	155	0.0098030
16.580	156	156	0.0094260
16.590	167	156	0.0087344
16.600	156	156	0.0094260
16.610	164	155	0.0089000
16.620	167	155	0.0087344
16.630	146	155	0.0100000
16.640	164	155	0.0089000
16.650	148	155	0.0098030
16.660	134	154	0.0108507
16.670	138	154	0.0104123
16.680	142	154	0.0102030
16.690	139	154	0.0104123
16.700	168	154	0.0087344
16.710	145	154	0.0100000
16.720	155	154	0.0094260
16.730	150	154	0.0096117
16.740	135	154	0.0108507
16.750	143	155	0.0102030
16.760	136	155	0.0106281
16.770	128	155	0.0113173
16.780	138	155	0.0104123
16.790	156	155	0.0092456
16.800	143	155	0.0102030
16.810	158	156	0.0092456
16.820	156	156	0.0092456
16.830	152	156	0.0096117
16.840	174	157	0.0084168
16.850	141	157	0.0102030
16.860	146	157	0.0100000
16.870	148	158	0.0098030
16.880	138	158	0.0106281
16.890	151	159	0.0096117
16.900	153	159	0.0094260
16.910	160	160	0.0090703
16.920	162	161	0.0090703
16.930	151	162	0.0096117
16.940	145	162	0.0100000
16.950	144	163	0.0102030
16.960	160	164	0.0090703

16.970	152	166	0.0096117
16.980	168	167	0.0087344
16.990	158	169	0.0092456
17.000	142	171	0.0102030
17.010	162	173	0.0089000
17.020	162	175	0.0090703
17.030	157	178	0.0092456
17.040	166	181	0.0087344
17.050	157	186	0.0092456
17.060	174	191	0.0084168
17.070	201	197	0.0073051
17.080	181	205	0.0079719
17.090	226	215	0.0064000
17.100	211	225	0.0069444
17.110	232	236	0.0062988
17.120	245	246	0.0059172
17.130	241	253	0.0060093
17.140	231	256	0.0062988
17.150	270	259	0.0054066
17.160	250	262	0.0058272
17.170	258	269	0.0056532
17.180	256	280	0.0056532
17.190	291	296	0.0050299
17.200	292	317	0.0049593
17.210	350	343	0.0041623
17.220	371	375	0.0039063
17.230	413	412	0.0035431
17.240	505	452	0.0028905
17.250	482	491	0.0030190
17.260	560	524	0.0026031
17.270	562	545	0.0026031
17.280	599	547	0.0024267
17.290	537	531	0.0027127
17.300	531	498	0.0027412
17.310	499	458	0.0029218
17.320	421	417	0.0034602
17.330	427	379	0.0034199
17.340	385	346	0.0037638
17.350	338	319	0.0043283
17.360	319	298	0.0045654
17.370	274	281	0.0053279
17.380	275	267	0.0053279
17.390	259	257	0.0056532
17.400	238	250	0.0061035
17.410	220	245	0.0066098
17.420	233	242	0.0062988
17.430	234	241	0.0062000
17.440	252	243	0.0057392
17.450	239	246	0.0061035
17.460	239	252	0.0061035
17.470	250	260	0.0058272
17.480	267	271	0.0054870
17.490	267	287	0.0054870
17.500	285	306	0.0051020

17.510	298	331	0.0048902
17.520	353	361	0.0041091
17.530	409	395	0.0035431
17.540	415	432	0.0035013
17.550	440	466	0.0033029
17.560	453	492	0.0032283
17.570	488	504	0.0029861
17.580	465	495	0.0031210
17.590	441	469	0.0033029
17.600	426	432	0.0034199
17.610	393	392	0.0037180
17.620	379	353	0.0038579
17.630	353	320	0.0041091
17.640	313	292	0.0046277
17.650	286	270	0.0051020
17.660	228	251	0.0064000
17.670	240	237	0.0061035
17.680	233	225	0.0062000
17.690	216	215	0.0067186
17.700	191	207	0.0076947
17.710	187	200	0.0078315
17.720	193	195	0.0075614
17.730	187	190	0.0078315
17.740	183	186	0.0079719
17.750	174	183	0.0084168
17.760	171	180	0.0085734
17.770	167	178	0.0087344
17.780	166	176	0.0087344
17.790	165	174	0.0089000
17.800	167	172	0.0087344
17.810	170	171	0.0085734
17.820	159	170	0.0092456
17.830	157	169	0.0092456
17.840	155	169	0.0094260
17.850	172	168	0.0084168
17.860	184	168	0.0079719
17.870	169	168	0.0085734
17.880	171	168	0.0085734
17.890	164	168	0.0089000
17.900	152	168	0.0096117
17.910	162	168	0.0089000
17.920	166	169	0.0087344
17.930	158	170	0.0092456
17.940	165	171	0.0087344
17.950	186	172	0.0078315
17.960	169	173	0.0085734
17.970	167	174	0.0087344
17.980	178	176	0.0081162
17.990	153	178	0.0094260
18.000	179	181	0.0081162
18.010	183	183	0.0079719
18.020	174	187	0.0084168
18.030	194	190	0.0074316
18.040	179	195	0.0081162

18.050	215	200	0.0067186
18.060	192	207	0.0075614
18.070	205	214	0.0070616
18.080	224	223	0.0065036
18.090	238	234	0.0061035
18.100	234	247	0.0062000
18.110	286	262	0.0051020
18.120	300	282	0.0048225
18.130	336	305	0.0043283
18.140	335	335	0.0043283
18.150	387	370	0.0037638
18.160	442	413	0.0032653
18.170	534	464	0.0027127
18.180	593	520	0.0024507
18.190	601	578	0.0024029
18.200	696	630	0.0020850
18.210	719	667	0.0020109
18.220	731	678	0.0019753
18.230	709	661	0.0020291
18.240	636	619	0.0022676
18.250	603	563	0.0024029
18.260	525	503	0.0027412
18.270	464	447	0.0031210
18.280	422	399	0.0034199
18.290	394	359	0.0036731
18.300	322	326	0.0045043
18.310	310	301	0.0046277
18.320	261	280	0.0054870
18.330	291	264	0.0049593
18.340	282	252	0.0051020
18.350	235	244	0.0061035
18.360	260	238	0.0055692
18.370	240	236	0.0060093
18.380	233	236	0.0062000
18.390	236	239	0.0061035
18.400	249	244	0.0057392
18.410	259	249	0.0055692
18.420	267	253	0.0054066
18.430	237	252	0.0061035
18.440	249	246	0.0057392
18.450	240	234	0.0060093
18.460	239	221	0.0060093
18.470	203	208	0.0070616
18.480	191	197	0.0075614
18.490	178	188	0.0081162
18.500	181	181	0.0079719
18.510	195	176	0.0073051
18.520	189	171	0.0075614
18.530	176	168	0.0081162
18.540	157	165	0.0090703
18.550	174	162	0.0082645
18.560	160	160	0.0089000
18.570	152	158	0.0094260
18.580	163	156	0.0087344

18.590	145	155	0.0098030
18.600	158	154	0.0090703
18.610	168	152	0.0085734
18.620	151	151	0.0094260
18.630	155	150	0.0092456
18.640	156	150	0.0092456
18.650	146	149	0.0098030
18.660	167	148	0.0085734
18.670	146	148	0.0098030
18.680	139	147	0.0102030
18.690	170	147	0.0084168
18.700	148	147	0.0096117
18.710	145	147	0.0098030
18.720	161	146	0.0089000
18.730	132	146	0.0108507
18.740	150	146	0.0094260
18.750	151	145	0.0094260
18.760	149	145	0.0096117
18.770	132	145	0.0108507
18.780	149	144	0.0096117
18.790	155	144	0.0092456
18.800	149	144	0.0096117
18.810	139	144	0.0102030
18.820	157	143	0.0090703
18.830	141	143	0.0100000
18.840	152	143	0.0094260
18.850	152	143	0.0094260
18.860	145	143	0.0098030
18.870	133	143	0.0106281
18.880	160	143	0.0089000
18.890	162	142	0.0087344
18.900	151	142	0.0094260
18.910	137	142	0.0104123
18.920	145	142	0.0098030
18.930	137	142	0.0104123
18.940	145	142	0.0098030
18.950	142	142	0.0100000
18.960	147	142	0.0096117
18.970	159	142	0.0089000
18.980	142	142	0.0100000
18.990	134	142	0.0106281
19.000	135	142	0.0106281
19.010	142	142	0.0100000
19.020	134	142	0.0106281
19.030	150	143	0.0094260
19.040	144	143	0.0098030
19.050	161	143	0.0089000
19.060	154	144	0.0092456
19.070	147	144	0.0096117
19.080	135	145	0.0106281
19.090	119	146	0.0120758
19.100	143	147	0.0100000
19.110	155	149	0.0092456
19.120	134	151	0.0106281

19.130	157	154	0.0090703
19.140	169	158	0.0084168
19.150	174	163	0.0082645
19.160	176	168	0.0081162
19.170	193	173	0.0074316
19.180	172	176	0.0082645
19.190	190	175	0.0074316
19.200	193	171	0.0074316
19.210	204	165	0.0069444
19.220	181	160	0.0078315
19.230	153	155	0.0092456
19.240	156	152	0.0090703
19.250	133	149	0.0106281
19.260	154	147	0.0092456
19.270	148	146	0.0096117
19.280	134	145	0.0106281
19.290	158	144	0.0090703
19.300	143	143	0.0100000
19.310	127	143	0.0113173
19.320	143	142	0.0100000
19.330	148	142	0.0096117
19.340	154	142	0.0092456
19.350	134	142	0.0106281
19.360	150	142	0.0094260
19.370	152	142	0.0094260
19.380	141	142	0.0100000
19.390	129	142	0.0110803
19.400	136	142	0.0104123
19.410	136	142	0.0104123
19.420	145	142	0.0098030
19.430	127	142	0.0113173
19.440	130	142	0.0108507
19.450	141	142	0.0100000
19.460	123	142	0.0115620
19.470	143	142	0.0100000
19.480	154	142	0.0092456
19.490	148	143	0.0096117
19.500	148	143	0.0096117
19.510	153	143	0.0092456
19.520	159	143	0.0089000
19.530	155	144	0.0092456
19.540	141	144	0.0100000
19.550	165	144	0.0085734
19.560	139	145	0.0102030
19.570	155	145	0.0090703
19.580	146	146	0.0098030
19.590	133	146	0.0106281
19.600	153	147	0.0092456
19.610	139	147	0.0102030
19.620	157	148	0.0090703
19.630	127	149	0.0113173
19.640	139	150	0.0102030
19.650	146	151	0.0098030
19.660	139	152	0.0102030

19.670	168	154	0.0084168
19.680	157	156	0.0090703
19.690	153	158	0.0092456
19.700	164	162	0.0087344
19.710	141	166	0.0102030
19.720	157	171	0.0090703
19.730	183	178	0.0078315
19.740	188	187	0.0075614
19.750	196	198	0.0073051
19.760	214	209	0.0066098
19.770	219	219	0.0065036
19.780	221	224	0.0064000
19.790	207	221	0.0068301
19.800	195	212	0.0073051
19.810	200	202	0.0071818
19.820	181	192	0.0078315
19.830	207	186	0.0069444
19.840	169	181	0.0084168
19.850	172	179	0.0082645
19.860	178	177	0.0079719
19.870	172	177	0.0082645
19.880	183	177	0.0076947
19.890	153	179	0.0092456
19.900	176	180	0.0081162
19.910	183	183	0.0078315
19.920	185	186	0.0076947
19.930	171	190	0.0082645
19.940	198	194	0.0071818
19.950	217	200	0.0065036
19.960	179	206	0.0079719
19.970	192	214	0.0074316
19.980	228	223	0.0062000
19.990	221	234	0.0064000
20.000	244	246	0.0152416
20.010	264	258	0.0087344
20.020	281	271	0.0081162
20.030	298	283	0.0076947
20.040	278	292	0.0082645
20.050	301	298	0.0076947
20.060	292	303	0.0078315
20.070	264	306	0.0087344
20.080	297	310	0.0076947
20.090	279	317	0.0082645
20.100	321	328	0.0071818
20.110	329	344	0.0069444
20.120	324	367	0.0070616
20.130	365	396	0.0062988
20.140	411	435	0.0055692
20.150	435	485	0.0052510
20.160	510	550	0.0045043
20.170	623	634	0.0036731
20.180	707	738	0.0032283
20.190	851	864	0.0026846
20.200	973	1007	0.0023565

20.210	1179	1153	0.0019407
20.220	1250	1276	0.0018263
20.230	1258	1342	0.0018263
20.240	1270	1328	0.0018108
20.250	1171	1234	0.0019579
20.260	1089	1091	0.0021042
20.270	954	936	0.0024029
20.280	847	793	0.0027127
20.290	702	674	0.0032653
20.300	628	577	0.0036290
20.310	555	501	0.0041091
20.320	481	441	0.0047562
20.330	423	394	0.0054066
20.340	399	356	0.0057392
20.350	353	326	0.0065036
20.360	324	301	0.0070616
20.370	324	282	0.0070616
20.380	282	266	0.0081162
20.390	258	252	0.0089000
20.400	265	240	0.0085734
20.410	239	230	0.0096117
20.420	235	222	0.0096117
20.430	223	215	0.0102030
20.440	214	208	0.0106281
20.450	189	203	0.0120758
20.460	194	198	0.0118147
20.470	213	194	0.0106281
20.480	181	190	0.0126247
20.490	204	187	0.0110803
20.500	180	184	0.0126247
20.510	178	182	0.0126247
20.520	185	180	0.0123457
20.530	169	178	0.0135208
20.540	182	176	0.0123457
20.550	171	175	0.0132118
20.560	165	174	0.0138408
20.570	172	173	0.0132118
20.580	176	172	0.0129132
20.590	172	172	0.0132118
20.600	165	171	0.0138408
20.610	180	171	0.0126247
20.620	160	171	0.0141723
20.630	175	171	0.0129132
20.640	168	172	0.0135208
20.650	172	172	0.0132118
20.660	162	173	0.0138408
20.670	169	174	0.0132118
20.680	170	176	0.0132118
20.690	180	178	0.0126247
20.700	167	181	0.0135208
20.710	179	184	0.0126247
20.720	180	189	0.0126247
20.730	194	194	0.0115620
20.740	195	200	0.0115620

20.750	201	208	0.0113173
20.760	196	218	0.0115620
20.770	223	228	0.0102030
20.780	220	239	0.0102030
20.790	240	249	0.0094260
20.800	251	256	0.0089000
20.810	263	259	0.0085734
20.820	235	259	0.0096117
20.830	275	257	0.0082645
20.840	263	257	0.0085734
20.850	281	259	0.0079719
20.860	302	264	0.0074316
20.870	297	272	0.0075614
20.880	297	283	0.0075614
20.890	331	295	0.0068301
20.900	335	307	0.0067186
20.910	356	318	0.0062988
20.920	359	323	0.0062988
20.930	380	323	0.0059172
20.940	328	316	0.0068301
20.950	294	304	0.0076947
20.960	303	289	0.0074316
20.970	278	272	0.0081162
20.980	265	257	0.0085734
20.990	248	243	0.0090703
21.000	225	231	0.0100000
21.010	231	221	0.0098030
21.020	216	213	0.0104123
21.030	220	206	0.0102030
21.040	197	201	0.0115620
21.050	194	196	0.0115620
21.060	187	193	0.0120758
21.070	193	190	0.0115620
21.080	174	188	0.0129132
21.090	186	186	0.0120758
21.100	196	185	0.0115620
21.110	197	184	0.0115620
21.120	178	183	0.0126247
21.130	178	183	0.0126247
21.140	173	183	0.0129132
21.150	186	184	0.0120758
21.160	185	184	0.0120758
21.170	176	185	0.0129132
21.180	198	187	0.0115620
21.190	188	188	0.0120758
21.200	180	190	0.0126247
21.210	170	193	0.0132118
21.220	190	195	0.0118147
21.230	173	199	0.0132118
21.240	185	202	0.0123457
21.250	207	207	0.0108507
21.260	185	211	0.0123457
21.270	204	217	0.0110803
21.280	210	224	0.0108507

21.290	225	232	0.0100000
21.300	217	241	0.0104123
21.310	242	251	0.0094260
21.320	247	264	0.0092456
21.330	259	280	0.0087344
21.340	275	298	0.0082645
21.350	283	322	0.0079719
21.360	326	350	0.0069444
21.370	356	387	0.0064000
21.380	411	434	0.0054870
21.390	489	495	0.0046277
21.400	571	578	0.0039555
21.410	691	690	0.0032653
21.420	842	844	0.0026846
21.430	1084	1053	0.0020850
21.440	1341	1328	0.0016935
21.450	1611	1658	0.0014027
21.460	1837	1991	0.0012311
21.470	2083	2223	0.0010892
21.480	2022	2230	0.0011186
21.490	1838	1992	0.0012311
21.500	1615	1634	0.0014027
21.510	1320	1293	0.0017075
21.520	1112	1026	0.0020291
21.530	909	833	0.0024752
21.540	806	697	0.0027995
21.550	684	601	0.0033029
21.560	626	532	0.0035856
21.570	555	485	0.0040570
21.580	523	452	0.0043283
21.590	482	430	0.0046913
21.600	444	418	0.0051020
21.610	423	413	0.0053279
21.620	441	417	0.0051020
21.630	430	427	0.0052510
21.640	451	445	0.0050299
21.650	500	470	0.0045043
21.660	509	502	0.0044444
21.670	531	541	0.0042166
21.680	576	583	0.0039063
21.690	652	625	0.0034602
21.700	676	660	0.0033412
21.710	716	681	0.0031562
21.720	674	681	0.0033412
21.730	677	660	0.0033029
21.740	635	622	0.0035431
21.750	604	574	0.0037180
21.760	519	523	0.0043283
21.770	495	474	0.0045043
21.780	448	430	0.0050299
21.790	395	393	0.0056532
21.800	375	361	0.0060093
21.810	340	335	0.0066098
21.820	334	314	0.0067186

21.830	296	297	0.0075614
21.840	287	283	0.0078315
21.850	288	272	0.0078315
21.860	257	264	0.0087344
21.870	260	257	0.0085734
21.880	248	253	0.0090703
21.890	256	250	0.0087344
21.900	245	249	0.0090703
21.910	244	250	0.0092456
21.920	269	253	0.0082645
21.930	262	257	0.0085734
21.940	280	264	0.0079719
21.950	296	273	0.0075614
21.960	304	284	0.0073051
21.970	321	296	0.0069444
21.980	343	309	0.0065036
21.990	340	321	0.0065036
22.000	361	330	0.0062000
22.010	377	334	0.0059172
22.020	375	331	0.0059172
22.030	346	323	0.0064000
22.040	334	309	0.0066098
22.050	332	294	0.0067186
22.060	281	277	0.0079719
22.070	279	261	0.0079719
22.080	265	247	0.0084168
22.090	260	235	0.0085734
22.100	236	225	0.0094260
22.110	242	216	0.0092456
22.120	215	209	0.0104123
22.130	210	202	0.0106281
22.140	198	197	0.0113173
22.150	207	194	0.0106281
22.160	190	190	0.0115620
22.170	198	187	0.0110803
22.180	194	185	0.0113173
22.190	180	183	0.0123457
22.200	182	182	0.0120758
22.210	180	181	0.0123457
22.220	158	180	0.0141723
22.230	181	179	0.0123457
22.240	180	179	0.0123457
22.250	185	180	0.0120758
22.260	176	181	0.0126247
22.270	171	182	0.0129132
22.280	188	184	0.0118147
22.290	180	186	0.0123457
22.300	168	189	0.0132118
22.310	183	193	0.0120758
22.320	184	199	0.0120758
22.330	191	205	0.0115620
22.340	210	213	0.0106281
22.350	217	224	0.0102030
22.360	231	237	0.0096117

22.370	240	252	0.0092456
22.380	269	271	0.0082645
22.390	302	291	0.0073051
22.400	288	310	0.0076947
22.410	327	326	0.0068301
22.420	305	334	0.0073051
22.430	314	333	0.0070616
22.440	313	323	0.0070616
22.450	306	307	0.0073051
22.460	289	290	0.0076947
22.470	279	274	0.0079719
22.480	242	263	0.0090703
22.490	253	257	0.0087344
22.500	247	256	0.0089000
22.510	262	260	0.0084168
22.520	239	267	0.0092456
22.530	248	272	0.0089000
22.540	237	270	0.0094260
22.550	234	259	0.0094260
22.560	230	242	0.0096117
22.570	208	225	0.0106281
22.580	201	212	0.0110803
22.590	201	202	0.0110803
22.600	187	194	0.0118147
22.610	197	190	0.0113173
22.620	189	187	0.0118147
22.630	194	185	0.0115620
22.640	192	185	0.0115620
22.650	187	186	0.0118147
22.660	195	187	0.0113173
22.670	194	189	0.0115620
22.680	173	193	0.0129132
22.690	196	197	0.0113173
22.700	208	203	0.0106281
22.710	203	210	0.0108507
22.720	226	217	0.0098030
22.730	215	226	0.0104123
22.740	241	235	0.0092456
22.750	242	242	0.0092456
22.760	248	247	0.0089000
22.770	260	248	0.0085734
22.780	250	246	0.0089000
22.790	232	240	0.0096117
22.800	236	233	0.0094260
22.810	242	224	0.0092456
22.820	233	216	0.0096117
22.830	204	209	0.0108507
22.840	205	203	0.0108507
22.850	203	198	0.0108507
22.860	179	194	0.0123457
22.870	192	192	0.0115620
22.880	185	190	0.0120758
22.890	177	189	0.0126247
22.900	192	189	0.0115620

22.910	174	189	0.0126247
22.920	183	191	0.0120758
22.930	190	193	0.0115620
22.940	189	196	0.0118147
22.950	185	200	0.0120758
22.960	193	206	0.0115620
22.970	206	213	0.0106281
22.980	173	222	0.0126247
22.990	206	233	0.0108507
23.000	218	248	0.0102030
23.010	225	268	0.0098030
23.020	250	295	0.0089000
23.030	260	331	0.0084168
23.040	339	382	0.0065036
23.050	391	455	0.0056532
23.060	516	560	0.0042719
23.070	680	709	0.0032283
23.080	907	904	0.0024267
23.090	1182	1124	0.0018740
23.100	1383	1300	0.0016000
23.110	1413	1328	0.0015623
23.120	1112	1173	0.0019753
23.130	947	934	0.0023338
23.140	739	720	0.0029861
23.150	580	563	0.0038104
23.160	492	456	0.0044444
23.170	395	382	0.0055692
23.180	372	330	0.0059172
23.190	304	294	0.0071818
23.200	284	266	0.0076947
23.210	264	246	0.0082645
23.220	221	230	0.0100000
23.230	232	218	0.0094260
23.240	215	208	0.0102030
23.250	207	200	0.0106281
23.260	202	194	0.0108507
23.270	183	189	0.0120758
23.280	189	184	0.0115620
23.290	189	181	0.0115620
23.300	160	178	0.0135208
23.310	188	175	0.0115620
23.320	163	173	0.0135208
23.330	173	171	0.0126247
23.340	180	169	0.0120758
23.350	164	168	0.0135208
23.360	174	167	0.0126247
23.370	169	166	0.0129132
23.380	166	165	0.0132118
23.390	178	165	0.0123457
23.400	169	164	0.0129132
23.410	175	164	0.0126247
23.420	176	164	0.0123457
23.430	160	164	0.0135208
23.440	167	164	0.0132118

23.450	179	164	0.0120758
23.460	143	165	0.0152416
23.470	163	165	0.0135208
23.480	168	166	0.0129132
23.490	168	167	0.0129132
23.500	163	169	0.0135208
23.510	168	170	0.0129132
23.520	166	173	0.0132118
23.530	176	176	0.0123457
23.540	182	180	0.0120758
23.550	182	185	0.0120758
23.560	196	193	0.0110803
23.570	212	202	0.0102030
23.580	237	214	0.0092456
23.590	251	226	0.0085734
23.600	261	237	0.0082645
23.610	250	241	0.0087344
23.620	242	236	0.0089000
23.630	228	226	0.0096117
23.640	229	216	0.0094260
23.650	209	207	0.0104123
23.660	188	202	0.0115620
23.670	191	198	0.0113173
23.680	189	197	0.0115620
23.690	217	197	0.0100000
23.700	191	198	0.0113173
23.710	180	200	0.0120758
23.720	195	202	0.0110803
23.730	195	205	0.0110803
23.740	190	210	0.0113173
23.750	213	215	0.0102030
23.760	202	221	0.0106281
23.770	213	229	0.0102030
23.780	228	238	0.0094260
23.790	220	248	0.0098030
23.800	231	261	0.0094260
23.810	263	276	0.0082645
23.820	282	294	0.0076947
23.830	306	316	0.0070616
23.840	328	342	0.0066098
23.850	369	374	0.0058272
23.860	432	414	0.0050299
23.870	447	461	0.0048225
23.880	545	518	0.0039555
23.890	602	585	0.0035856
23.900	695	659	0.0031210
23.910	784	737	0.0027701
23.920	785	808	0.0027412
23.930	858	860	0.0025252
23.940	836	881	0.0025767
23.950	843	867	0.0025767
23.960	813	822	0.0026570
23.970	777	760	0.0027995
23.980	715	695	0.0030190

23.990	653	636	0.0033029
24.000	604	588	0.0035856
24.010	576	553	0.0037638
24.020	562	528	0.0038579
24.030	541	511	0.0040058
24.040	517	495	0.0041623
24.050	504	474	0.0042719
24.060	458	445	0.0047562
24.070	423	411	0.0051020
24.080	394	376	0.0054870
24.090	388	345	0.0055692
24.100	342	318	0.0062988
24.110	309	295	0.0070616
24.120	293	276	0.0074316
24.130	289	261	0.0074316
24.140	258	247	0.0084168
24.150	243	236	0.0089000
24.160	230	227	0.0094260
24.170	224	219	0.0096117
24.180	224	213	0.0098030
24.190	217	207	0.0100000
24.200	187	203	0.0115620
24.210	207	199	0.0104123
24.220	184	195	0.0118147
24.230	191	192	0.0113173
24.240	201	190	0.0108507
24.250	183	188	0.0118147
24.260	176	186	0.0123457
24.270	173	185	0.0126247
24.280	173	184	0.0126247
24.290	195	183	0.0110803
24.300	187	183	0.0115620
24.310	196	183	0.0110803
24.320	179	183	0.0120758
24.330	199	184	0.0108507
24.340	202	185	0.0108507
24.350	204	187	0.0106281
24.360	182	189	0.0120758
24.370	191	192	0.0113173
24.380	198	195	0.0110803
24.390	182	200	0.0120758
24.400	214	205	0.0102030
24.410	215	212	0.0102030
24.420	217	221	0.0100000
24.430	231	232	0.0094260
24.440	248	246	0.0087344
24.450	294	264	0.0074316
24.460	290	288	0.0075614
24.470	337	320	0.0065036
24.480	402	360	0.0054066
24.490	439	412	0.0049593
24.500	527	473	0.0041091
24.510	555	538	0.0039063
24.520	613	593	0.0035431

24.530	586	621	0.0037180
24.540	562	609	0.0038579
24.550	540	564	0.0040058
24.560	484	504	0.0045043
24.570	457	445	0.0047562
24.580	416	394	0.0052510
24.590	374	352	0.0058272
24.600	318	316	0.0068301
24.610	294	288	0.0073051
24.620	275	265	0.0078315
24.630	261	248	0.0082645
24.640	247	234	0.0087344
24.650	236	224	0.0092456
24.660	224	217	0.0096117
24.670	233	212	0.0092456
24.680	220	209	0.0098030
24.690	221	206	0.0098030
24.700	211	205	0.0102030
24.710	212	205	0.0102030
24.720	213	205	0.0102030
24.730	198	205	0.0108507
24.740	193	205	0.0110803
24.750	195	204	0.0110803
24.760	206	202	0.0104123
24.770	200	201	0.0106281
24.780	203	199	0.0106281
24.790	218	197	0.0098030
24.800	194	196	0.0110803
24.810	195	196	0.0110803
24.820	205	197	0.0104123
24.830	206	200	0.0104123
24.840	215	203	0.0100000
24.850	232	207	0.0092456
24.860	236	213	0.0090703
24.870	231	219	0.0092456
24.880	253	225	0.0084168
24.890	257	229	0.0082645
24.900	234	232	0.0090703
24.910	248	232	0.0085734
24.920	225	229	0.0094260
24.930	231	224	0.0092456
24.940	224	218	0.0096117
24.950	231	213	0.0092456
24.960	223	209	0.0096117
24.970	221	206	0.0096117
24.980	192	204	0.0110803
24.990	210	202	0.0102030
25.000	194	200	0.0108507
25.010	198	198	0.0106281
25.020	194	195	0.0110803
25.030	197	193	0.0108507
25.040	204	190	0.0104123
25.050	201	187	0.0106281
25.060	186	183	0.0113173

25.070	169	180	0.0126247
25.080	181	178	0.0118147
25.090	172	175	0.0123457
25.100	181	173	0.0118147
25.110	182	171	0.0115620
25.120	158	170	0.0135208
25.130	177	169	0.0120758
25.140	162	168	0.0132118
25.150	165	168	0.0129132
25.160	169	167	0.0126247
25.170	166	167	0.0129132
25.180	147	167	0.0145159
25.190	169	167	0.0126247
25.200	174	168	0.0120758
25.210	169	168	0.0126247
25.220	169	169	0.0126247
25.230	168	170	0.0126247
25.240	151	171	0.0141723
25.250	159	172	0.0132118
25.260	160	174	0.0132118
25.270	167	176	0.0126247
25.280	183	178	0.0115620
25.290	172	180	0.0123457
25.300	168	183	0.0126247
25.310	187	186	0.0113173
25.320	197	190	0.0106281
25.330	193	195	0.0110803
25.340	188	200	0.0113173
25.350	178	206	0.0118147
25.360	204	213	0.0104123
25.370	212	221	0.0100000
25.380	232	231	0.0090703
25.390	239	242	0.0089000
25.400	254	255	0.0084168
25.410	276	269	0.0076947
25.420	300	286	0.0070616
25.430	324	303	0.0065036
25.440	334	321	0.0062988
25.450	356	337	0.0059172
25.460	368	350	0.0057392
25.470	352	357	0.0060093
25.480	364	358	0.0058272
25.490	339	353	0.0062000
25.500	331	343	0.0064000
25.510	339	329	0.0062988
25.520	308	314	0.0069444
25.530	296	300	0.0071818
25.540	291	287	0.0073051
25.550	268	276	0.0079719
25.560	247	268	0.0085734
25.570	263	262	0.0081162
25.580	252	258	0.0084168
25.590	234	256	0.0090703
25.600	251	257	0.0084168

25.610	257	260	0.0082645
25.620	259	264	0.0081162
25.630	256	271	0.0082645
25.640	270	278	0.0078315
25.650	297	285	0.0071818
25.660	290	292	0.0073051
25.670	294	296	0.0071818
25.680	281	296	0.0075614
25.690	289	292	0.0073051
25.700	281	285	0.0075614
25.710	270	275	0.0078315
25.720	251	264	0.0084168
25.730	255	253	0.0082645
25.740	257	243	0.0082645
25.750	234	234	0.0090703
25.760	241	226	0.0087344
25.770	228	220	0.0092456
25.780	204	215	0.0104123
25.790	190	211	0.0110803
25.800	190	207	0.0110803
25.810	197	205	0.0108507
25.820	204	204	0.0104123
25.830	213	204	0.0100000
25.840	188	204	0.0113173
25.850	212	206	0.0100000
25.860	205	209	0.0104123
25.870	198	213	0.0106281
25.880	214	218	0.0100000
25.890	222	225	0.0096117
25.900	247	234	0.0085734
25.910	260	243	0.0081162
25.920	244	251	0.0087344
25.930	239	256	0.0089000
25.940	271	258	0.0078315
25.950	252	256	0.0084168
25.960	240	252	0.0089000
25.970	243	249	0.0087344
25.980	231	248	0.0092456
25.990	251	249	0.0084168
26.000	257	253	0.0082645
26.010	245	259	0.0085734
26.020	273	267	0.0078315
26.030	293	278	0.0071818
26.040	310	291	0.0068301
26.050	350	308	0.0061035
26.060	345	327	0.0061035
26.070	376	351	0.0056532
26.080	430	377	0.0049593
26.090	447	405	0.0047562
26.100	471	434	0.0045043
26.110	520	460	0.0040570
26.120	547	481	0.0038579
26.130	542	493	0.0039063
26.140	516	493	0.0041091

26.150	527	481	0.0040058
26.160	478	461	0.0044444
26.170	464	434	0.0045654
26.180	424	405	0.0049593
26.190	388	376	0.0054870
26.200	353	350	0.0060093
26.210	332	326	0.0064000
26.220	310	306	0.0068301
26.230	319	288	0.0066098
26.240	280	274	0.0075614
26.250	267	262	0.0079719
26.260	249	252	0.0085734
26.270	236	244	0.0089000
26.280	248	237	0.0085734
26.290	236	232	0.0089000
26.300	220	229	0.0096117
26.310	207	226	0.0102030
26.320	221	225	0.0096117
26.330	229	225	0.0092456
26.340	204	227	0.0104123
26.350	224	231	0.0094260
26.360	221	236	0.0096117
26.370	243	245	0.0087344
26.380	238	257	0.0089000
26.390	283	273	0.0074316
26.400	289	293	0.0073051
26.410	313	315	0.0067186
26.420	308	335	0.0068301
26.430	333	345	0.0062988
26.440	327	342	0.0064000
26.450	322	326	0.0065036
26.460	285	305	0.0074316
26.470	277	284	0.0075614
26.480	260	268	0.0081162
26.490	247	256	0.0085734
26.500	228	248	0.0092456
26.510	247	243	0.0084168
26.520	223	240	0.0094260
26.530	226	240	0.0092456
26.540	262	241	0.0079719
26.550	226	244	0.0092456
26.560	237	248	0.0089000
26.570	229	255	0.0090703
26.580	260	263	0.0079719
26.590	234	273	0.0089000
26.600	300	285	0.0069444
26.610	291	300	0.0071818
26.620	300	318	0.0069444
26.630	312	340	0.0067186
26.640	352	366	0.0059172
26.650	393	398	0.0053279
26.660	427	436	0.0048902
26.670	500	480	0.0041623
26.680	514	530	0.0040570

26.690	606	586	0.0034602
26.700	646	642	0.0032283
26.710	714	692	0.0029218
26.720	696	729	0.0029861
26.730	735	746	0.0028293
26.740	745	738	0.0027995
26.750	733	708	0.0028293
26.760	667	664	0.0031210
26.770	594	613	0.0035013
26.780	586	563	0.0035431
26.790	549	516	0.0037638
26.800	484	476	0.0042719
26.810	507	441	0.0041091
26.820	428	411	0.0048225
26.830	412	385	0.0050299
26.840	379	362	0.0054870
26.850	353	341	0.0059172
26.860	339	322	0.0061035
26.870	313	305	0.0066098
26.880	312	289	0.0066098
26.890	308	276	0.0067186
26.900	268	264	0.0076947
26.910	273	254	0.0075614
26.920	257	245	0.0081162
26.930	268	238	0.0076947
26.940	243	232	0.0085734
26.950	219	226	0.0094260
26.960	231	222	0.0089000
26.970	219	218	0.0094260
26.980	212	215	0.0098030
26.990	208	213	0.0100000
27.000	216	211	0.0096117
27.010	207	210	0.0100000
27.020	204	209	0.0102030
27.030	188	209	0.0110803
27.040	211	209	0.0098030
27.050	190	209	0.0108507
27.060	199	211	0.0104123
27.070	200	212	0.0104123
27.080	209	214	0.0098030
27.090	220	217	0.0094260
27.100	206	221	0.0100000
27.110	217	225	0.0096117
27.120	215	230	0.0096117
27.130	236	237	0.0087344
27.140	229	245	0.0090703
27.150	238	254	0.0087344
27.160	248	266	0.0084168
27.170	276	280	0.0074316
27.180	281	298	0.0073051
27.190	297	320	0.0069444
27.200	345	347	0.0060093
27.210	357	380	0.0058272
27.220	420	422	0.0048902

27.230	461	472	0.0045043
27.240	510	532	0.0040570
27.250	587	598	0.0035013
27.260	647	669	0.0031919
27.270	731	743	0.0028293
27.280	826	819	0.0025000
27.290	881	897	0.0023338
27.300	936	962	0.0022041
27.310	940	991	0.0022041
27.320	934	962	0.0022041
27.330	824	882	0.0025000
27.340	749	779	0.0027701
27.350	679	683	0.0030524
27.360	654	606	0.0031562
27.370	611	551	0.0033802
27.380	566	515	0.0036290
27.390	562	494	0.0036731
27.400	547	485	0.0037638
27.410	560	484	0.0036731
27.420	534	489	0.0038579
27.430	556	497	0.0037180
27.440	577	505	0.0035856
27.450	570	508	0.0036290
27.460	537	504	0.0038579
27.470	539	492	0.0038104
27.480	509	473	0.0040570
27.490	498	448	0.0041623
27.500	453	420	0.0045654
27.510	451	392	0.0045654
27.520	378	366	0.0054870
27.530	370	342	0.0055692
27.540	364	320	0.0056532
27.550	315	302	0.0065036
27.560	302	287	0.0068301
27.570	303	273	0.0068301
27.580	273	262	0.0075614
27.590	270	252	0.0076947
27.600	265	244	0.0078315
27.610	233	236	0.0089000
27.620	250	228	0.0082645
27.630	239	221	0.0085734
27.640	224	215	0.0092456
27.650	198	209	0.0104123
27.660	231	204	0.0089000
27.670	196	200	0.0106281
27.680	200	196	0.0102030
27.690	209	192	0.0098030
27.700	183	189	0.0113173
27.710	191	186	0.0108507
27.720	188	184	0.0108507
27.730	183	182	0.0113173
27.740	182	180	0.0113173
27.750	186	179	0.0110803
27.760	158	178	0.0129132

27.770	172	177	0.0118147
27.780	173	176	0.0118147
27.790	168	175	0.0123457
27.800	185	175	0.0110803
27.810	183	174	0.0113173
27.820	175	174	0.0118147
27.830	188	174	0.0110803
27.840	156	175	0.0132118
27.850	175	175	0.0118147
27.860	174	176	0.0118147
27.870	178	177	0.0115620
27.880	177	179	0.0115620
27.890	185	181	0.0110803
27.900	168	183	0.0123457
27.910	194	186	0.0106281
27.920	197	190	0.0104123
27.930	203	194	0.0102030
27.940	205	199	0.0100000
27.950	212	206	0.0098030
27.960	232	213	0.0089000
27.970	239	222	0.0085734
27.980	273	232	0.0075614
27.990	293	242	0.0070616
28.000	289	254	0.0070616
28.010	306	264	0.0067186
28.020	308	273	0.0066098
28.030	321	280	0.0064000
28.040	302	284	0.0068301
28.050	318	287	0.0065036
28.060	319	289	0.0064000
28.070	315	292	0.0065036
28.080	297	297	0.0069444
28.090	313	305	0.0066098
28.100	292	313	0.0070616
28.110	316	319	0.0065036
28.120	295	319	0.0069444
28.130	314	313	0.0065036
28.140	262	299	0.0078315
28.150	294	281	0.0069444
28.160	278	262	0.0074316
28.170	259	245	0.0079719
28.180	253	229	0.0081162
28.190	230	216	0.0089000
28.200	199	206	0.0102030
28.210	200	197	0.0102030
28.220	187	190	0.0108507
28.230	202	184	0.0102030
28.240	179	179	0.0113173
28.250	162	175	0.0126247
28.260	174	172	0.0118147
28.270	166	169	0.0123457
28.280	184	166	0.0110803
28.290	188	164	0.0108507
28.300	162	162	0.0126247

28.310	153	161	0.0132118
28.320	176	159	0.0115620
28.330	156	158	0.0132118
28.340	157	157	0.0129132
28.350	152	156	0.0135208
28.360	170	155	0.0120758
28.370	154	154	0.0132118
28.380	146	154	0.0138408
28.390	162	153	0.0126247
28.400	152	152	0.0132118
28.410	169	152	0.0120758
28.420	143	152	0.0141723
28.430	143	151	0.0141723
28.440	149	151	0.0135208
28.450	148	150	0.0138408
28.460	159	150	0.0129132
28.470	150	150	0.0135208
28.480	155	150	0.0132118
28.490	147	150	0.0138408
28.500	138	151	0.0148721
28.510	158	151	0.0129132
28.520	165	152	0.0123457
28.530	145	153	0.0138408
28.540	163	154	0.0123457
28.550	165	156	0.0123457
28.560	155	159	0.0129132
28.570	153	161	0.0132118
28.580	161	163	0.0126247
28.590	160	163	0.0126247
28.600	164	162	0.0123457
28.610	161	159	0.0126247
28.620	155	157	0.0129132
28.630	141	154	0.0141723
28.640	149	152	0.0135208
28.650	169	151	0.0118147
28.660	138	150	0.0145159
28.670	144	149	0.0138408
28.680	142	148	0.0141723
28.690	138	148	0.0145159
28.700	142	148	0.0141723
28.710	148	148	0.0135208
28.720	143	148	0.0141723
28.730	147	148	0.0138408
28.740	157	148	0.0129132
28.750	134	148	0.0148721
28.760	154	148	0.0132118
28.770	141	148	0.0141723
28.780	135	149	0.0148721
28.790	138	149	0.0145159
28.800	143	149	0.0141723
28.810	147	150	0.0135208
28.820	152	150	0.0132118
28.830	139	151	0.0145159
28.840	136	152	0.0148721

28.850	142	153	0.0141723
28.860	135	154	0.0148721
28.870	157	156	0.0129132
28.880	150	157	0.0135208
28.890	167	159	0.0120758
28.900	160	162	0.0126247
28.910	174	165	0.0115620
28.920	194	168	0.0104123
28.930	178	172	0.0113173
28.940	183	178	0.0108507
28.950	167	185	0.0120758
28.960	206	194	0.0098030
28.970	204	205	0.0098030
28.980	223	218	0.0089000
28.990	224	229	0.0089000
29.000	232	234	0.0085734
29.010	218	230	0.0092456
29.020	204	219	0.0098030
29.030	197	207	0.0102030
29.040	197	197	0.0102030
29.050	205	189	0.0098030
29.060	185	184	0.0108507
29.070	191	180	0.0104123
29.080	191	178	0.0104123
29.090	182	177	0.0110803
29.100	174	177	0.0115620
29.110	170	178	0.0118147
29.120	176	180	0.0113173
29.130	156	182	0.0129132
29.140	193	185	0.0104123
29.150	192	189	0.0104123
29.160	184	194	0.0108507
29.170	190	200	0.0106281
29.180	216	207	0.0092456
29.190	211	215	0.0096117
29.200	225	225	0.0089000
29.210	225	236	0.0089000
29.220	256	249	0.0078315
29.230	249	263	0.0081162
29.240	265	278	0.0075614
29.250	285	292	0.0070616
29.260	302	303	0.0066098
29.270	293	310	0.0068301
29.280	307	312	0.0065036
29.290	290	309	0.0069444
29.300	294	302	0.0068301
29.310	299	293	0.0067186
29.320	296	282	0.0068301
29.330	287	272	0.0069444
29.340	245	263	0.0082645
29.350	275	255	0.0073051
29.360	250	248	0.0079719
29.370	241	241	0.0084168
29.380	227	235	0.0089000

29.390	216	229	0.0094260
29.400	218	223	0.0092456
29.410	223	217	0.0090703
29.420	208	210	0.0096117
29.430	207	204	0.0098030
29.440	195	198	0.0104123
29.450	203	193	0.0100000
29.460	202	190	0.0100000
29.470	172	187	0.0118147
29.480	178	184	0.0113173
29.490	188	183	0.0106281
29.500	190	181	0.0106281
29.510	167	180	0.0120758
29.520	167	180	0.0120758
29.530	174	179	0.0115620
29.540	165	178	0.0123457
29.550	200	178	0.0100000
29.560	185	177	0.0108507
29.570	175	176	0.0115620
29.580	165	174	0.0123457
29.590	164	173	0.0123457
29.600	158	172	0.0129132
29.610	165	172	0.0123457
29.620	157	171	0.0129132
29.630	147	171	0.0138408
29.640	168	171	0.0120758
29.650	157	171	0.0129132
29.660	160	171	0.0126247
29.670	150	172	0.0135208
29.680	163	173	0.0123457
29.690	151	174	0.0132118
29.700	145	176	0.0138408
29.710	174	178	0.0115620
29.720	172	180	0.0118147
29.730	183	183	0.0110803
29.740	173	186	0.0115620
29.750	153	189	0.0132118
29.760	163	193	0.0123457
29.770	160	196	0.0126247
29.780	187	200	0.0108507
29.790	194	205	0.0104123
29.800	204	209	0.0098030
29.810	179	215	0.0113173
29.820	210	222	0.0096117
29.830	213	230	0.0094260
29.840	235	240	0.0085734
29.850	257	251	0.0078315
29.860	253	264	0.0079719
29.870	267	278	0.0075614
29.880	314	295	0.0064000
29.890	347	314	0.0058272
29.900	351	333	0.0057392
29.910	369	352	0.0054066
29.920	415	370	0.0048225

29.930	428	384	0.0046913
29.940	432	393	0.0046277
29.950	406	396	0.0049593
29.960	407	391	0.0049593
29.970	393	381	0.0051020
29.980	375	367	0.0053279
29.990	358	350	0.0055692
30.000	338	334	0.0141723
30.010	319	318	0.0087344
30.020	296	304	0.0094260
30.030	277	292	0.0100000
30.040	271	282	0.0102030
30.050	267	275	0.0104123
30.060	269	270	0.0102030
30.070	260	267	0.0106281
30.080	259	266	0.0106281
30.090	261	268	0.0106281
30.100	263	272	0.0106281
30.110	266	278	0.0104123
30.120	284	285	0.0098030
30.130	278	295	0.0100000
30.140	289	307	0.0096117
30.150	309	320	0.0089000
30.160	320	334	0.0085734
30.170	338	350	0.0081162
30.180	363	367	0.0075614
30.190	379	382	0.0073051
30.200	389	390	0.0070616
30.210	391	385	0.0070616
30.220	363	367	0.0075614
30.230	341	339	0.0081162
30.240	295	309	0.0092456
30.250	282	282	0.0098030
30.260	261	260	0.0104123
30.270	243	242	0.0113173
30.280	222	228	0.0123457
30.290	195	217	0.0138408
30.300	199	208	0.0138408
30.310	200	201	0.0135208
30.320	184	195	0.0148721
30.330	178	190	0.0152416
30.340	168	186	0.0164366
30.350	170	182	0.0160231
30.360	186	179	0.0145159
30.370	184	177	0.0148721
30.380	168	175	0.0160231
30.390	166	173	0.0164366
30.400	169	172	0.0160231
30.410	171	171	0.0160231
30.420	164	170	0.0164366
30.430	169	169	0.0160231
30.440	151	169	0.0177778
30.450	163	169	0.0164366
30.460	157	169	0.0173130

30.470	164	170	0.0164366
30.480	159	171	0.0173130
30.490	161	172	0.0168663
30.500	170	174	0.0160231
30.510	174	177	0.0156250
30.520	166	179	0.0164366
30.530	164	183	0.0164366
30.540	177	187	0.0152416
30.550	179	191	0.0152416
30.560	194	196	0.0138408
30.570	190	201	0.0141723
30.580	200	206	0.0135208
30.590	206	210	0.0132118
30.600	214	212	0.0126247
30.610	210	212	0.0129132
30.620	194	210	0.0138408
30.630	195	208	0.0138408
30.640	199	207	0.0135208
30.650	207	207	0.0132118
30.660	190	208	0.0141723
30.670	206	211	0.0132118
30.680	197	215	0.0138408
30.690	225	220	0.0120758
30.700	217	225	0.0123457
30.710	212	230	0.0129132
30.720	234	234	0.0115620
30.730	217	237	0.0123457
30.740	228	238	0.0118147
30.750	234	238	0.0115620
30.760	225	237	0.0120758
30.770	208	236	0.0129132
30.780	215	234	0.0126247
30.790	216	233	0.0102030
30.800	220	233	0.0085734
30.810	218	234	0.0108507
30.820	215	237	0.0110803
30.830	238	241	0.0102030
30.840	239	248	0.0102030
30.850	239	257	0.0104123
30.860	273	269	0.0092456
30.870	293	285	0.0089000
30.880	301	304	0.0087344
30.890	317	327	0.0084168
30.900	386	354	0.0070616
30.910	398	384	0.0069444
30.920	415	415	0.0067186
30.930	443	443	0.0064000
30.940	468	462	0.0062000
30.950	457	468	0.0064000
30.960	433	459	0.0068301
30.970	413	437	0.0073051
30.980	405	407	0.0074316
30.990	343	375	0.0089000
31.000	338	343	0.0090703

31.010	309	315	0.0100000
31.020	281	291	0.0113173
31.030	278	270	0.0115620
31.040	266	253	0.0120758
31.050	243	239	0.0132118
31.060	227	227	0.0145159
31.070	232	218	0.0141723
31.080	221	210	0.0152416
31.090	211	203	0.0160231
31.100	194	198	0.0173130
31.110	186	193	0.0182615
31.120	189	190	0.0182615
31.130	190	187	0.0182615
31.140	183	185	0.0187652
31.150	185	183	0.0187652
31.160	178	182	0.0192901
31.170	179	182	0.0192901
31.180	181	182	0.0192901
31.190	192	183	0.0182615
31.200	173	184	0.0204082
31.210	188	185	0.0187652
31.220	177	187	0.0198373
31.230	195	188	0.0182615
31.240	195	190	0.0182615
31.250	180	192	0.0198373
31.260	197	194	0.0182615
31.270	190	196	0.0187652
31.280	195	198	0.0187652
31.290	224	202	0.0160231
31.300	216	207	0.0168663
31.310	222	214	0.0164366
31.320	225	224	0.0160231
31.330	247	237	0.0148721
31.340	265	254	0.0138408
31.350	263	273	0.0138408
31.360	285	292	0.0129132
31.370	306	305	0.0120758
31.380	290	306	0.0126247
31.390	279	295	0.0132118
31.400	280	276	0.0132118
31.410	258	256	0.0145159
31.420	238	238	0.0156250
31.430	229	224	0.0160231
31.440	223	213	0.0168663
31.450	222	206	0.0168663
31.460	207	200	0.0177778
31.470	195	197	0.0192901
31.480	194	195	0.0192901
31.490	200	194	0.0187652
31.500	199	194	0.0187652
31.510	180	195	0.0210040
31.520	193	197	0.0192901
31.530	199	200	0.0187652
31.540	205	204	0.0182615

31.550	211	209	0.0177778
31.560	218	215	0.0173130
31.570	234	222	0.0160231
31.580	240	231	0.0156250
31.590	242	240	0.0156250
31.600	246	250	0.0152416
31.610	272	260	0.0138408
31.620	276	270	0.0135208
31.630	288	281	0.0129132
31.640	309	291	0.0120758
31.650	306	301	0.0123457
31.660	326	313	0.0115620
31.670	338	326	0.0110803
31.680	353	343	0.0106281
31.690	370	363	0.0102030
31.700	428	389	0.0087344
31.710	458	421	0.0081162
31.720	500	458	0.0074316
31.730	550	497	0.0067186
31.740	616	532	0.0060093
31.750	572	550	0.0064000
31.760	592	542	0.0062000
31.770	500	509	0.0073051
31.780	475	460	0.0076947
31.790	438	410	0.0084168
31.800	388	365	0.0094260
31.810	377	328	0.0098030
31.820	322	299	0.0113173
31.830	312	276	0.0118147
31.840	266	258	0.0138408
31.850	260	244	0.0141723
31.860	239	233	0.0152416
31.870	235	224	0.0156250
31.880	232	218	0.0156250
31.890	217	213	0.0168663
31.900	214	209	0.0173130
31.910	205	207	0.0177778
31.920	209	206	0.0173130
31.930	197	205	0.0187652
31.940	201	206	0.0182615
31.950	212	208	0.0173130
31.960	205	211	0.0177778
31.970	207	215	0.0177778
31.980	228	220	0.0160231
31.990	228	228	0.0160231
32.000	231	237	0.0156250
32.010	253	248	0.0145159
32.020	267	262	0.0138408
32.030	304	278	0.0120758
32.040	300	298	0.0120758
32.050	325	320	0.0113173
32.060	361	344	0.0102030
32.070	367	369	0.0100000
32.080	389	392	0.0094260

32.090	406	410	0.0090703
32.100	416	423	0.0087344
32.110	412	429	0.0089000
32.120	399	428	0.0090703
32.130	396	418	0.0092456
32.140	375	397	0.0098030
32.150	347	370	0.0104123
32.160	316	340	0.0115620
32.170	313	313	0.0115620
32.180	284	289	0.0129132
32.190	278	269	0.0132118
32.200	258	254	0.0141723
32.210	250	243	0.0145159
32.220	254	234	0.0145159
32.230	237	228	0.0152416
32.240	242	224	0.0152416
32.250	235	222	0.0156250
32.260	233	221	0.0156250
32.270	235	221	0.0156250
32.280	233	223	0.0156250
32.290	215	227	0.0168663
32.300	229	232	0.0160231
32.310	233	238	0.0156250
32.320	249	246	0.0148721
32.330	267	255	0.0138408
32.340	267	264	0.0135208
32.350	267	274	0.0138408
32.360	277	282	0.0132118
32.370	311	288	0.0118147
32.380	282	290	0.0129132
32.390	287	288	0.0126247
32.400	272	282	0.0135208
32.410	264	273	0.0138408
32.420	267	262	0.0138408
32.430	266	251	0.0138408
32.440	243	239	0.0152416
32.450	221	229	0.0164366
32.460	215	220	0.0168663
32.470	206	212	0.0177778
32.480	208	206	0.0177778
32.490	200	200	0.0182615
32.500	194	195	0.0187652
32.510	193	189	0.0187652
32.520	179	183	0.0204082
32.530	168	178	0.0216263
32.540	175	173	0.0210040
32.550	169	168	0.0216263
32.560	169	164	0.0216263
32.570	165	161	0.0222767
32.580	157	158	0.0236686
32.590	162	156	0.0229568
32.600	154	154	0.0236686
32.610	152	152	0.0244141
32.620	160	150	0.0229568

32.630	135	149	0.0268745
32.640	141	147	0.0260146
32.650	155	146	0.0236686
32.660	151	145	0.0244141
32.670	153	144	0.0244141
32.680	136	143	0.0268745
32.690	141	143	0.0260146
32.700	143	142	0.0260146
32.710	145	141	0.0251953
32.720	150	141	0.0244141
32.730	137	140	0.0268745
32.740	151	139	0.0244141
32.750	133	139	0.0277778
32.760	147	139	0.0251953
32.770	132	138	0.0277778
32.780	131	138	0.0277778
32.790	133	137	0.0277778
32.800	144	137	0.0260146
32.810	142	137	0.0260146
32.820	137	136	0.0268745
32.830	134	136	0.0277778
32.840	135	136	0.0268745
32.850	140	135	0.0260146
32.860	128	135	0.0287274
32.870	130	135	0.0287274
32.880	136	135	0.0268745
32.890	137	135	0.0268745
32.900	131	135	0.0277778
32.910	137	135	0.0268745
32.920	131	134	0.0277778
32.930	138	134	0.0268745
32.940	130	134	0.0287274
32.950	138	134	0.0268745
32.960	135	134	0.0268745
32.970	139	134	0.0268745
32.980	136	134	0.0268745
32.990	139	134	0.0268745
33.000	130	134	0.0287274
33.010	128	133	0.0287274
33.020	136	133	0.0268745
33.030	127	133	0.0287274
33.040	130	133	0.0287274
33.050	141	133	0.0260146
33.060	134	134	0.0277778
33.070	133	134	0.0277778
33.080	135	134	0.0268745
33.090	141	134	0.0260146
33.100	126	134	0.0297265
33.110	134	134	0.0277778
33.120	142	134	0.0260146
33.130	124	134	0.0297265
33.140	131	134	0.0287274
33.150	138	134	0.0268745
33.160	133	135	0.0277778

33.170	135	135	0.0268745
33.180	134	135	0.0277778
33.190	144	135	0.0260146
33.200	128	136	0.0287274
33.210	136	136	0.0268745
33.220	128	136	0.0287274
33.230	142	136	0.0260146
33.240	132	136	0.0277778
33.250	122	137	0.0307787
33.260	127	137	0.0287274
33.270	139	138	0.0268745
33.280	125	138	0.0297265
33.290	126	139	0.0297265
33.300	134	139	0.0277778
33.310	136	140	0.0268745
33.320	134	141	0.0277778
33.330	137	142	0.0268745
33.340	138	143	0.0268745
33.350	140	144	0.0268745
33.360	138	145	0.0268745
33.370	146	146	0.0251953
33.380	147	148	0.0251953
33.390	137	149	0.0268745
33.400	140	151	0.0268745
33.410	153	153	0.0244141
33.420	148	156	0.0251953
33.430	148	159	0.0251953
33.440	153	162	0.0244141
33.450	169	165	0.0216263
33.460	164	170	0.0229568
33.470	179	175	0.0204082
33.480	174	181	0.0210040
33.490	178	188	0.0210040
33.500	187	196	0.0198373
33.510	200	205	0.0187652
33.520	222	216	0.0168663
33.530	231	230	0.0160231
33.540	258	245	0.0145159
33.550	256	264	0.0145159
33.560	279	285	0.0132118
33.570	317	307	0.0115620
33.580	324	328	0.0113173
33.590	335	343	0.0110803
33.600	322	347	0.0115620
33.610	333	338	0.0110803
33.620	302	319	0.0123457
33.630	280	296	0.0132118
33.640	264	274	0.0138408
33.650	260	254	0.0141723
33.660	248	238	0.0148721
33.670	233	226	0.0160231
33.680	214	216	0.0173130
33.690	203	209	0.0182615
33.700	212	205	0.0173130

33.710	214	202	0.0173130
33.720	214	200	0.0173130
33.730	211	200	0.0173130
33.740	216	201	0.0168663
33.750	208	203	0.0177778
33.760	212	207	0.0173130
33.770	233	211	0.0156250
33.780	219	217	0.0168663
33.790	230	223	0.0160231
33.800	228	230	0.0160231
33.810	247	238	0.0148721
33.820	255	246	0.0145159
33.830	269	254	0.0138408
33.840	275	261	0.0135208
33.850	258	268	0.0141723
33.860	269	274	0.0138408
33.870	313	280	0.0118147
33.880	308	287	0.0120758
33.890	312	294	0.0118147
33.900	310	301	0.0118147
33.910	336	309	0.0110803
33.920	335	318	0.0110803
33.930	334	326	0.0110803
33.940	347	332	0.0106281
33.950	324	334	0.0113173
33.960	342	328	0.0108507
33.970	306	316	0.0120758
33.980	289	299	0.0126247
33.990	272	281	0.0135208
34.000	266	266	0.0138408
34.010	256	253	0.0145159
34.020	246	244	0.0148721
34.030	240	236	0.0152416
34.040	241	231	0.0152416
34.050	228	227	0.0160231
34.060	226	224	0.0164366
34.070	231	222	0.0160231
34.080	220	220	0.0168663
34.090	225	219	0.0164366
34.100	204	218	0.0182615
34.110	209	217	0.0177778
34.120	219	217	0.0168663
34.130	213	218	0.0173130
34.140	231	220	0.0160231
34.150	232	223	0.0160231
34.160	224	228	0.0164366
34.170	255	234	0.0145159
34.180	246	242	0.0148721
34.190	245	252	0.0148721
34.200	270	265	0.0135208
34.210	268	280	0.0138408
34.220	310	298	0.0118147
34.230	318	317	0.0115620
34.240	343	337	0.0106281

34.250	354	357	0.0104123
34.260	370	372	0.0100000
34.270	377	382	0.0098030
34.280	356	385	0.0104123
34.290	368	380	0.0100000
34.300	352	369	0.0104123
34.310	325	353	0.0113173
34.320	326	333	0.0113173
34.330	306	312	0.0120758
34.340	266	292	0.0138408
34.350	268	274	0.0138408
34.360	253	258	0.0145159
34.370	247	244	0.0148721
34.380	232	233	0.0160231
34.390	241	224	0.0152416
34.400	212	217	0.0173130
34.410	226	211	0.0164366
34.420	206	205	0.0177778
34.430	201	201	0.0182615
34.440	220	197	0.0168663
34.450	205	193	0.0177778
34.460	194	190	0.0187652
34.470	197	188	0.0187652
34.480	186	185	0.0198373
34.490	175	184	0.0210040
34.500	188	183	0.0198373
34.510	187	182	0.0198373
34.520	176	183	0.0210040
34.530	183	184	0.0204082
34.540	185	186	0.0198373
34.550	181	190	0.0204082
34.560	200	195	0.0182615
34.570	204	201	0.0182615
34.580	210	209	0.0177778
34.590	230	220	0.0160231
34.600	232	234	0.0160231
34.610	246	250	0.0152416
34.620	279	270	0.0132118
34.630	273	292	0.0135208
34.640	310	314	0.0120758
34.650	309	332	0.0120758
34.660	299	342	0.0123457
34.670	297	341	0.0126247
34.680	303	328	0.0123457
34.690	271	308	0.0135208
34.700	269	285	0.0138408
34.710	240	262	0.0156250
34.720	225	242	0.0164366
34.730	236	226	0.0156250
34.740	207	212	0.0177778
34.750	207	202	0.0177778
34.760	191	193	0.0192901
34.770	199	186	0.0187652
34.780	201	181	0.0182615

34.790	180	177	0.0204082
34.800	172	174	0.0216263
34.810	170	172	0.0216263
34.820	180	171	0.0204082
34.830	166	171	0.0222767
34.840	176	171	0.0210040
34.850	179	173	0.0210040
34.860	183	175	0.0204082
34.870	173	178	0.0216263
34.880	187	183	0.0198373
34.890	210	189	0.0177778
34.900	207	198	0.0177778
34.910	201	209	0.0182615
34.920	234	224	0.0160231
34.930	255	243	0.0145159
34.940	283	268	0.0132118
34.950	293	298	0.0126247
34.960	322	327	0.0115620
34.970	342	343	0.0108507
34.980	322	336	0.0115620
34.990	314	314	0.0118147
35.000	286	286	0.0129132
35.010	257	261	0.0145159
35.020	267	240	0.0138408
35.030	234	222	0.0156250
35.040	230	206	0.0160231
35.050	210	194	0.0177778
35.060	200	183	0.0182615
35.070	187	175	0.0198373
35.080	183	168	0.0204082
35.090	159	163	0.0229568
35.100	175	158	0.0210040
35.110	151	154	0.0244141
35.120	157	151	0.0236686
35.130	159	148	0.0229568
35.140	152	146	0.0244141
35.150	141	144	0.0260146
35.160	159	143	0.0229568
35.170	145	141	0.0251953
35.180	139	140	0.0260146
35.190	141	139	0.0260146
35.200	148	138	0.0251953
35.210	153	137	0.0236686
35.220	141	137	0.0260146
35.230	144	136	0.0251953
35.240	141	136	0.0260146
35.250	128	136	0.0287274
35.260	141	135	0.0260146
35.270	134	135	0.0268745
35.280	137	135	0.0268745
35.290	138	135	0.0268745
35.300	136	136	0.0268745
35.310	139	136	0.0260146
35.320	146	136	0.0251953

35.330	142	136	0.0260146
35.340	142	136	0.0260146
35.350	136	135	0.0268745
35.360	141	135	0.0260146
35.370	137	135	0.0268745
35.380	134	136	0.0268745
35.390	126	136	0.0287274
35.400	137	136	0.0268745
35.410	135	137	0.0268745
35.420	139	137	0.0260146
35.430	130	138	0.0277778
35.440	142	138	0.0260146
35.450	137	139	0.0268745
35.460	141	140	0.0260146
35.470	143	141	0.0251953
35.480	128	142	0.0287274
35.490	142	144	0.0260146
35.500	152	145	0.0236686
35.510	146	147	0.0251953
35.520	149	149	0.0244141
35.530	143	151	0.0251953
35.540	145	153	0.0251953
35.550	142	155	0.0260146
35.560	151	158	0.0244141
35.570	153	161	0.0236686
35.580	157	165	0.0229568
35.590	161	169	0.0229568
35.600	172	173	0.0210040
35.610	164	178	0.0222767
35.620	183	184	0.0198373
35.630	183	191	0.0198373
35.640	203	200	0.0177778
35.650	212	209	0.0173130
35.660	208	221	0.0177778
35.670	230	233	0.0160231
35.680	228	244	0.0160231
35.690	246	253	0.0148721
35.700	246	259	0.0148721
35.710	244	259	0.0148721
35.720	234	255	0.0156250
35.730	229	249	0.0160231
35.740	228	243	0.0160231
35.750	220	238	0.0164366
35.760	229	234	0.0160231
35.770	220	233	0.0164366
35.780	233	234	0.0156250
35.790	231	236	0.0156250
35.800	235	242	0.0156250
35.810	251	249	0.0145159
35.820	272	258	0.0135208
35.830	278	270	0.0132118
35.840	291	284	0.0126247
35.850	316	300	0.0115620
35.860	322	319	0.0113173

35.870	360	340	0.0102030
35.880	375	362	0.0098030
35.890	420	386	0.0087344
35.900	414	409	0.0089000
35.910	444	431	0.0082645
35.920	451	451	0.0081162
35.930	469	468	0.0078315
35.940	467	483	0.0078315
35.950	485	497	0.0075614
35.960	507	514	0.0073051
35.970	540	534	0.0068301
35.980	575	556	0.0064000
35.990	596	576	0.0062000
36.000	573	584	0.0064000
36.010	561	576	0.0066098
36.020	515	556	0.0071818
36.030	506	527	0.0073051
36.040	447	491	0.0082645
36.050	421	447	0.0087344
36.060	386	400	0.0096117
36.070	373	355	0.0098030
36.080	320	317	0.0115620
36.090	301	286	0.0123457
36.100	275	261	0.0135208
36.110	274	241	0.0135208
36.120	242	225	0.0152416
36.130	231	212	0.0160231
36.140	212	202	0.0173130
36.150	215	193	0.0173130
36.160	203	186	0.0182615
36.170	198	180	0.0187652
36.180	183	175	0.0204082
36.190	187	171	0.0198373
36.200	169	167	0.0216263
36.210	196	164	0.0187652
36.220	167	161	0.0222767
36.230	176	159	0.0210040
36.240	170	158	0.0216263
36.250	172	157	0.0216263
36.260	180	156	0.0204082
36.270	171	156	0.0216263
36.280	161	157	0.0229568
36.290	177	158	0.0210040
36.300	171	160	0.0216263
36.310	166	163	0.0222767
36.320	179	165	0.0204082
36.330	188	167	0.0192901
36.340	181	167	0.0204082
36.350	171	164	0.0216263
36.360	163	161	0.0222767
36.370	174	157	0.0210040
36.380	143	153	0.0251953
36.390	146	150	0.0251953
36.400	146	147	0.0251953

36.410	138	145	0.0260146
36.420	150	144	0.0244141
36.430	130	142	0.0277778
36.440	138	141	0.0260146
36.450	143	141	0.0251953
36.460	144	140	0.0251953
36.470	144	140	0.0251953
36.480	128	140	0.0287274
36.490	137	140	0.0268745
36.500	143	141	0.0251953
36.510	131	141	0.0277778
36.520	140	142	0.0260146
36.530	136	144	0.0268745
36.540	149	145	0.0244141
36.550	143	147	0.0251953
36.560	131	149	0.0277778
36.570	155	151	0.0229568
36.580	165	154	0.0216263
36.590	158	157	0.0229568
36.600	158	161	0.0229568
36.610	174	164	0.0210040
36.620	165	169	0.0216263
36.630	175	173	0.0204082
36.640	178	177	0.0204082
36.650	177	182	0.0204082
36.660	193	186	0.0187652
36.670	197	189	0.0182615
36.680	184	192	0.0198373
36.690	195	195	0.0187652
36.700	192	196	0.0187652
36.710	198	195	0.0182615
36.720	178	191	0.0204082
36.730	187	186	0.0192901
36.740	171	180	0.0210040
36.750	165	175	0.0216263
36.760	158	170	0.0229568
36.770	155	167	0.0229568
36.780	174	165	0.0210040
36.790	166	163	0.0216263
36.800	163	162	0.0222767
36.810	165	162	0.0216263
36.820	174	162	0.0210040
36.830	161	163	0.0222767
36.840	177	165	0.0204082
36.850	170	167	0.0216263
36.860	171	170	0.0210040
36.870	187	174	0.0192901
36.880	183	178	0.0198373
36.890	178	182	0.0204082
36.900	187	186	0.0192901
36.910	207	189	0.0173130
36.920	198	192	0.0182615
36.930	188	193	0.0192901
36.940	191	192	0.0187652

36.950	185	190	0.0198373
36.960	184	187	0.0198373
36.970	185	183	0.0198373
36.980	179	178	0.0204082
36.990	190	173	0.0192901
37.000	172	168	0.0210040
37.010	150	164	0.0244141
37.020	161	160	0.0222767
37.030	169	156	0.0216263
37.040	168	153	0.0216263
37.050	150	151	0.0244141
37.060	148	149	0.0244141
37.070	146	147	0.0251953
37.080	140	146	0.0260146
37.090	151	145	0.0236686
37.100	152	145	0.0236686
37.110	155	145	0.0236686
37.120	152	144	0.0236686
37.130	155	144	0.0236686
37.140	146	144	0.0251953
37.150	151	143	0.0244141
37.160	144	143	0.0251953
37.170	145	142	0.0251953
37.180	151	141	0.0236686
37.190	146	139	0.0251953
37.200	140	138	0.0260146
37.210	134	137	0.0268745
37.220	135	135	0.0268745
37.230	126	134	0.0287274
37.240	139	134	0.0260146
37.250	143	133	0.0251953
37.260	131	133	0.0277778
37.270	140	133	0.0260146
37.280	134	134	0.0268745
37.290	140	135	0.0260146
37.300	137	136	0.0260146
37.310	136	138	0.0268745
37.320	139	139	0.0260146
37.330	144	141	0.0251953
37.340	135	141	0.0268745
37.350	141	141	0.0260146
37.360	127	140	0.0287274
37.370	142	138	0.0251953
37.380	127	136	0.0287274
37.390	132	134	0.0277778
37.400	131	132	0.0277778
37.410	128	130	0.0277778
37.420	110	128	0.0330579
37.430	124	126	0.0297265
37.440	121	125	0.0297265
37.450	135	124	0.0268745
37.460	133	123	0.0268745
37.470	116	123	0.0307787
37.480	122	122	0.0297265

37.490	110	122	0.0330579
37.500	121	122	0.0297265
37.510	128	122	0.0287274
37.520	107	122	0.0330579
37.530	119	122	0.0297265
37.540	128	122	0.0277778
37.550	131	123	0.0277778
37.560	127	123	0.0287274
37.570	127	124	0.0287274
37.580	123	125	0.0297265
37.590	143	126	0.0251953
37.600	125	128	0.0287274
37.610	130	130	0.0277778
37.620	128	132	0.0277778
37.630	135	135	0.0268745
37.640	150	138	0.0236686
37.650	150	142	0.0236686
37.660	158	146	0.0229568
37.670	156	150	0.0229568
37.680	158	153	0.0229568
37.690	157	156	0.0229568
37.700	163	156	0.0222767
37.710	156	155	0.0229568
37.720	152	153	0.0236686
37.730	142	149	0.0251953
37.740	137	145	0.0260146
37.750	126	141	0.0287274
37.760	148	138	0.0244141
37.770	127	135	0.0277778
37.780	126	132	0.0287274
37.790	119	130	0.0297265
37.800	129	129	0.0277778
37.810	126	127	0.0287274
37.820	137	127	0.0260146
37.830	130	126	0.0277778
37.840	128	125	0.0277778
37.850	131	125	0.0268745
37.860	126	125	0.0287274
37.870	128	126	0.0277778
37.880	116	126	0.0307787
37.890	121	127	0.0297265
37.900	125	128	0.0287274
37.910	133	130	0.0268745
37.920	132	132	0.0268745
37.930	136	134	0.0260146
37.940	134	138	0.0268745
37.950	137	142	0.0260146
37.960	140	146	0.0251953
37.970	137	151	0.0260146
37.980	156	155	0.0229568
37.990	145	158	0.0244141
38.000	162	160	0.0222767
38.010	146	161	0.0244141
38.020	151	160	0.0236686

38.030	164	157	0.0216263
38.040	141	152	0.0251953
38.050	136	147	0.0260146
38.060	141	143	0.0251953
38.070	126	139	0.0287274
38.080	125	137	0.0287274
38.090	135	135	0.0268745
38.100	126	134	0.0287274
38.110	135	133	0.0268745
38.120	131	133	0.0268745
38.130	131	133	0.0277778
38.140	132	134	0.0268745
38.150	129	135	0.0277778
38.160	121	136	0.0297265
38.170	140	137	0.0251953
38.180	133	139	0.0268745
38.190	132	141	0.0268745
38.200	127	144	0.0277778
38.210	146	147	0.0244141
38.220	145	150	0.0244141
38.230	156	154	0.0229568
38.240	158	159	0.0229568
38.250	155	164	0.0229568
38.260	170	170	0.0210040
38.270	181	177	0.0198373
38.280	179	184	0.0198373
38.290	177	191	0.0204082
38.300	185	198	0.0192901
38.310	210	205	0.0168663
38.320	197	210	0.0182615
38.330	199	214	0.0177778
38.340	201	216	0.0177778
38.350	197	217	0.0182615
38.360	211	216	0.0168663
38.370	216	213	0.0164366
38.380	215	211	0.0164366
38.390	214	209	0.0164366
38.400	204	207	0.0173130
38.410	202	207	0.0177778
38.420	221	206	0.0160231
38.430	220	207	0.0160231
38.440	207	207	0.0173130
38.450	208	208	0.0168663
38.460	219	208	0.0160231
38.470	224	208	0.0156250
38.480	216	208	0.0164366
38.490	230	208	0.0152416
38.500	210	207	0.0168663
38.510	225	208	0.0156250
38.520	233	208	0.0152416
38.530	231	208	0.0152416
38.540	228	208	0.0156250
38.550	221	208	0.0160231
38.560	207	208	0.0168663

38.570	204	207	0.0173130
38.580	211	206	0.0168663
38.590	215	205	0.0164366
38.600	206	204	0.0173130
38.610	203	204	0.0173130
38.620	201	206	0.0177778
38.630	202	210	0.0173130
38.640	203	214	0.0173130
38.650	191	218	0.0187652
38.660	184	219	0.0192901
38.670	185	216	0.0192901
38.680	181	208	0.0192901
38.690	177	198	0.0198373
38.700	186	188	0.0187652
38.710	170	179	0.0210040
38.720	169	173	0.0210040
38.730	165	167	0.0216263
38.740	150	163	0.0236686
38.750	167	161	0.0210040
38.760	161	159	0.0222767
38.770	152	158	0.0229568
38.780	153	158	0.0229568
38.790	154	159	0.0229568
38.800	163	160	0.0216263
38.810	166	163	0.0216263
38.820	179	166	0.0198373
38.830	170	170	0.0210040
38.840	180	175	0.0198373
38.850	191	181	0.0187652
38.860	184	189	0.0192901
38.870	211	199	0.0168663
38.880	219	211	0.0160231
38.890	243	226	0.0145159
38.900	277	244	0.0129132
38.910	287	264	0.0123457
38.920	312	287	0.0113173
38.930	332	311	0.0106281
38.940	354	331	0.0100000
38.950	346	346	0.0102030
38.960	348	354	0.0102030
38.970	362	354	0.0098030
38.980	341	347	0.0104123
38.990	324	332	0.0108507
39.000	299	311	0.0118147
39.010	296	290	0.0120758
39.020	285	270	0.0123457
39.030	275	253	0.0129132
39.040	269	240	0.0132118
39.050	244	230	0.0145159
39.060	243	223	0.0145159
39.070	236	216	0.0148721
39.080	246	211	0.0145159
39.090	219	206	0.0160231
39.100	209	201	0.0168663

39.110	209	196	0.0168663
39.120	184	190	0.0192901
39.130	189	185	0.0187652
39.140	181	180	0.0192901
39.150	180	175	0.0198373
39.160	176	171	0.0198373
39.170	175	167	0.0204082
39.180	174	164	0.0204082
39.190	161	162	0.0222767
39.200	177	160	0.0198373
39.210	169	159	0.0210040
39.220	161	159	0.0222767
39.230	160	160	0.0222767
39.240	149	160	0.0236686
39.250	163	161	0.0216263
39.260	156	160	0.0229568
39.270	156	158	0.0222767
39.280	154	155	0.0229568
39.290	149	151	0.0236686
39.300	151	147	0.0236686
39.310	144	143	0.0244141
39.320	129	140	0.0277778
39.330	145	138	0.0244141
39.340	134	136	0.0260146
39.350	137	134	0.0260146
39.360	137	133	0.0260146
39.370	131	132	0.0268745
39.380	143	132	0.0244141
39.390	124	131	0.0287274
39.400	144	131	0.0244141
39.410	127	131	0.0277778
39.420	133	132	0.0260146
39.430	130	132	0.0268745
39.440	137	133	0.0260146
39.450	128	134	0.0277778
39.460	125	136	0.0277778
39.470	140	138	0.0251953
39.480	136	140	0.0260146
39.490	136	143	0.0260146
39.500	154	146	0.0229568
39.510	148	150	0.0236686
39.520	172	155	0.0204082
39.530	173	161	0.0204082
39.540	165	168	0.0210040
39.550	165	176	0.0210040
39.560	184	185	0.0187652
39.570	186	194	0.0187652
39.580	208	203	0.0168663
39.590	202	212	0.0173130
39.600	205	218	0.0168663
39.610	208	221	0.0168663
39.620	193	219	0.0182615
39.630	201	215	0.0173130
39.640	200	208	0.0173130

39.650	196	199	0.0177778
39.660	193	190	0.0182615
39.670	172	182	0.0204082
39.680	156	175	0.0222767
39.690	165	168	0.0210040
39.700	168	163	0.0210040
39.710	157	159	0.0222767
39.720	151	156	0.0229568
39.730	154	154	0.0222767
39.740	147	153	0.0236686
39.750	150	152	0.0229568
39.760	170	152	0.0204082
39.770	154	153	0.0222767
39.780	156	154	0.0222767
39.790	156	156	0.0222767
39.800	161	159	0.0216263
39.810	171	162	0.0204082
39.820	167	166	0.0210040
39.830	174	171	0.0198373
39.840	200	178	0.0173130
39.850	182	185	0.0187652
39.860	201	194	0.0173130
39.870	205	205	0.0168663
39.880	227	218	0.0152416
39.890	249	232	0.0138408
39.900	245	246	0.0141723
39.910	232	256	0.0148721
39.920	218	260	0.0160231
39.930	236	255	0.0145159
39.940	209	243	0.0164366
39.950	198	227	0.0173130
39.960	184	210	0.0187652
39.970	180	195	0.0192901
39.980	191	182	0.0182615
39.990	164	171	0.0210040
40.000	178	163	0.0192901
40.010	165	156	0.0210040
40.020	159	150	0.0216263
40.030	154	146	0.0222767
40.040	144	142	0.0244141
40.050	149	139	0.0229568
40.060	143	136	0.0244141
40.070	136	135	0.0251953
40.080	135	133	0.0260146
40.090	124	132	0.0277778
40.100	139	131	0.0251953
40.110	129	131	0.0268745
40.120	122	131	0.0287274
40.130	135	131	0.0260146
40.140	127	132	0.0268745
40.150	131	133	0.0260146
40.160	145	134	0.0236686
40.170	125	136	0.0277778
40.180	137	137	0.0251953

40.190	140	139	0.0244141
40.200	129	139	0.0268745
40.210	137	139	0.0251953
40.220	122	139	0.0287274
40.230	123	139	0.0277778
40.240	140	139	0.0244141
40.250	141	140	0.0244141
40.260	147	140	0.0236686
40.270	148	142	0.0236686
40.280	142	144	0.0244141
40.290	140	146	0.0244141
40.300	149	148	0.0229568
40.310	145	151	0.0236686
40.320	158	154	0.0216263
40.330	162	158	0.0216263
40.340	167	162	0.0210040
40.350	171	165	0.0204082
40.360	174	170	0.0198373
40.370	176	174	0.0198373
40.380	188	179	0.0182615
40.390	178	183	0.0192901
40.400	193	188	0.0177778
40.410	191	192	0.0182615
40.420	192	195	0.0182615
40.430	198	197	0.0177778
40.440	192	197	0.0182615
40.450	208	196	0.0168663
40.460	186	193	0.0187652
40.470	185	190	0.0187652
40.480	170	186	0.0204082
40.490	182	181	0.0192901
40.500	172	176	0.0204082
40.510	172	172	0.0204082
40.520	165	168	0.0210040
40.530	159	164	0.0216263
40.540	154	161	0.0222767
40.550	159	159	0.0216263
40.560	142	157	0.0244141
40.570	155	156	0.0222767
40.580	151	156	0.0229568
40.590	151	156	0.0229568
40.600	143	156	0.0244141
40.610	157	158	0.0222767
40.620	153	159	0.0229568
40.630	164	162	0.0210040
40.640	162	165	0.0216263
40.650	159	169	0.0216263
40.660	186	173	0.0187652
40.670	177	178	0.0198373
40.680	186	183	0.0187652
40.690	193	189	0.0177778
40.700	198	195	0.0173130
40.710	203	200	0.0168663
40.720	207	205	0.0168663

40.730	215	208	0.0160231
40.740	210	210	0.0164366
40.750	204	211	0.0168663
40.760	211	210	0.0164366
40.770	208	207	0.0164366
40.780	221	203	0.0156250
40.790	216	198	0.0160231
40.800	192	192	0.0177778
40.810	185	186	0.0187652
40.820	179	180	0.0192901
40.830	180	175	0.0192901
40.840	167	169	0.0210040
40.850	152	164	0.0229568
40.860	165	159	0.0210040
40.870	152	155	0.0229568
40.880	140	151	0.0244141
40.890	151	148	0.0229568
40.900	142	145	0.0244141
40.910	126	143	0.0268745
40.920	135	141	0.0251953
40.930	145	139	0.0236686
40.940	129	138	0.0268745
40.950	152	138	0.0229568
40.960	131	137	0.0260146
40.970	133	138	0.0260146
40.980	133	138	0.0260146
40.990	141	140	0.0244141
41.000	149	141	0.0229568
41.010	131	144	0.0260146
41.020	145	147	0.0236686
41.030	151	151	0.0229568
41.040	156	157	0.0222767
41.050	169	164	0.0204082
41.060	171	173	0.0198373
41.070	192	183	0.0177778
41.080	199	195	0.0173130
41.090	202	208	0.0168663
41.100	216	219	0.0156250
41.110	223	227	0.0152416
41.120	221	229	0.0152416
41.130	215	226	0.0160231
41.140	213	219	0.0160231
41.150	189	210	0.0182615
41.160	194	201	0.0173130
41.170	191	191	0.0177778
41.180	168	182	0.0204082
41.190	164	173	0.0204082
41.200	164	165	0.0204082
41.210	158	159	0.0216263
41.220	140	153	0.0244141
41.230	163	148	0.0210040
41.240	147	144	0.0229568
41.250	143	141	0.0236686
41.260	132	138	0.0260146

41.270	144	137	0.0236686
41.280	134	135	0.0251953
41.290	133	135	0.0251953
41.300	134	134	0.0251953
41.310	132	135	0.0251953
41.320	120	136	0.0277778
41.330	140	137	0.0244141
41.340	159	139	0.0210040
41.350	134	141	0.0251953
41.360	156	144	0.0216263
41.370	151	147	0.0222767
41.380	151	151	0.0222767
41.390	162	156	0.0210040
41.400	156	162	0.0216263
41.410	169	167	0.0198373
41.420	187	173	0.0177778
41.430	167	177	0.0204082
41.440	184	181	0.0182615
41.450	182	182	0.0182615
41.460	177	180	0.0187652
41.470	167	177	0.0204082
41.480	160	172	0.0210040
41.490	162	166	0.0210040
41.500	164	160	0.0204082
41.510	168	155	0.0198373
41.520	143	150	0.0236686
41.530	151	146	0.0222767
41.540	148	142	0.0229568
41.550	142	140	0.0236686
41.560	141	137	0.0236686
41.570	149	136	0.0229568
41.580	149	135	0.0222767
41.590	141	135	0.0236686
41.600	145	135	0.0229568
41.610	136	136	0.0244141
41.620	147	138	0.0229568
41.630	147	140	0.0229568
41.640	147	143	0.0229568
41.650	155	147	0.0216263
41.660	165	152	0.0204082
41.670	177	159	0.0192901
41.680	167	167	0.0204082
41.690	177	176	0.0192901
41.700	177	186	0.0192901
41.710	184	196	0.0182615
41.720	207	203	0.0164366
41.730	191	208	0.0177778
41.740	198	210	0.0168663
41.750	187	208	0.0182615
41.760	188	201	0.0177778
41.770	165	192	0.0204082
41.780	175	181	0.0192901
41.790	154	171	0.0216263
41.800	154	162	0.0222767

41.810	149	154	0.0229568
41.820	153	147	0.0222767
41.830	134	142	0.0251953
41.840	132	138	0.0251953
41.850	140	135	0.0244141
41.860	141	133	0.0236686
41.870	145	132	0.0229568
41.880	136	131	0.0251953
41.890	131	131	0.0260146
41.900	133	132	0.0251953
41.910	133	133	0.0251953
41.920	155	135	0.0216263
41.930	142	136	0.0236686
41.940	160	138	0.0210040
41.950	151	139	0.0222767
41.960	156	140	0.0216263
41.970	138	140	0.0244141
41.980	162	140	0.0210040
41.990	154	140	0.0222767
42.000	151	140	0.0222767
42.010	155	139	0.0216263
42.020	146	139	0.0229568
42.030	147	138	0.0229568
42.040	136	137	0.0251953
42.050	138	135	0.0244141
42.060	144	134	0.0236686
42.070	132	132	0.0260146
42.080	138	131	0.0244141
42.090	133	130	0.0251953
42.100	127	129	0.0268745
42.110	138	128	0.0244141
42.120	128	127	0.0268745
42.130	117	127	0.0287274
42.140	136	127	0.0251953
42.150	134	126	0.0251953
42.160	123	126	0.0277778
42.170	121	126	0.0277778
42.180	136	127	0.0251953
42.190	127	127	0.0268745
42.200	125	128	0.0268745
42.210	129	129	0.0260146
42.220	129	130	0.0260146
42.230	135	132	0.0251953
42.240	126	134	0.0268745
42.250	132	136	0.0251953
42.260	144	139	0.0236686
42.270	159	142	0.0210040
42.280	146	146	0.0229568
42.290	161	150	0.0210040
42.300	142	155	0.0236686
42.310	161	160	0.0210040
42.320	152	164	0.0222767
42.330	157	167	0.0216263
42.340	157	168	0.0216263

42.350	157	167	0.0216263
42.360	159	164	0.0210040
42.370	144	160	0.0236686
42.380	154	155	0.0216263
42.390	140	149	0.0236686
42.400	144	145	0.0229568
42.410	126	140	0.0268745
42.420	141	137	0.0236686
42.430	140	134	0.0236686
42.440	130	131	0.0260146
42.450	132	129	0.0251953
42.460	133	128	0.0251953
42.470	131	127	0.0251953
42.480	121	126	0.0277778
42.490	126	126	0.0268745
42.500	140	126	0.0236686
42.510	126	127	0.0268745
42.520	134	128	0.0251953
42.530	147	129	0.0229568
42.540	142	130	0.0236686
42.550	141	132	0.0236686
42.560	150	133	0.0222767
42.570	141	135	0.0236686
42.580	142	136	0.0236686
42.590	154	137	0.0216263
42.600	139	138	0.0244141
42.610	150	138	0.0222767
42.620	154	138	0.0216263
42.630	142	137	0.0236686
42.640	140	136	0.0236686
42.650	145	134	0.0229568
42.660	138	132	0.0244141
42.670	134	131	0.0244141
42.680	135	129	0.0244141
42.690	134	128	0.0251953
42.700	126	127	0.0260146
42.710	126	126	0.0260146
42.720	121	126	0.0277778
42.730	125	125	0.0260146
42.740	126	125	0.0260146
42.750	130	125	0.0251953
42.760	131	126	0.0251953
42.770	129	127	0.0260146
42.780	134	128	0.0244141
42.790	132	130	0.0251953
42.800	133	132	0.0251953
42.810	134	135	0.0244141
42.820	142	139	0.0229568
42.830	150	145	0.0222767
42.840	161	152	0.0204082
42.850	162	161	0.0204082
42.860	174	171	0.0187652
42.870	195	183	0.0168663
42.880	181	194	0.0182615

42.890	184	202	0.0177778
42.900	187	204	0.0177778
42.910	196	200	0.0168663
42.920	183	192	0.0182615
42.930	173	182	0.0192901
42.940	175	174	0.0187652
42.950	170	167	0.0192901
42.960	163	162	0.0204082
42.970	160	159	0.0204082
42.980	174	157	0.0187652
42.990	163	157	0.0204082
43.000	157	157	0.0210040
43.010	151	159	0.0216263
43.020	159	161	0.0210040
43.030	158	163	0.0210040
43.040	155	167	0.0210040
43.050	162	172	0.0204082
43.060	176	178	0.0187652
43.070	187	186	0.0177778
43.080	184	196	0.0177778
43.090	193	208	0.0173130
43.100	212	219	0.0156250
43.110	218	229	0.0152416
43.120	226	232	0.0145159
43.130	214	228	0.0152416
43.140	193	218	0.0168663
43.150	191	203	0.0173130
43.160	180	188	0.0182615
43.170	162	175	0.0204082
43.180	148	163	0.0222767
43.190	146	154	0.0222767
43.200	148	146	0.0222767
43.210	139	140	0.0236686
43.220	134	136	0.0244141
43.230	126	132	0.0260146
43.240	127	129	0.0260146
43.250	129	127	0.0251953
43.260	136	125	0.0244141
43.270	132	124	0.0251953
43.280	132	123	0.0251953
43.290	120	122	0.0277778
43.300	115	122	0.0287274
43.310	121	122	0.0277778
43.320	118	123	0.0277778
43.330	122	123	0.0268745
43.340	121	124	0.0268745
43.350	117	125	0.0287274
43.360	133	127	0.0251953
43.370	126	128	0.0260146
43.380	130	130	0.0251953
43.390	134	132	0.0244141
43.400	146	134	0.0229568
43.410	136	136	0.0244141
43.420	149	137	0.0222767

43.430	135	139	0.0244141
43.440	138	142	0.0236686
43.450	146	144	0.0229568
43.460	154	145	0.0216263
43.470	146	147	0.0229568
43.480	145	146	0.0229568
43.490	146	145	0.0229568
43.500	141	142	0.0236686
43.510	142	139	0.0229568
43.520	136	136	0.0244141
43.530	143	133	0.0229568
43.540	124	130	0.0268745
43.550	133	128	0.0251953
43.560	125	127	0.0268745
43.570	119	125	0.0277778
43.580	113	124	0.0297265
43.590	135	124	0.0244141
43.600	133	124	0.0251953
43.610	133	124	0.0251953
43.620	119	125	0.0277778
43.630	133	126	0.0251953
43.640	123	127	0.0268745
43.650	119	129	0.0277778
43.660	143	132	0.0229568
43.670	135	135	0.0244141
43.680	141	139	0.0236686
43.690	150	143	0.0222767
43.700	151	148	0.0216263
43.710	170	154	0.0192901
43.720	167	162	0.0198373
43.730	177	170	0.0187652
43.740	189	179	0.0173130
43.750	190	189	0.0173130
43.760	187	197	0.0177778
43.770	203	203	0.0164366
43.780	196	206	0.0168663
43.790	183	205	0.0177778
43.800	193	202	0.0168663
43.810	197	198	0.0168663
43.820	180	193	0.0182615
43.830	185	187	0.0177778
43.840	170	181	0.0192901
43.850	180	175	0.0182615
43.860	155	169	0.0210040
43.870	168	164	0.0192901
43.880	150	159	0.0216263
43.890	143	155	0.0229568
43.900	147	151	0.0222767
43.910	144	147	0.0229568
43.920	146	144	0.0222767
43.930	133	141	0.0244141
43.940	136	138	0.0244141
43.950	140	135	0.0236686
43.960	130	132	0.0251953

43.970	130	130	0.0251953
43.980	129	128	0.0251953
43.990	126	126	0.0260146
44.000	121	124	0.0268745
44.010	113	122	0.0287274
44.020	117	120	0.0277778
44.030	115	118	0.0287274
44.040	127	117	0.0260146
44.050	109	115	0.0297265
44.060	111	114	0.0287274
44.070	107	113	0.0307787
44.080	108	112	0.0297265
44.090	99	111	0.0330579
44.100	96	110	0.0342936
44.110	103	109	0.0318878
44.120	97	108	0.0330579
44.130	103	107	0.0318878
44.140	107	107	0.0307787
44.150	114	106	0.0287274
44.160	98	106	0.0330579
44.170	107	106	0.0307787
44.180	111	106	0.0287274
44.190	109	106	0.0297265
44.200	107	106	0.0307787
44.210	108	106	0.0297265
44.220	106	106	0.0307787
44.230	112	106	0.0287274
44.240	113	106	0.0287274
44.250	96	107	0.0342936
44.260	106	107	0.0307787
44.270	110	107	0.0297265
44.280	121	108	0.0268745
44.290	122	108	0.0268745
44.300	104	108	0.0307787
44.310	110	109	0.0297265
44.320	111	109	0.0287274
44.330	121	110	0.0268745
44.340	100	111	0.0330579
44.350	109	111	0.0297265
44.360	106	112	0.0307787
44.370	121	113	0.0268745
44.380	126	115	0.0260146
44.390	131	116	0.0244141
44.400	126	117	0.0260146
44.410	130	119	0.0251953
44.420	132	121	0.0244141
44.430	127	122	0.0251953
44.440	134	124	0.0244141
44.450	131	125	0.0244141
44.460	137	126	0.0236686
44.470	126	127	0.0260146
44.480	133	128	0.0244141
44.490	126	128	0.0260146
44.500	136	129	0.0236686

44.510	142	129	0.0229568
44.520	135	130	0.0244141
44.530	126	130	0.0260146
44.540	142	131	0.0229568
44.550	131	132	0.0244141
44.560	152	133	0.0216263
44.570	130	133	0.0251953
44.580	134	134	0.0244141
44.590	150	135	0.0216263
44.600	142	136	0.0229568
44.610	130	138	0.0251953
44.620	132	138	0.0244141
44.630	127	137	0.0251953
44.640	120	133	0.0268745
44.650	114	128	0.0287274
44.660	118	124	0.0277778
44.670	110	120	0.0297265
44.680	115	118	0.0277778
44.690	124	116	0.0260146
44.700	115	114	0.0277778
44.710	116	114	0.0277778
44.720	122	114	0.0268745
44.730	119	114	0.0268745
44.740	115	115	0.0277778
44.750	121	116	0.0268745
44.760	129	118	0.0251953
44.770	125	121	0.0260146
44.780	130	124	0.0251953
44.790	132	128	0.0244141
44.800	146	133	0.0222767
44.810	138	138	0.0236686
44.820	148	144	0.0216263
44.830	156	149	0.0204082
44.840	158	152	0.0204082
44.850	154	153	0.0210040
44.860	142	153	0.0229568
44.870	144	151	0.0222767
44.880	158	149	0.0204082
44.890	154	148	0.0210040
44.900	136	147	0.0236686
44.910	144	146	0.0222767
44.920	129	145	0.0251953
44.930	145	144	0.0222767
44.940	126	142	0.0251953
44.950	140	140	0.0229568
44.960	125	137	0.0260146
44.970	124	133	0.0260146
44.980	130	130	0.0244141
44.990	119	126	0.0268745
45.000	129	123	0.0251953

#===END

data_As100

5. CHEMICAL DATA

```
_chemical_name_common      'calcium arsenic phosphorus hydroxylapatite'
_chemical_formula_structural 'Ca5 (As O4)3 OH'
_chemical_formula_sum       'As3 Ca5 H O13'
_chemical_formula_weight    634.1
```

```
loop_
  _atom_type_symbol
  _atom_type_description
  _atom_type_scatter_dispersion_real
  _atom_type_scatter_dispersion_imag
  _atom_type_scatter_source
  _atom_type_scatter_length_neutron    # include if applicable
  ?   ?   ?   ?   ?   ?
```

#=====

6. POWDER SPECIMEN AND CRYSTAL DATA

```
_space_group_crystal_system    hexagonal
_space_group_name_H-M_alt      'P63/m'
```

```
loop_
  _symmetry_equiv_pos_site_id
  _symmetry_equiv_pos_as_xyz    #<--must include 'x,y,z'
  1 '-x, -y, -z'
  2 '-x, -y, z+1/2'
  3 '-x+y, -x, -z+1/2'
  4 '-x+y, -x, z'
  5 '-y, x-y, -z+1/2'
  6 '-y, x-y, z'
  7 'y, -x+y, -z'
  8 'y, -x+y, z+1/2'
  9 'x-y, x, -z'
  10 'x-y, x, z+1/2'
  11 'x, y, -z+1/2'
  12 'x, y, z'
```

```
_cell_length_a 9.7156(3)
_cell_length_b 9.7156(3)
_cell_length_c 6.9857(2)
_cell_angle_alpha 90
_cell_angle_beta 90
_cell_angle_gamma 120
_cell_volume 571.06(3)
_cell_measurement_temperature 293
_cell_special_details
; ?
;
```

```
# The next three fields give the specimen dimensions in mm. The equatorial
# plane contains the incident and diffracted beam.
```

_pd_spec_size_axial 8 # perpendicular to
 # equatorial plane

_pd_spec_size_equat 1 # parallel to
 # scattering vector
 # in transmission

_pd_spec_size_thick 1 # parallel to
 # scattering vector
 # in reflection

The next five fields are character fields that describe the specimen.

_pd_spec_mounting # This field should be
 # used to give details of the
 # container.

;
glass capillary(nominal diameter 1mm)

;
_pd_spec_mount_mode transmission # options are 'reflection'
 # or 'transmission'

_pd_spec_shape cylinder # options are 'cylinder'
 # 'flat_sheet' or 'irregular'

_pd_char_particle_morphology ?
_pd_char_colour white # use ICDD colour descriptions

The next four fields are normally only needed for transmission experiments.

_exptl_absorpt_correction_type none # include if applicable

#=====

7. EXPERIMENTAL DATA

_exptl_special_details
; ?
;

_pd_instr_location
;
X16C, National Synchrotron Light Source, Brookhaven National Laboratory
;

_pd_calibration_special_details # description of the method used
 # to calibrate the instrument

;
NIST standard reference material 1976(sintered plate of Al₂O₃)
7 isolated reflections were used to calibrate wavelength and detector zero.
;

_diffrn_ambient_temperature 293
_diffrn_source synchrotron

```
_diffrn_source_target      ?
_diffrn_source_type        ?
_diffrn_radiation_type     synchrotron
_diffrn_measurement_device_type 'Huber diffractometer'
_diffrn_detector           'NaI scintillation counter'
_diffrn_detector_type      ?      # make or model of detector
```

```
_pd_meas_scan_method      step  # options are 'step', 'cont',
                               # 'tof', 'fixed' or
                               # 'disp' (= dispersive)
_pd_meas_special_details
; ?
;
```

The following six items are used for angular dispersive measurements only.

```
_diffrn_radiation_wavelength 0.69707
_diffrn_radiation_monochromator 'Si(111) double reflection monochromator'
```

The following four items give details of the measured (not processed)
powder pattern. Angles are in degrees.

```
_pd_meas_number_of_points    4301
_pd_meas_2theta_range_min    2.00
_pd_meas_2theta_range_max    45.00
_pd_meas_2theta_range_inc    .01
```

```
#=====
```

8. REFINEMENT DATA

Use the next field to give any special details about the fitting of the
powder pattern.

```
_pd_proc_ls_special_details
;
Rietveld refinement of all structural parameters.
H atom omitted
One common thermal parameter for all atoms
;
```

The next three items are given as text.

```
_pd_proc_ls_profile_function
;
Simple_Axial_Model function in TOPAS
Anisotropic strain broadening 3 parameters refined
;
_pd_proc_ls_background_function
;
Chebyshev polynomial of 7th order plus 1/2theta
;
_pd_proc_ls_pref_orient_corr      'none'
```

```

_pd_proc_ls_prof_R_factor      0.06490
_pd_proc_ls_prof_wR_factor     0.07054
_pd_proc_ls_prof_wR_expected   0.03429
_refine_ls_R_I_factor          ?
_refine_ls_R_Fsqd_factor       ?
_refine_ls_R_factor_all        ?

_refine_special_details
; ?
;

_refine_ls_matrix_type          ?
_refine_ls_weighting_scheme     sigma # options are 'sigma' (based on measured su's)
                                # or 'calc' (calculated weights)
_refine_ls_weighting_details    '1/(sigma*sigma)'
_refine_ls_hydrogen_treatment   none
_refine_ls_extinction_method    'none'
_refine_ls_extinction_coef      ?
_refine_ls_number_parameters    34
_refine_ls_number_restraints    ?
_refine_ls_number_constraints   ?

```

The following item is the same as CHI, the square root of 'CHI squared'

```
_refine_ls_goodness_of_fit_all 2.057
```

```

_refine_ls_restrained_S_all     ?
_refine_ls_shift/su_max         ?
_refine_ls_shift/su_mean        ?

```

The following four items apply to angular dispersive measurements.
2theta minimum, maximum and increment (in degrees) are for the
intensities used in the refinement.

```

_pd_proc_2theta_range_min      2.0
_pd_proc_2theta_range_max      45.00
_pd_proc_2theta_range_inc      0.01
_pd_proc_wavelength             0.69707

```

Each refinement must be accompanied by a listing of the powder data
in CIF format. Each listing should be sent as a separate file consisting
of one data block containing a single powder profile. The value of
`_pd_block_diffraction_id` is used to associate each refinement with
its corresponding powder profile, since it must match the value
of `_pd_block_id` in the file containing the powder data. A template
for supplying powder data in CIF format is available by ftp at
<ftp://ftp.iucr.org/pub/rietdataform.cif> and an example is given
at <ftp://ftp.iucr.org/pub/rietdataxmpl.cif>.

```
_pd_block_diffraction_id      HAP_As100_profile
```

Give appropriate details in the next two text fields.

_pd_proc_info_excluded_regions 'none'
_pd_proc_info_data_reduction ?

The following items are used to identify the programs used.

_computing_data_collection SPEC
_computing_cell_refinement TOPAS
_computing_data_reduction ?
_computing_structure_solution ?
_computing_structure_refinement TOPAS
_computing_molecular_graphics ?
_computing_publication_material ?

#=====

9. ATOMIC COORDINATES AND DISPLACEMENT PARAMETERS

loop_
_atom_site_label
_atom_site_type_symbol
_atom_site_symmetry_multiplicity
_atom_site_fract_x
_atom_site_fract_y
_atom_site_fract_z
_atom_site_occupancy
_atom_site_B_iso_or_equiv
O1 O 6 0.31975(92) 0.49033(82) 0.25 1 1.271(22)
O2 O 6 0.59742(87) 0.46823(87) 0.25 1 1.271(22)
O3 O 12 0.33588(66) 0.24509(63) 0.05623(73) 1 1.271(22)
As1 As 6 0.39816(15) 0.37008(14) 0.25 1 1.271(22)
Ca1 Ca 4 0.3333333 0.6666667 0.00267(59) 1 1.271(22)
Ca2 Ca 6 0.24746(29) 0.99831(33) 0.25 1 1.271(22)
O4 O 4 0 0 0.1919(18) 0.593(12) 1.271(22)

Note: if the displacement parameters were refined anisotropically
the U matrices should be given as for single-crystal studies.

loop_
_atom_site_aniso_label
_atom_site_aniso_U_11
_atom_site_aniso_U_22
_atom_site_aniso_U_33
_atom_site_aniso_U_12
_atom_site_aniso_U_13
_atom_site_aniso_U_23
_atom_site_aniso_type_symbol
? ? ? ? ? ? ? ?

#=====

CIF submission form for powder diffraction data (IUCr journals)

###

Version 11 February 2005 ###

#####

This is an electronic "form" for submitting powder diffraction data in CIF
format to an IUCr journal. The data for each powder profile should be sent
as a separate file consisting of one data block. The value of _pd_block_id
is used to associate each powder profile with a Rietveld refinement, since
it must match the value of _pd_block_diffraction_id in the CIF used to
report the results of the refinement. The current version of the powder
CIF dictionary, which contains definitions of the terms starting _pd_,
may be obtained from <http://www.iucr.org/iucr-top/cif/pd/index.html>.
Note that the query marks '?' are significant as placeholders, and should
not be deleted where a data item is not given, UNLESS the accompanying data
name is also deleted. Lines should not exceed 80 characters in length. The
comments following a hash symbol '#' may be deleted if wished.

data_HAP_As100_pattern

_pd_block_id HAP_As100_pattern

loop_

_pd_proc_2theta_corrected

_pd_proc_intensity_net

_pd_calc_intensity_net

_pd_proc_ls_weight

2.000	456	471	0.0026031
2.010	468	469	0.0025252
2.020	447	466	0.0026298
2.030	462	464	0.0025508
2.040	451	462	0.0026298
2.050	470	460	0.0025000
2.060	448	458	0.0026298
2.070	464	455	0.0025508
2.080	424	453	0.0027995
2.090	493	451	0.0024029
2.100	456	449	0.0025767
2.110	442	447	0.0026570
2.120	439	445	0.0026846
2.130	421	443	0.0027995
2.140	400	441	0.0029537
2.150	442	439	0.0026846
2.160	432	437	0.0027412
2.170	434	435	0.0027127
2.180	460	433	0.0025767
2.190	409	431	0.0028905
2.200	449	429	0.0026298
2.210	452	428	0.0026031
2.220	401	426	0.0029537
2.230	409	424	0.0028905
2.240	434	422	0.0027127
2.250	419	420	0.0028293
2.260	413	419	0.0028597
2.270	423	417	0.0027995

2.280	386	415	0.0030524
2.290	418	413	0.0028293
2.300	450	412	0.0026298
2.310	436	410	0.0027127
2.320	403	408	0.0029218
2.330	404	407	0.0029218
2.340	410	405	0.0028905
2.350	427	403	0.0027701
2.360	359	402	0.0032653
2.370	394	400	0.0029861
2.380	398	398	0.0029537
2.390	388	397	0.0030524
2.400	375	395	0.0031562
2.410	378	394	0.0031210
2.420	406	392	0.0028905
2.430	399	391	0.0029537
2.440	419	389	0.0028293
2.450	387	388	0.0030524
2.460	390	386	0.0030190
2.470	374	385	0.0031562
2.480	379	383	0.0031210
2.490	377	382	0.0031210
2.500	379	380	0.0031210
2.510	378	379	0.0031210
2.520	355	378	0.0033412
2.530	392	376	0.0030190
2.540	349	375	0.0033802
2.550	381	373	0.0030864
2.560	355	372	0.0033412
2.570	374	371	0.0031562
2.580	346	369	0.0034199
2.590	336	368	0.0035013
2.600	360	367	0.0032653
2.610	351	365	0.0033412
2.620	371	364	0.0031919
2.630	389	363	0.0030190
2.640	372	362	0.0031562
2.650	378	360	0.0031210
2.660	345	359	0.0034199
2.670	347	358	0.0033802
2.680	378	357	0.0031210
2.690	346	355	0.0034199
2.700	360	354	0.0032653
2.710	347	353	0.0033802
2.720	332	352	0.0035431
2.730	381	351	0.0030864
2.740	360	349	0.0032653
2.750	353	348	0.0033412
2.760	354	347	0.0033412
2.770	349	346	0.0033802
2.780	370	345	0.0031919
2.790	305	344	0.0038579
2.800	324	343	0.0036290
2.810	372	342	0.0031562

2.820	317	340	0.0037180
2.830	346	339	0.0034199
2.840	356	338	0.0033029
2.850	336	337	0.0035013
2.860	332	336	0.0035431
2.870	317	335	0.0037180
2.880	317	334	0.0037180
2.890	356	333	0.0033029
2.900	307	332	0.0038104
2.910	305	331	0.0038579
2.920	333	330	0.0035431
2.930	335	329	0.0035013
2.940	332	328	0.0035431
2.950	317	327	0.0037180
2.960	374	326	0.0031562
2.970	294	325	0.0040058
2.980	299	324	0.0039555
2.990	317	323	0.0037180
3.000	302	322	0.0039063
3.010	282	321	0.0041623
3.020	313	320	0.0037638
3.030	327	319	0.0035856
3.040	331	318	0.0035431
3.050	330	317	0.0035856
3.060	273	316	0.0042719
3.070	340	315	0.0034602
3.080	319	315	0.0036731
3.090	342	314	0.0034199
3.100	282	313	0.0041623
3.110	304	312	0.0038579
3.120	304	311	0.0038579
3.130	307	310	0.0038104
3.140	306	309	0.0038579
3.150	291	308	0.0040570
3.160	301	308	0.0039063
3.170	296	307	0.0039555
3.180	324	306	0.0036290
3.190	311	305	0.0037638
3.200	306	304	0.0038579
3.210	307	303	0.0038104
3.220	307	303	0.0038104
3.230	289	302	0.0040570
3.240	313	301	0.0037638
3.250	298	300	0.0039555
3.260	339	299	0.0034602
3.270	298	299	0.0039555
3.280	277	298	0.0042166
3.290	299	297	0.0039063
3.300	298	296	0.0039555
3.310	294	295	0.0040058
3.320	308	295	0.0038104
3.330	282	294	0.0041623
3.340	318	293	0.0036731
3.350	284	292	0.0041091

3.360	314	292	0.0037180
3.370	296	291	0.0039555
3.380	305	290	0.0038579
3.390	289	289	0.0040570
3.400	289	289	0.0040570
3.410	269	288	0.0043283
3.420	287	287	0.0040570
3.430	280	287	0.0041623
3.440	297	286	0.0039555
3.450	273	285	0.0042719
3.460	305	285	0.0038579
3.470	295	284	0.0039555
3.480	274	283	0.0042719
3.490	258	282	0.0045043
3.500	293	282	0.0040058
3.510	278	281	0.0042166
3.520	273	280	0.0042719
3.530	257	280	0.0045654
3.540	285	279	0.0041091
3.550	290	278	0.0040570
3.560	251	278	0.0046277
3.570	256	277	0.0045654
3.580	258	277	0.0045654
3.590	279	276	0.0042166
3.600	268	275	0.0043858
3.610	262	275	0.0044444
3.620	300	274	0.0039063
3.630	275	273	0.0042719
3.640	297	273	0.0039555
3.650	236	272	0.0049593
3.660	306	272	0.0038104
3.670	237	271	0.0049593
3.680	248	270	0.0046913
3.690	272	270	0.0042719
3.700	303	269	0.0038579
3.710	227	269	0.0051757
3.720	259	268	0.0045043
3.730	265	267	0.0043858
3.740	287	267	0.0040570
3.750	280	266	0.0041623
3.760	280	266	0.0041623
3.770	297	265	0.0039063
3.780	275	265	0.0042166
3.790	283	264	0.0041091
3.800	278	263	0.0042166
3.810	241	263	0.0048225
3.820	249	262	0.0046913
3.830	266	262	0.0043858
3.840	287	261	0.0040570
3.850	255	261	0.0045654
3.860	253	260	0.0046277
3.870	252	260	0.0046277
3.880	261	259	0.0044444
3.890	259	259	0.0045043

3.900	267	258	0.0043858
3.910	265	258	0.0043858
3.920	275	257	0.0042166
3.930	289	257	0.0040058
3.940	252	256	0.0046277
3.950	243	256	0.0048225
3.960	266	255	0.0043858
3.970	266	255	0.0043858
3.980	265	254	0.0043858
3.990	241	254	0.0048225
4.000	240	253	0.0048225
4.010	250	253	0.0046277
4.020	267	252	0.0043858
4.030	247	252	0.0046913
4.040	283	251	0.0041091
4.050	245	251	0.0047562
4.060	296	250	0.0039063
4.070	260	250	0.0045043
4.080	242	249	0.0048225
4.090	256	249	0.0045654
4.100	268	248	0.0043283
4.110	267	248	0.0043283
4.120	237	247	0.0048902
4.130	286	247	0.0040570
4.140	251	247	0.0046277
4.150	231	246	0.0050299
4.160	264	246	0.0043858
4.170	276	245	0.0042166
4.180	251	245	0.0046277
4.190	252	244	0.0046277
4.200	256	244	0.0045654
4.210	249	244	0.0046913
4.220	252	243	0.0046277
4.230	261	243	0.0044444
4.240	226	243	0.0051020
4.250	227	242	0.0051020
4.260	264	242	0.0043858
4.270	252	242	0.0046277
4.280	266	241	0.0043858
4.290	245	241	0.0047562
4.300	246	241	0.0047562
4.310	240	240	0.0048225
4.320	252	240	0.0046277
4.330	261	240	0.0044444
4.340	260	240	0.0044444
4.350	247	240	0.0046913
4.360	269	240	0.0043283
4.370	236	240	0.0048902
4.380	251	240	0.0046277
4.390	278	240	0.0041623
4.400	242	240	0.0047562
4.410	271	241	0.0042719
4.420	270	241	0.0042719
4.430	293	242	0.0039555

4.440	274	244	0.0042166
4.450	286	247	0.0040570
4.460	253	251	0.0045654
4.470	282	255	0.0041091
4.480	260	259	0.0044444
4.490	297	264	0.0039063
4.500	295	269	0.0039063
4.510	285	275	0.0040570
4.520	310	281	0.0037180
4.530	309	287	0.0037638
4.540	278	294	0.0041623
4.550	317	302	0.0036731
4.560	327	310	0.0035431
4.570	358	319	0.0032283
4.580	373	329	0.0030864
4.590	360	340	0.0032283
4.600	399	352	0.0028905
4.610	415	365	0.0027995
4.620	421	380	0.0027412
4.630	412	397	0.0027995
4.640	450	416	0.0025767
4.650	484	438	0.0023795
4.660	521	464	0.0022250
4.670	539	495	0.0021433
4.680	511	532	0.0022676
4.690	639	579	0.0018108
4.700	653	640	0.0017654
4.710	715	721	0.0016129
4.720	739	835	0.0015623
4.730	955	990	0.0012140
4.740	925	1087	0.0012486
4.750	693	811	0.0016660
4.760	457	503	0.0025252
4.770	374	373	0.0030864
4.780	345	316	0.0033412
4.790	302	286	0.0038104
4.800	305	269	0.0037638
4.810	267	257	0.0043283
4.820	266	250	0.0043283
4.830	274	244	0.0042166
4.840	285	240	0.0040570
4.850	256	237	0.0045043
4.860	278	234	0.0041623
4.870	258	232	0.0045043
4.880	273	231	0.0042166
4.890	216	229	0.0053279
4.900	233	228	0.0049593
4.910	246	227	0.0046913
4.920	248	226	0.0046913
4.930	237	225	0.0048902
4.940	222	224	0.0051757
4.950	221	223	0.0052510
4.960	225	223	0.0051020
4.970	233	222	0.0049593

4.980	251	221	0.0046277
4.990	211	221	0.0054870
5.000	216	220	0.0053279
5.010	232	220	0.0049593
5.020	217	219	0.0053279
5.030	218	219	0.0053279
5.040	223	218	0.0051757
5.050	181	218	0.0064000
5.060	221	217	0.0052510
5.070	229	217	0.0050299
5.080	232	217	0.0049593
5.090	212	216	0.0054066
5.100	209	216	0.0054870
5.110	203	215	0.0056532
5.120	213	215	0.0054066
5.130	215	214	0.0053279
5.140	211	214	0.0054870
5.150	219	213	0.0052510
5.160	214	213	0.0054066
5.170	221	213	0.0051757
5.180	200	213	0.0057392
5.190	188	213	0.0061035
5.200	207	212	0.0055692
5.210	208	212	0.0055692
5.220	211	212	0.0054870
5.230	192	212	0.0060093
5.240	200	211	0.0057392
5.250	221	211	0.0051757
5.260	213	211	0.0054066
5.270	201	211	0.0057392
5.280	199	211	0.0058272
5.290	183	210	0.0062988
5.300	212	210	0.0054066
5.310	217	210	0.0053279
5.320	240	210	0.0048225
5.330	215	210	0.0053279
5.340	203	209	0.0056532
5.350	197	209	0.0058272
5.360	179	209	0.0064000
5.370	201	209	0.0057392
5.380	178	209	0.0065036
5.390	206	208	0.0055692
5.400	197	208	0.0058272
5.410	174	208	0.0066098
5.420	233	208	0.0049593
5.430	184	208	0.0062988
5.440	209	208	0.0054870
5.450	192	207	0.0060093
5.460	205	207	0.0056532
5.470	189	207	0.0061035
5.480	221	207	0.0051757
5.490	209	207	0.0054870
5.500	210	206	0.0054870
5.510	191	206	0.0060093

5.520	213	206	0.0054066
5.530	185	206	0.0062000
5.540	235	206	0.0048902
5.550	204	206	0.0056532
5.560	206	206	0.0055692
5.570	213	205	0.0054066
5.580	197	205	0.0058272
5.590	174	205	0.0066098
5.600	189	205	0.0061035
5.610	200	205	0.0057392
5.620	206	205	0.0055692
5.630	174	204	0.0066098
5.640	198	204	0.0058272
5.650	186	204	0.0062000
5.660	156	204	0.0074316
5.670	205	204	0.0056532
5.680	216	204	0.0053279
5.690	214	204	0.0054066
5.700	209	203	0.0054870
5.710	192	203	0.0060093
5.720	199	203	0.0058272
5.730	180	203	0.0064000
5.740	215	203	0.0053279
5.750	200	203	0.0057392
5.760	187	203	0.0061035
5.770	190	202	0.0061035
5.780	196	202	0.0059172
5.790	200	202	0.0057392
5.800	170	202	0.0068301
5.810	197	202	0.0058272
5.820	218	202	0.0053279
5.830	194	202	0.0059172
5.840	205	202	0.0056532
5.850	184	202	0.0062988
5.860	184	201	0.0062988
5.870	208	201	0.0055692
5.880	203	201	0.0056532
5.890	233	201	0.0049593
5.900	201	201	0.0057392
5.910	194	201	0.0059172
5.920	203	201	0.0056532
5.930	191	201	0.0060093
5.940	154	201	0.0074316
5.950	191	200	0.0060093
5.960	217	200	0.0053279
5.970	225	200	0.0051020
5.980	198	200	0.0058272
5.990	192	200	0.0060093
6.000	186	200	0.0062000
6.010	182	200	0.0062988
6.020	199	200	0.0058272
6.030	179	200	0.0065036
6.040	189	200	0.0061035
6.050	186	199	0.0062000

6.060	211	199	0.0054870
6.070	216	199	0.0053279
6.080	197	199	0.0058272
6.090	182	199	0.0062988
6.100	195	199	0.0059172
6.110	199	199	0.0058272
6.120	229	199	0.0050299
6.130	186	199	0.0062000
6.140	205	199	0.0056532
6.150	188	199	0.0061035
6.160	205	199	0.0056532
6.170	192	199	0.0060093
6.180	199	198	0.0058272
6.190	183	198	0.0062988
6.200	205	198	0.0056532
6.210	205	198	0.0056532
6.220	206	198	0.0055692
6.230	202	198	0.0057392
6.240	205	198	0.0056532
6.250	193	198	0.0060093
6.260	209	198	0.0054870
6.270	200	198	0.0057392
6.280	192	198	0.0060093
6.290	178	198	0.0065036
6.300	197	198	0.0058272
6.310	208	198	0.0055692
6.320	178	198	0.0065036
6.330	168	198	0.0068301
6.340	195	198	0.0059172
6.350	198	198	0.0058272
6.360	186	197	0.0062000
6.370	199	197	0.0058272
6.380	179	197	0.0065036
6.390	179	197	0.0065036
6.400	179	197	0.0065036
6.410	206	197	0.0055692
6.420	204	197	0.0056532
6.430	199	197	0.0058272
6.440	190	197	0.0061035
6.450	196	197	0.0059172
6.460	219	197	0.0052510
6.470	203	197	0.0056532
6.480	193	197	0.0060093
6.490	168	197	0.0068301
6.500	180	197	0.0064000
6.510	187	197	0.0062000
6.520	211	197	0.0054870
6.530	179	197	0.0064000
6.540	210	197	0.0054870
6.550	192	197	0.0060093
6.560	208	197	0.0055692
6.570	200	197	0.0057392
6.580	196	197	0.0059172
6.590	200	197	0.0057392

6.600	185	197	0.0062000
6.610	198	197	0.0058272
6.620	183	197	0.0062988
6.630	200	197	0.0057392
6.640	187	197	0.0062000
6.650	208	197	0.0055692
6.660	204	197	0.0056532
6.670	208	197	0.0055692
6.680	173	197	0.0067186
6.690	200	197	0.0057392
6.700	211	197	0.0054870
6.710	186	197	0.0062000
6.720	217	197	0.0053279
6.730	190	197	0.0061035
6.740	199	197	0.0057392
6.750	167	197	0.0069444
6.760	200	197	0.0057392
6.770	183	197	0.0062988
6.780	198	197	0.0058272
6.790	177	197	0.0065036
6.800	197	197	0.0058272
6.810	209	197	0.0054870
6.820	202	197	0.0057392
6.830	210	197	0.0054870
6.840	186	197	0.0062000
6.850	192	197	0.0060093
6.860	186	197	0.0062000
6.870	209	197	0.0054870
6.880	228	197	0.0050299
6.890	181	197	0.0064000
6.900	193	197	0.0059172
6.910	211	197	0.0054870
6.920	207	197	0.0055692
6.930	168	197	0.0068301
6.940	206	197	0.0055692
6.950	208	197	0.0055692
6.960	179	197	0.0064000
6.970	196	197	0.0059172
6.980	211	198	0.0054870
6.990	185	198	0.0062000
7.000	172	198	0.0067186
7.010	179	198	0.0064000
7.020	188	198	0.0061035
7.030	177	198	0.0065036
7.040	233	198	0.0049593
7.050	197	198	0.0058272
7.060	188	199	0.0061035
7.070	198	199	0.0058272
7.080	205	199	0.0056532
7.090	198	199	0.0058272
7.100	201	199	0.0057392
7.110	194	199	0.0059172
7.120	214	199	0.0054066
7.130	210	200	0.0054870

7.140	192	200	0.0060093
7.150	210	200	0.0054870
7.160	203	200	0.0056532
7.170	207	200	0.0055692
7.180	220	201	0.0052510
7.190	208	201	0.0055692
7.200	186	202	0.0062000
7.210	196	202	0.0059172
7.220	202	203	0.0056532
7.230	229	204	0.0050299
7.240	208	206	0.0055692
7.250	214	209	0.0054066
7.260	209	212	0.0054870
7.270	232	216	0.0049593
7.280	214	221	0.0054066
7.290	228	226	0.0050299
7.300	221	231	0.0051757
7.310	223	237	0.0051757
7.320	236	244	0.0048902
7.330	271	252	0.0042719
7.340	284	262	0.0040570
7.350	278	273	0.0041623
7.360	301	286	0.0038104
7.370	289	302	0.0039555
7.380	321	322	0.0035856
7.390	333	348	0.0034602
7.400	375	383	0.0030524
7.410	401	433	0.0028597
7.420	511	499	0.0022461
7.430	451	519	0.0025508
7.440	339	397	0.0033802
7.450	279	294	0.0041091
7.460	238	251	0.0048225
7.470	252	233	0.0045654
7.480	205	223	0.0055692
7.490	229	217	0.0050299
7.500	240	213	0.0048225
7.510	185	211	0.0062000
7.520	212	209	0.0054066
7.530	252	208	0.0045654
7.540	201	207	0.0057392
7.550	195	207	0.0059172
7.560	217	206	0.0053279
7.570	196	206	0.0059172
7.580	197	205	0.0058272
7.590	220	205	0.0052510
7.600	205	205	0.0055692
7.610	195	205	0.0059172
7.620	202	205	0.0057392
7.630	206	205	0.0055692
7.640	200	205	0.0057392
7.650	193	205	0.0059172
7.660	216	205	0.0053279
7.670	180	205	0.0064000

7.680	193	205	0.0059172
7.690	215	205	0.0053279
7.700	225	205	0.0051020
7.710	196	205	0.0058272
7.720	211	205	0.0054870
7.730	225	205	0.0051020
7.740	206	205	0.0055692
7.750	205	206	0.0056532
7.760	204	206	0.0056532
7.770	228	206	0.0050299
7.780	195	206	0.0059172
7.790	217	207	0.0053279
7.800	199	207	0.0057392
7.810	206	207	0.0055692
7.820	183	207	0.0062988
7.830	207	208	0.0055692
7.840	191	208	0.0060093
7.850	199	208	0.0057392
7.860	206	209	0.0055692
7.870	213	209	0.0054066
7.880	199	209	0.0057392
7.890	213	210	0.0054066
7.900	215	210	0.0053279
7.910	211	210	0.0054066
7.920	214	211	0.0053279
7.930	227	211	0.0051020
7.940	220	212	0.0052510
7.950	227	213	0.0050299
7.960	241	213	0.0047562
7.970	208	214	0.0054870
7.980	262	215	0.0043858
7.990	224	216	0.0051020
8.000	207	217	0.0055692
8.010	208	218	0.0054870
8.020	220	220	0.0052510
8.030	235	223	0.0048902
8.040	224	226	0.0051020
8.050	226	232	0.0051020
8.060	255	241	0.0045043
8.070	264	251	0.0043283
8.080	279	264	0.0041091
8.090	257	278	0.0044444
8.100	311	294	0.0036731
8.110	286	312	0.0040058
8.120	336	333	0.0034199
8.130	334	358	0.0034199
8.140	357	386	0.0031919
8.150	423	419	0.0027127
8.160	420	460	0.0027412
8.170	449	510	0.0025508
8.180	500	575	0.0022893
8.190	566	660	0.0020291
8.200	673	775	0.0017075
8.210	728	922	0.0015747

8.220	812	1012	0.0014133
8.230	722	805	0.0015873
8.240	540	525	0.0021236
8.250	358	385	0.0031919
8.260	320	320	0.0035856
8.270	315	286	0.0036290
8.280	301	266	0.0038104
8.290	263	254	0.0043283
8.300	265	245	0.0043283
8.310	263	240	0.0043283
8.320	290	235	0.0039555
8.330	246	232	0.0046277
8.340	242	230	0.0046913
8.350	224	228	0.0051020
8.360	235	227	0.0048902
8.370	248	226	0.0046277
8.380	254	225	0.0045043
8.390	245	224	0.0046913
8.400	243	223	0.0046913
8.410	249	223	0.0045654
8.420	235	223	0.0048902
8.430	226	222	0.0050299
8.440	229	222	0.0049593
8.450	236	222	0.0048225
8.460	236	222	0.0048225
8.470	210	222	0.0054066
8.480	215	222	0.0053279
8.490	245	222	0.0046277
8.500	240	222	0.0047562
8.510	252	222	0.0045043
8.520	190	222	0.0060093
8.530	247	222	0.0046277
8.540	237	222	0.0048225
8.550	239	222	0.0047562
8.560	221	222	0.0051757
8.570	201	222	0.0056532
8.580	214	222	0.0053279
8.590	230	222	0.0049593
8.600	236	223	0.0048225
8.610	207	223	0.0054870
8.620	209	223	0.0054870
8.630	228	223	0.0050299
8.640	231	223	0.0049593
8.650	237	223	0.0048225
8.660	233	223	0.0048902
8.670	226	223	0.0050299
8.680	202	223	0.0056532
8.690	236	223	0.0048225
8.700	234	224	0.0048902
8.710	220	224	0.0051757
8.720	226	224	0.0050299
8.730	232	224	0.0048902
8.740	191	225	0.0059172
8.750	240	225	0.0047562

8.760	237	225	0.0048225
8.770	217	225	0.0052510
8.780	235	226	0.0048225
8.790	205	226	0.0055692
8.800	237	226	0.0048225
8.810	230	226	0.0049593
8.820	230	227	0.0049593
8.830	260	227	0.0043858
8.840	223	227	0.0051020
8.850	221	227	0.0051757
8.860	198	228	0.0057392
8.870	253	228	0.0045043
8.880	237	228	0.0048225
8.890	225	229	0.0050299
8.900	224	229	0.0051020
8.910	240	229	0.0047562
8.920	249	229	0.0045654
8.930	256	230	0.0044444
8.940	251	230	0.0045043
8.950	260	230	0.0043858
8.960	250	230	0.0045654
8.970	237	231	0.0048225
8.980	238	231	0.0047562
8.990	225	231	0.0050299
9.000	245	232	0.0046277
9.010	199	232	0.0057392
9.020	247	232	0.0045654
9.030	260	232	0.0043858
9.040	240	233	0.0047562
9.050	220	233	0.0051757
9.060	233	233	0.0048902
9.070	271	234	0.0042166
9.080	242	234	0.0046913
9.090	219	234	0.0051757
9.100	256	234	0.0044444
9.110	258	235	0.0043858
9.120	241	235	0.0046913
9.130	229	235	0.0049593
9.140	248	236	0.0045654
9.150	221	236	0.0051020
9.160	226	236	0.0050299
9.170	212	237	0.0053279
9.180	244	237	0.0046277
9.190	248	237	0.0045654
9.200	253	237	0.0045043
9.210	210	238	0.0054066
9.220	228	238	0.0049593
9.230	268	238	0.0042166
9.240	234	239	0.0048902
9.250	241	239	0.0046913
9.260	224	239	0.0051020
9.270	232	240	0.0048902
9.280	270	240	0.0042166
9.290	251	240	0.0045043

9.300	242	240	0.0046913
9.310	238	241	0.0047562
9.320	225	241	0.0050299
9.330	250	241	0.0045654
9.340	257	242	0.0044444
9.350	261	242	0.0043283
9.360	265	242	0.0042719
9.370	226	243	0.0050299
9.380	269	243	0.0042166
9.390	240	244	0.0047562
9.400	249	244	0.0045654
9.410	252	245	0.0045043
9.420	262	245	0.0043283
9.430	256	246	0.0044444
9.440	261	246	0.0043283
9.450	276	247	0.0041091
9.460	299	248	0.0038104
9.470	265	249	0.0042719
9.480	282	250	0.0040058
9.490	268	251	0.0042166
9.500	272	251	0.0041623
9.510	235	250	0.0048225
9.520	282	249	0.0040058
9.530	309	249	0.0036731
9.540	261	249	0.0043283
9.550	271	250	0.0041623
9.560	276	251	0.0041091
9.570	263	252	0.0043283
9.580	260	253	0.0043858
9.590	292	255	0.0039063
9.600	263	256	0.0042719
9.610	262	257	0.0043283
9.620	280	258	0.0040570
9.630	269	258	0.0042166
9.640	276	259	0.0041091
9.650	263	260	0.0042719
9.660	301	261	0.0037638
9.670	280	262	0.0040570
9.680	243	263	0.0046277
9.690	284	264	0.0040058
9.700	310	265	0.0036290
9.710	287	266	0.0039555
9.720	325	267	0.0034602
9.730	302	269	0.0037638
9.740	281	270	0.0040058
9.750	295	272	0.0038104
9.760	303	274	0.0037180
9.770	321	276	0.0035013
9.780	318	278	0.0035431
9.790	317	281	0.0035856
9.800	293	284	0.0038579
9.810	313	288	0.0036290
9.820	304	293	0.0037180
9.830	314	299	0.0035856

9.840	337	306	0.0033412
9.850	349	315	0.0032283
9.860	342	328	0.0033029
9.870	352	348	0.0031919
9.880	389	380	0.0028905
9.890	480	428	0.0023565
9.900	495	491	0.0022893
9.910	588	566	0.0019237
9.920	663	653	0.0017075
9.930	831	756	0.0013616
9.940	861	878	0.0013127
9.950	1013	1023	0.0011186
9.960	1189	1200	0.0009526
9.970	1374	1422	0.0008210
9.980	1588	1708	0.0007111
9.990	1901	2090	0.0005949
10.000	2381	2611	0.0004747
10.010	3059	3254	0.0003698
10.020	3243	3490	0.0003481
10.030	1945	2469	0.0005806
10.040	1261	1400	0.0008964
10.050	898	895	0.0012575
10.060	740	660	0.0015259
10.070	584	535	0.0019407
10.080	531	462	0.0021236
10.090	505	415	0.0022461
10.100	423	384	0.0026846
10.110	393	361	0.0028905
10.120	453	345	0.0025000
10.130	357	333	0.0031562
10.140	377	323	0.0029861
10.150	367	316	0.0030864
10.160	349	310	0.0032283
10.170	335	305	0.0033802
10.180	322	301	0.0035013
10.190	354	298	0.0031919
10.200	335	295	0.0033802
10.210	307	293	0.0036731
10.220	312	291	0.0036290
10.230	334	290	0.0033802
10.240	336	288	0.0033802
10.250	299	287	0.0037638
10.260	339	286	0.0033412
10.270	285	285	0.0039555
10.280	284	284	0.0039555
10.290	289	284	0.0039063
10.300	311	283	0.0036290
10.310	308	283	0.0036731
10.320	296	282	0.0038104
10.330	294	282	0.0038579
10.340	273	282	0.0041623
10.350	313	281	0.0036290
10.360	276	281	0.0041091
10.370	279	281	0.0040570

10.380	273	281	0.0041091
10.390	317	281	0.0035856
10.400	283	280	0.0040058
10.410	278	280	0.0040570
10.420	286	280	0.0039555
10.430	266	279	0.0042166
10.440	288	279	0.0039063
10.450	268	278	0.0042166
10.460	263	276	0.0043283
10.470	282	277	0.0040058
10.480	284	277	0.0040058
10.490	272	277	0.0041623
10.500	269	277	0.0042166
10.510	241	278	0.0046913
10.520	282	278	0.0040058
10.530	273	278	0.0041623
10.540	282	278	0.0040058
10.550	279	279	0.0040570
10.560	244	279	0.0046277
10.570	272	279	0.0041623
10.580	284	280	0.0039555
10.590	273	280	0.0041623
10.600	273	280	0.0041623
10.610	263	280	0.0043283
10.620	265	281	0.0042719
10.630	301	281	0.0037638
10.640	291	281	0.0039063
10.650	272	282	0.0041623
10.660	296	282	0.0038104
10.670	288	282	0.0039063
10.680	274	283	0.0041091
10.690	304	283	0.0037180
10.700	266	283	0.0042719
10.710	288	283	0.0039063
10.720	249	284	0.0045654
10.730	311	284	0.0036290
10.740	287	284	0.0039555
10.750	299	285	0.0037638
10.760	298	285	0.0038104
10.770	267	285	0.0042166
10.780	301	285	0.0037638
10.790	260	286	0.0043283
10.800	263	286	0.0043283
10.810	258	286	0.0043858
10.820	294	287	0.0038579
10.830	293	287	0.0038579
10.840	286	287	0.0039555
10.850	259	288	0.0043858
10.860	295	288	0.0038104
10.870	280	289	0.0040570
10.880	322	289	0.0035013
10.890	327	290	0.0034602
10.900	260	290	0.0043283
10.910	279	291	0.0040570

10.920	287	291	0.0039555
10.930	286	292	0.0039555
10.940	304	294	0.0037180
10.950	272	295	0.0041623
10.960	270	297	0.0042166
10.970	319	301	0.0035431
10.980	333	306	0.0033802
10.990	271	313	0.0041623
11.000	356	321	0.0031919
11.010	320	330	0.0035431
11.020	345	341	0.0032653
11.030	354	355	0.0031919
11.040	373	372	0.0030190
11.050	389	394	0.0029218
11.060	408	423	0.0027701
11.070	451	463	0.0025000
11.080	485	511	0.0023338
11.090	556	544	0.0020291
11.100	434	492	0.0026031
11.110	345	405	0.0032653
11.120	337	358	0.0033412
11.130	351	336	0.0032283
11.140	324	325	0.0035013
11.150	306	319	0.0037180
11.160	308	316	0.0036731
11.170	303	314	0.0037180
11.180	264	314	0.0042719
11.190	290	313	0.0039063
11.200	320	314	0.0035431
11.210	288	315	0.0039063
11.220	322	316	0.0035013
11.230	301	318	0.0037638
11.240	278	320	0.0040570
11.250	318	323	0.0035431
11.260	299	326	0.0038104
11.270	303	331	0.0037180
11.280	311	336	0.0036290
11.290	290	344	0.0039063
11.300	340	354	0.0033412
11.310	330	370	0.0034199
11.320	349	396	0.0032283
11.330	377	442	0.0030190
11.340	450	507	0.0025252
11.350	514	589	0.0022041
11.360	596	687	0.0019069
11.370	728	805	0.0015500
11.380	833	948	0.0013616
11.390	1041	1125	0.0010892
11.400	1227	1351	0.0009239
11.410	1506	1647	0.0007506
11.420	1949	2057	0.0005806
11.430	2609	2638	0.0004340
11.440	3998	3356	0.0002834
11.450	4140	3279	0.0002732

11.460	1503	1892	0.0007547
11.470	871	1069	0.0013033
11.480	653	732	0.0017361
11.490	511	575	0.0022250
11.500	463	490	0.0024507
11.510	447	439	0.0025252
11.520	392	406	0.0028905
11.530	350	383	0.0032283
11.540	390	367	0.0028905
11.550	344	355	0.0033029
11.560	340	346	0.0033412
11.570	337	339	0.0033802
11.580	324	333	0.0035013
11.590	313	328	0.0036290
11.600	321	325	0.0035431
11.610	305	322	0.0037180
11.620	327	319	0.0034602
11.630	292	317	0.0038579
11.640	316	315	0.0035856
11.650	282	313	0.0040058
11.660	274	312	0.0041091
11.670	298	311	0.0038104
11.680	306	310	0.0037180
11.690	305	309	0.0037180
11.700	293	308	0.0038579
11.710	286	307	0.0039555
11.720	313	306	0.0036290
11.730	301	306	0.0037638
11.740	280	305	0.0040570
11.750	304	304	0.0037180
11.760	300	304	0.0037638
11.770	281	303	0.0040058
11.780	273	303	0.0041623
11.790	277	302	0.0041091
11.800	257	302	0.0043858
11.810	281	301	0.0040058
11.820	284	300	0.0039555
11.830	279	298	0.0040570
11.840	281	297	0.0040058
11.850	283	297	0.0040058
11.860	264	297	0.0042719
11.870	281	297	0.0040058
11.880	283	297	0.0040058
11.890	285	297	0.0039555
11.900	282	297	0.0040058
11.910	279	297	0.0040570
11.920	263	297	0.0042719
11.930	275	297	0.0041091
11.940	259	297	0.0043283
11.950	267	297	0.0042166
11.960	262	296	0.0043283
11.970	268	296	0.0042166
11.980	273	296	0.0041623
11.990	260	296	0.0043283

12.000	288	296	0.0039063
12.010	290	296	0.0039063
12.020	291	296	0.0039063
12.030	279	296	0.0040570
12.040	247	296	0.0045654
12.050	255	296	0.0044444
12.060	261	297	0.0043283
12.070	243	297	0.0046277
12.080	299	297	0.0037638
12.090	297	297	0.0038104
12.100	279	297	0.0040570
12.110	292	297	0.0038579
12.120	281	297	0.0040058
12.130	297	297	0.0038104
12.140	290	297	0.0039063
12.150	261	297	0.0043283
12.160	262	297	0.0043283
12.170	284	297	0.0039555
12.180	284	297	0.0039555
12.190	271	297	0.0041623
12.200	265	297	0.0042719
12.210	279	297	0.0040570
12.220	286	297	0.0039555
12.230	287	297	0.0039063
12.240	274	298	0.0041091
12.250	305	298	0.0036731
12.260	311	298	0.0036290
12.270	271	298	0.0041623
12.280	295	299	0.0038104
12.290	273	300	0.0041091
12.300	268	302	0.0042166
12.310	299	303	0.0037638
12.320	304	306	0.0037180
12.330	295	308	0.0038104
12.340	293	312	0.0038579
12.350	305	316	0.0037180
12.360	305	322	0.0036731
12.370	346	329	0.0032653
12.380	349	340	0.0032283
12.390	369	352	0.0030524
12.400	396	355	0.0028293
12.410	350	336	0.0032283
12.420	326	322	0.0034602
12.430	315	318	0.0035856
12.440	320	319	0.0035013
12.450	283	323	0.0039555
12.460	315	331	0.0035856
12.470	342	344	0.0033029
12.480	383	364	0.0029537
12.490	391	389	0.0028905
12.500	406	420	0.0027701
12.510	474	459	0.0023795
12.520	488	507	0.0023114
12.530	506	567	0.0022250

12.540	632	645	0.0017803
12.550	697	746	0.0016129
12.560	833	877	0.0013516
12.570	951	1005	0.0011809
12.580	913	978	0.0012311
12.590	676	740	0.0016660
12.600	508	543	0.0022041
12.610	456	441	0.0024752
12.620	359	388	0.0031210
12.630	386	358	0.0029218
12.640	366	339	0.0030864
12.650	345	327	0.0032653
12.660	313	319	0.0035856
12.670	319	313	0.0035431
12.680	300	308	0.0037638
12.690	287	304	0.0039063
12.700	267	301	0.0042166
12.710	292	299	0.0038579
12.720	282	297	0.0039555
12.730	298	295	0.0037638
12.740	257	294	0.0043858
12.750	305	293	0.0036731
12.760	283	292	0.0039555
12.770	280	291	0.0040058
12.780	250	290	0.0045043
12.790	270	289	0.0041623
12.800	300	288	0.0037180
12.810	254	288	0.0044444
12.820	281	287	0.0040058
12.830	275	287	0.0040570
12.840	288	286	0.0039063
12.850	258	286	0.0043283
12.860	257	285	0.0043858
12.870	267	285	0.0042166
12.880	265	284	0.0042166
12.890	260	284	0.0043283
12.900	293	283	0.0038104
12.910	277	283	0.0040570
12.920	269	282	0.0041623
12.930	283	282	0.0039555
12.940	285	282	0.0039555
12.950	271	281	0.0041091
12.960	284	281	0.0039555
12.970	270	281	0.0041623
12.980	277	280	0.0040570
12.990	266	280	0.0042166
13.000	263	280	0.0042719
13.010	261	279	0.0042719
13.020	277	279	0.0040570
13.030	261	278	0.0042719
13.040	272	278	0.0041091
13.050	250	278	0.0045043
13.060	252	277	0.0044444
13.070	255	277	0.0043858

13.080	258	276	0.0043283
13.090	272	276	0.0041091
13.100	272	275	0.0041091
13.110	302	275	0.0037180
13.120	258	275	0.0043283
13.130	274	274	0.0041091
13.140	292	274	0.0038579
13.150	297	274	0.0037638
13.160	304	273	0.0036731
13.170	261	273	0.0042719
13.180	261	273	0.0042719
13.190	262	273	0.0042719
13.200	254	272	0.0043858
13.210	247	272	0.0045043
13.220	287	272	0.0039063
13.230	267	271	0.0041623
13.240	299	271	0.0037180
13.250	258	271	0.0043283
13.260	242	271	0.0046277
13.270	286	271	0.0039063
13.280	293	271	0.0038104
13.290	300	271	0.0037180
13.300	290	272	0.0038579
13.310	284	273	0.0039063
13.320	284	276	0.0039555
13.330	287	279	0.0039063
13.340	286	279	0.0039063
13.350	281	279	0.0039555
13.360	320	279	0.0035013
13.370	325	279	0.0034199
13.380	306	280	0.0036290
13.390	291	280	0.0038104
13.400	298	280	0.0037638
13.410	281	281	0.0039555
13.420	296	281	0.0037638
13.430	301	282	0.0037180
13.440	301	282	0.0037180
13.450	291	283	0.0038579
13.460	315	284	0.0035431
13.470	308	284	0.0036290
13.480	314	285	0.0035431
13.490	314	286	0.0035431
13.500	312	288	0.0035856
13.510	291	289	0.0038104
13.520	340	291	0.0032653
13.530	296	292	0.0037638
13.540	340	294	0.0032653
13.550	348	297	0.0031919
13.560	350	299	0.0031919
13.570	391	302	0.0028597
13.580	375	306	0.0029861
13.590	407	310	0.0027412
13.600	407	315	0.0027412
13.610	402	320	0.0027701

13.620	419	327	0.0026570
13.630	421	335	0.0026570
13.640	464	344	0.0024029
13.650	469	356	0.0023795
13.660	519	371	0.0021433
13.670	555	389	0.0020109
13.680	554	413	0.0020109
13.690	609	447	0.0018263
13.700	646	490	0.0017217
13.710	670	552	0.0016525
13.720	793	651	0.0014027
13.730	955	806	0.0011648
13.740	1139	1027	0.0009766
13.750	1496	1313	0.0007425
13.760	1776	1671	0.0006250
13.770	2062	2118	0.0005383
13.780	2638	2687	0.0004216
13.790	3285	3424	0.0003379
13.800	4179	4397	0.0002661
13.810	5342	5633	0.0002076
13.820	6678	6734	0.0001661
13.830	5566	6179	0.0001995
13.840	3295	3951	0.0003367
13.850	2140	2337	0.0005189
13.860	1588	1525	0.0006999
13.870	1209	1103	0.0009183
13.880	1048	864	0.0010610
13.890	911	717	0.0012140
13.900	807	621	0.0013717
13.910	701	556	0.0015873
13.920	665	510	0.0016660
13.930	642	478	0.0017217
13.940	615	455	0.0018108
13.950	574	439	0.0019237
13.960	547	430	0.0020291
13.970	568	426	0.0019579
13.980	548	429	0.0020291
13.990	578	438	0.0019237
14.000	594	458	0.0018740
14.010	663	498	0.0016797
14.020	740	569	0.0015023
14.030	770	675	0.0014457
14.040	1025	814	0.0010821
14.050	1182	991	0.0009409
14.060	1430	1216	0.0007759
14.070	1594	1507	0.0006962
14.080	2203	1897	0.0005027
14.090	2651	2433	0.0004182
14.100	3678	3144	0.0003014
14.110	4394	3675	0.0002528
14.120	2693	2908	0.0004114
14.130	1599	1703	0.0006925
14.140	1217	1104	0.0009127
14.150	994	851	0.0011186

14.160	954	751	0.0011648
14.170	936	736	0.0011809
14.180	966	790	0.0011491
14.190	1075	903	0.0010339
14.200	1151	1070	0.0009645
14.210	1429	1292	0.0007759
14.220	1608	1582	0.0006889
14.230	1937	1959	0.0005723
14.240	2335	2454	0.0004747
14.250	2834	3094	0.0003921
14.260	3545	3795	0.0003133
14.270	3691	4008	0.0003004
14.280	2768	3081	0.0004000
14.290	1777	1925	0.0006250
14.300	1251	1248	0.0008858
14.310	1025	893	0.0010821
14.320	852	695	0.0013033
14.330	679	573	0.0016391
14.340	611	492	0.0018108
14.350	593	438	0.0018740
14.360	477	400	0.0023338
14.370	476	372	0.0023338
14.380	488	350	0.0022676
14.390	424	334	0.0026298
14.400	411	320	0.0026846
14.410	361	309	0.0030864
14.420	383	300	0.0028905
14.430	376	293	0.0029537
14.440	354	287	0.0031210
14.450	338	282	0.0032653
14.460	312	279	0.0035431
14.470	307	274	0.0036290
14.480	319	271	0.0034602
14.490	306	267	0.0036290
14.500	325	264	0.0034199
14.510	283	262	0.0039063
14.520	279	259	0.0039555
14.530	297	257	0.0037180
14.540	272	254	0.0040570
14.550	265	251	0.0041623
14.560	272	250	0.0040570
14.570	288	249	0.0038579
14.580	273	248	0.0040570
14.590	284	247	0.0039063
14.600	281	246	0.0039555
14.610	254	246	0.0043858
14.620	267	246	0.0041623
14.630	272	245	0.0040570
14.640	303	245	0.0036731
14.650	307	245	0.0036290
14.660	273	246	0.0040570
14.670	265	246	0.0042166
14.680	278	247	0.0040058
14.690	249	248	0.0044444

14.700	293	249	0.0038104
14.710	279	251	0.0039555
14.720	271	253	0.0041091
14.730	259	256	0.0042719
14.740	297	259	0.0037180
14.750	291	264	0.0038104
14.760	291	270	0.0038104
14.770	297	279	0.0037180
14.780	305	291	0.0036290
14.790	338	310	0.0033029
14.800	362	342	0.0030524
14.810	438	394	0.0025252
14.820	488	470	0.0022676
14.830	599	573	0.0018579
14.840	711	704	0.0015623
14.850	857	872	0.0012939
14.860	1163	1092	0.0009526
14.870	1398	1390	0.0007935
14.880	1788	1793	0.0006219
14.890	2398	2240	0.0004625
14.900	1930	2197	0.0005751
14.910	1132	1417	0.0009827
14.920	771	846	0.0014457
14.930	560	580	0.0019753
14.940	497	450	0.0022250
14.950	434	378	0.0025508
14.960	374	335	0.0029861
14.970	327	306	0.0033802
14.980	302	287	0.0036731
14.990	284	273	0.0039063
15.000	297	263	0.0037180
15.010	263	255	0.0042166
15.020	265	248	0.0042166
15.030	246	243	0.0045043
15.040	281	239	0.0039555
15.050	237	236	0.0046913
15.060	236	233	0.0046913
15.070	216	231	0.0051757
15.080	226	229	0.0048902
15.090	251	227	0.0044444
15.100	208	225	0.0053279
15.110	233	224	0.0047562
15.120	253	223	0.0043858
15.130	228	222	0.0048902
15.140	192	221	0.0058272
15.150	226	220	0.0049593
15.160	235	219	0.0047562
15.170	224	219	0.0049593
15.180	214	218	0.0051757
15.190	198	218	0.0056532
15.200	225	217	0.0049593
15.210	216	217	0.0051757
15.220	218	217	0.0051020
15.230	234	217	0.0047562

15.240	227	218	0.0048902
15.250	237	218	0.0046913
15.260	231	219	0.0048225
15.270	221	221	0.0050299
15.280	205	224	0.0054066
15.290	228	228	0.0048902
15.300	239	236	0.0046277
15.310	261	247	0.0042719
15.320	263	262	0.0042166
15.330	275	281	0.0040570
15.340	308	305	0.0036290
15.350	352	336	0.0031562
15.360	404	378	0.0027701
15.370	413	429	0.0026846
15.380	484	468	0.0022893
15.390	465	436	0.0024029
15.400	314	349	0.0035431
15.410	270	287	0.0041091
15.420	263	254	0.0042166
15.430	224	236	0.0049593
15.440	229	226	0.0048225
15.450	220	219	0.0050299
15.460	224	215	0.0049593
15.470	219	212	0.0051020
15.480	186	209	0.0060093
15.490	194	208	0.0057392
15.500	181	206	0.0062000
15.510	207	205	0.0054066
15.520	183	204	0.0061035
15.530	207	203	0.0054066
15.540	199	202	0.0055692
15.550	193	202	0.0057392
15.560	203	201	0.0054870
15.570	205	200	0.0054066
15.580	186	200	0.0060093
15.590	192	199	0.0057392
15.600	166	199	0.0067186
15.610	162	199	0.0068301
15.620	169	198	0.0066098
15.630	180	198	0.0062000
15.640	184	197	0.0060093
15.650	197	197	0.0056532
15.660	191	197	0.0058272
15.670	192	196	0.0057392
15.680	184	196	0.0060093
15.690	177	196	0.0062988
15.700	161	196	0.0069444
15.710	196	195	0.0056532
15.720	175	195	0.0062988
15.730	192	195	0.0058272
15.740	178	194	0.0062000
15.750	157	194	0.0070616
15.760	165	194	0.0067186
15.770	195	194	0.0057392

15.780	178	193	0.0062000
15.790	202	193	0.0054870
15.800	171	193	0.0065036
15.810	169	193	0.0066098
15.820	200	192	0.0055692
15.830	183	192	0.0061035
15.840	171	192	0.0065036
15.850	156	192	0.0071818
15.860	172	191	0.0065036
15.870	162	191	0.0068301
15.880	148	191	0.0074316
15.890	176	191	0.0062988
15.900	192	190	0.0058272
15.910	182	190	0.0061035
15.920	179	190	0.0062000
15.930	196	189	0.0056532
15.940	165	189	0.0067186
15.950	171	189	0.0065036
15.960	174	189	0.0064000
15.970	167	189	0.0067186
15.980	167	188	0.0067186
15.990	179	188	0.0062000
16.000	174	188	0.0064000
16.010	170	188	0.0065036
16.020	163	188	0.0068301
16.030	167	187	0.0067186
16.040	176	187	0.0062988
16.050	200	187	0.0055692
16.060	171	187	0.0065036
16.070	191	187	0.0058272
16.080	187	186	0.0059172
16.090	161	186	0.0068301
16.100	184	186	0.0060093
16.110	163	186	0.0068301
16.120	149	186	0.0074316
16.130	191	185	0.0058272
16.140	172	185	0.0064000
16.150	158	185	0.0070616
16.160	153	185	0.0071818
16.170	162	185	0.0068301
16.180	175	184	0.0062988
16.190	178	184	0.0062000
16.200	176	184	0.0062988
16.210	139	184	0.0079719
16.220	158	184	0.0070616
16.230	181	183	0.0061035
16.240	162	183	0.0068301
16.250	187	183	0.0059172
16.260	168	183	0.0066098
16.270	149	183	0.0074316
16.280	152	182	0.0073051
16.290	165	182	0.0067186
16.300	181	182	0.0061035
16.310	189	182	0.0058272

16.320	153	182	0.0071818
16.330	162	182	0.0068301
16.340	166	181	0.0067186
16.350	158	181	0.0070616
16.360	165	181	0.0067186
16.370	148	181	0.0074316
16.380	162	181	0.0068301
16.390	148	181	0.0074316
16.400	172	181	0.0065036
16.410	149	180	0.0074316
16.420	161	180	0.0069444
16.430	175	180	0.0062988
16.440	154	180	0.0071818
16.450	154	180	0.0071818
16.460	174	181	0.0064000
16.470	172	181	0.0065036
16.480	162	181	0.0068301
16.490	171	181	0.0065036
16.500	182	181	0.0061035
16.510	184	180	0.0060093
16.520	145	179	0.0076947
16.530	168	179	0.0066098
16.540	145	178	0.0075614
16.550	175	178	0.0062988
16.560	139	178	0.0079719
16.570	158	178	0.0069444
16.580	172	178	0.0064000
16.590	164	178	0.0067186
16.600	153	178	0.0071818
16.610	162	178	0.0068301
16.620	148	178	0.0074316
16.630	164	178	0.0067186
16.640	151	178	0.0073051
16.650	150	177	0.0073051
16.660	174	177	0.0064000
16.670	157	177	0.0070616
16.680	149	177	0.0074316
16.690	150	177	0.0073051
16.700	169	177	0.0065036
16.710	149	177	0.0074316
16.720	169	177	0.0065036
16.730	169	177	0.0065036
16.740	149	177	0.0074316
16.750	162	177	0.0068301
16.760	182	177	0.0061035
16.770	160	177	0.0069444
16.780	138	177	0.0079719
16.790	143	176	0.0076947
16.800	164	176	0.0067186
16.810	161	177	0.0068301
16.820	164	177	0.0067186
16.830	141	177	0.0078315
16.840	165	177	0.0067186
16.850	157	177	0.0070616

16.860	148	177	0.0074316
16.870	152	177	0.0073051
16.880	160	177	0.0069444
16.890	150	178	0.0073051
16.900	146	178	0.0075614
16.910	159	179	0.0069444
16.920	158	180	0.0069444
16.930	167	180	0.0066098
16.940	166	181	0.0066098
16.950	180	182	0.0061035
16.960	187	184	0.0059172
16.970	202	187	0.0054870
16.980	161	190	0.0068301
16.990	208	195	0.0053279
17.000	206	201	0.0053279
17.010	200	208	0.0054870
17.020	256	218	0.0043283
17.030	237	230	0.0046277
17.040	251	237	0.0043858
17.050	221	229	0.0049593
17.060	251	221	0.0043858
17.070	232	221	0.0047562
17.080	211	229	0.0052510
17.090	253	245	0.0043283
17.100	284	272	0.0038579
17.110	298	310	0.0037180
17.120	318	362	0.0034602
17.130	377	429	0.0029218
17.140	502	517	0.0022041
17.150	588	628	0.0018740
17.160	784	752	0.0014027
17.170	818	814	0.0013418
17.180	649	698	0.0016935
17.190	478	505	0.0023114
17.200	337	375	0.0032653
17.210	295	303	0.0037180
17.220	247	263	0.0044444
17.230	266	238	0.0041091
17.240	221	223	0.0049593
17.250	215	213	0.0051020
17.260	204	206	0.0054066
17.270	200	201	0.0054870
17.280	175	198	0.0062988
17.290	200	195	0.0054870
17.300	180	194	0.0061035
17.310	190	193	0.0057392
17.320	203	194	0.0054066
17.330	217	194	0.0050299
17.340	187	196	0.0058272
17.350	214	199	0.0051757
17.360	202	204	0.0054066
17.370	187	211	0.0059172
17.380	219	222	0.0050299
17.390	220	241	0.0049593

17.400	243	269	0.0045043
17.410	295	309	0.0037180
17.420	319	362	0.0034602
17.430	392	432	0.0027995
17.440	461	523	0.0023795
17.450	590	637	0.0018579
17.460	700	756	0.0015747
17.470	797	782	0.0013717
17.480	584	632	0.0018740
17.490	416	450	0.0026298
17.500	334	339	0.0033029
17.510	264	279	0.0041623
17.520	258	245	0.0042719
17.530	222	225	0.0049593
17.540	218	212	0.0050299
17.550	189	202	0.0058272
17.560	199	196	0.0054870
17.570	218	191	0.0050299
17.580	178	187	0.0062000
17.590	173	184	0.0062988
17.600	168	182	0.0065036
17.610	171	180	0.0064000
17.620	158	179	0.0069444
17.630	174	177	0.0062988
17.640	179	176	0.0061035
17.650	168	175	0.0065036
17.660	147	175	0.0074316
17.670	181	174	0.0061035
17.680	176	174	0.0062000
17.690	152	173	0.0071818
17.700	163	173	0.0067186
17.710	146	172	0.0075614
17.720	175	172	0.0062000
17.730	166	172	0.0066098
17.740	174	172	0.0062988
17.750	132	171	0.0082645
17.760	174	171	0.0062988
17.770	140	171	0.0078315
17.780	151	171	0.0073051
17.790	165	171	0.0066098
17.800	154	171	0.0070616
17.810	152	172	0.0071818
17.820	196	172	0.0055692
17.830	162	173	0.0067186
17.840	193	173	0.0056532
17.850	164	174	0.0067186
17.860	163	175	0.0067186
17.870	183	175	0.0060093
17.880	166	175	0.0066098
17.890	182	176	0.0060093
17.900	178	177	0.0062000
17.910	188	178	0.0058272
17.920	180	179	0.0060093
17.930	176	181	0.0062000

17.940	179	183	0.0061035
17.950	174	186	0.0062988
17.960	187	189	0.0058272
17.970	190	193	0.0057392
17.980	222	198	0.0049593
17.990	201	204	0.0054066
18.000	233	213	0.0046913
18.010	252	226	0.0043283
18.020	247	244	0.0043858
18.030	285	272	0.0038104
18.040	310	316	0.0035431
18.050	369	381	0.0029537
18.060	513	471	0.0021236
18.070	532	589	0.0020475
18.080	728	744	0.0015023
18.090	927	943	0.0011809
18.100	1140	1170	0.0009585
18.110	1321	1302	0.0008257
18.120	929	1126	0.0011728
18.130	616	781	0.0017654
18.140	445	535	0.0024507
18.150	390	400	0.0027995
18.160	287	325	0.0038104
18.170	291	280	0.0037638
18.180	239	252	0.0045654
18.190	228	234	0.0047562
18.200	197	221	0.0055692
18.210	209	212	0.0052510
18.220	202	206	0.0054066
18.230	214	202	0.0051020
18.240	178	200	0.0061035
18.250	178	201	0.0061035
18.260	195	206	0.0055692
18.270	200	215	0.0054870
18.280	213	229	0.0051020
18.290	236	249	0.0046277
18.300	253	277	0.0043283
18.310	275	315	0.0039555
18.320	306	361	0.0035431
18.330	393	397	0.0027701
18.340	336	369	0.0032653
18.350	246	293	0.0044444
18.360	225	239	0.0048225
18.370	187	210	0.0058272
18.380	200	195	0.0054870
18.390	170	186	0.0064000
18.400	182	181	0.0060093
18.410	185	177	0.0059172
18.420	182	174	0.0060093
18.430	162	172	0.0067186
18.440	160	170	0.0068301
18.450	161	169	0.0067186
18.460	142	168	0.0076947
18.470	128	167	0.0085734

18.480	151	166	0.0071818
18.490	180	165	0.0061035
18.500	151	165	0.0071818
18.510	158	164	0.0069444
18.520	163	164	0.0067186
18.530	163	164	0.0067186
18.540	137	163	0.0079719
18.550	172	163	0.0064000
18.560	156	163	0.0069444
18.570	153	162	0.0070616
18.580	149	162	0.0073051
18.590	157	162	0.0069444
18.600	134	162	0.0081162
18.610	159	161	0.0068301
18.620	150	161	0.0073051
18.630	149	161	0.0073051
18.640	170	161	0.0064000
18.650	161	161	0.0067186
18.660	138	161	0.0079719
18.670	151	161	0.0071818
18.680	161	160	0.0067186
18.690	140	160	0.0078315
18.700	131	160	0.0082645
18.710	178	159	0.0061035
18.720	132	159	0.0082645
18.730	129	159	0.0084168
18.740	161	159	0.0067186
18.750	153	159	0.0070616
18.760	165	159	0.0066098
18.770	158	159	0.0069444
18.780	141	159	0.0076947
18.790	135	159	0.0081162
18.800	131	159	0.0082645
18.810	137	159	0.0079719
18.820	132	159	0.0082645
18.830	161	159	0.0067186
18.840	150	159	0.0073051
18.850	157	159	0.0069444
18.860	153	158	0.0071818
18.870	136	158	0.0079719
18.880	160	158	0.0068301
18.890	146	158	0.0074316
18.900	144	159	0.0075614
18.910	137	159	0.0079719
18.920	148	159	0.0073051
18.930	145	159	0.0075614
18.940	162	159	0.0067186
18.950	146	159	0.0074316
18.960	157	160	0.0069444
18.970	149	160	0.0073051
18.980	144	161	0.0075614
18.990	157	161	0.0069444
19.000	148	162	0.0074316
19.010	149	164	0.0073051

19.020	148	166	0.0074316
19.030	155	170	0.0070616
19.040	146	177	0.0074316
19.050	167	186	0.0065036
19.060	179	200	0.0061035
19.070	222	217	0.0048902
19.080	214	242	0.0051020
19.090	259	273	0.0042166
19.100	301	296	0.0036290
19.110	226	265	0.0048225
19.120	195	215	0.0055692
19.130	160	189	0.0068301
19.140	158	176	0.0069444
19.150	149	170	0.0073051
19.160	148	166	0.0073051
19.170	158	164	0.0069444
19.180	149	162	0.0073051
19.190	139	161	0.0078315
19.200	135	160	0.0081162
19.210	152	160	0.0071818
19.220	159	159	0.0068301
19.230	149	159	0.0073051
19.240	146	159	0.0074316
19.250	152	158	0.0071818
19.260	138	158	0.0079719
19.270	172	158	0.0064000
19.280	156	158	0.0069444
19.290	155	158	0.0070616
19.300	158	158	0.0069444
19.310	154	158	0.0070616
19.320	147	158	0.0074316
19.330	120	158	0.0090703
19.340	155	158	0.0070616
19.350	150	158	0.0073051
19.360	160	158	0.0068301
19.370	156	158	0.0069444
19.380	129	157	0.0084168
19.390	133	157	0.0081162
19.400	135	157	0.0081162
19.410	135	157	0.0081162
19.420	167	157	0.0065036
19.430	150	157	0.0073051
19.440	154	157	0.0070616
19.450	126	157	0.0087344
19.460	140	157	0.0076947
19.470	142	158	0.0076947
19.480	149	158	0.0073051
19.490	150	158	0.0073051
19.500	158	158	0.0069444
19.510	140	158	0.0076947
19.520	139	158	0.0078315
19.530	171	158	0.0064000
19.540	162	159	0.0067186
19.550	164	159	0.0066098

19.560	154	160	0.0070616
19.570	151	161	0.0071818
19.580	166	162	0.0065036
19.590	147	162	0.0074316
19.600	162	163	0.0067186
19.610	168	164	0.0065036
19.620	155	166	0.0070616
19.630	168	169	0.0065036
19.640	154	174	0.0070616
19.650	184	181	0.0059172
19.660	184	190	0.0059172
19.670	197	202	0.0055692
19.680	238	219	0.0045654
19.690	224	234	0.0048902
19.700	224	224	0.0048902
19.710	171	197	0.0064000
19.720	192	182	0.0056532
19.730	175	175	0.0062000
19.740	175	172	0.0062000
19.750	171	170	0.0064000
19.760	183	170	0.0059172
19.770	177	170	0.0061035
19.780	158	170	0.0069444
19.790	154	171	0.0070616
19.800	186	172	0.0058272
19.810	180	174	0.0060093
19.820	182	176	0.0060093
19.830	162	180	0.0067186
19.840	171	184	0.0064000
19.850	192	192	0.0056532
19.860	214	203	0.0051020
19.870	195	218	0.0055692
19.880	247	240	0.0043858
19.890	284	268	0.0038104
19.900	337	303	0.0032283
19.910	382	342	0.0028597
19.920	369	364	0.0029537
19.930	338	338	0.0032283
19.940	294	285	0.0037180
19.950	235	248	0.0046277
19.960	229	229	0.0047562
19.970	254	220	0.0042719
19.980	223	218	0.0048902
19.990	261	220	0.0041623
20.000	230	225	0.0187652
20.010	254	234	0.0168663
20.020	254	248	0.0168663
20.030	275	270	0.0156250
20.040	318	302	0.0135208
20.050	373	353	0.0115620
20.060	427	437	0.0100000
20.070	547	564	0.0078315
20.080	688	744	0.0062000
20.090	890	986	0.0048225

20.100	1215	1305	0.0035013
20.110	1633	1691	0.0026298
20.120	2175	1992	0.0019753
20.130	1883	1817	0.0022676
20.140	1152	1242	0.0037180
20.150	786	798	0.0054066
20.160	577	556	0.0074316
20.170	460	424	0.0092456
20.180	382	347	0.0113173
20.190	335	299	0.0129132
20.200	293	267	0.0145159
20.210	284	244	0.0152416
20.220	266	228	0.0160231
20.230	236	216	0.0182615
20.240	230	207	0.0187652
20.250	227	200	0.0187652
20.260	204	194	0.0210040
20.270	202	190	0.0210040
20.280	196	186	0.0216263
20.290	200	183	0.0216263
20.300	197	180	0.0216263
20.310	200	178	0.0216263
20.320	186	176	0.0229568
20.330	180	174	0.0236686
20.340	171	173	0.0251953
20.350	184	172	0.0236686
20.360	169	171	0.0251953
20.370	174	170	0.0244141
20.380	182	169	0.0236686
20.390	163	168	0.0260146
20.400	171	167	0.0251953
20.410	173	167	0.0244141
20.420	181	166	0.0236686
20.430	161	166	0.0268745
20.440	179	166	0.0244141
20.450	170	165	0.0251953
20.460	168	165	0.0251953
20.470	164	165	0.0260146
20.480	168	165	0.0251953
20.490	162	165	0.0268745
20.500	166	165	0.0260146
20.510	169	165	0.0251953
20.520	167	165	0.0260146
20.530	166	165	0.0260146
20.540	164	165	0.0260146
20.550	178	165	0.0244141
20.560	178	165	0.0244141
20.570	167	166	0.0260146
20.580	169	167	0.0251953
20.590	166	167	0.0260146
20.600	169	169	0.0251953
20.610	172	171	0.0251953
20.620	183	173	0.0236686
20.630	171	178	0.0251953

20.640	188	184	0.0229568
20.650	209	192	0.0204082
20.660	200	203	0.0216263
20.670	230	217	0.0187652
20.680	252	231	0.0173130
20.690	265	235	0.0164366
20.700	244	223	0.0177778
20.710	228	212	0.0187652
20.720	214	211	0.0204082
20.730	222	220	0.0192901
20.740	252	240	0.0173130
20.750	262	270	0.0164366
20.760	312	312	0.0138408
20.770	359	368	0.0120758
20.780	431	434	0.0100000
20.790	516	493	0.0084168
20.800	511	491	0.0084168
20.810	416	409	0.0104123
20.820	320	318	0.0135208
20.830	263	260	0.0164366
20.840	233	227	0.0182615
20.850	208	207	0.0210040
20.860	202	195	0.0210040
20.870	188	187	0.0229568
20.880	186	183	0.0229568
20.890	183	179	0.0236686
20.900	170	176	0.0251953
20.910	179	174	0.0244141
20.920	168	172	0.0260146
20.930	170	171	0.0251953
20.940	170	171	0.0251953
20.950	173	170	0.0251953
20.960	170	170	0.0251953
20.970	181	169	0.0236686
20.980	160	169	0.0268745
20.990	174	169	0.0251953
21.000	176	169	0.0244141
21.010	168	169	0.0260146
21.020	171	169	0.0251953
21.030	162	169	0.0268745
21.040	174	170	0.0244141
21.050	177	170	0.0244141
21.060	175	170	0.0244141
21.070	184	171	0.0236686
21.080	182	172	0.0236686
21.090	168	172	0.0260146
21.100	183	173	0.0236686
21.110	177	174	0.0244141
21.120	195	175	0.0222767
21.130	197	176	0.0216263
21.140	183	178	0.0236686
21.150	187	179	0.0229568
21.160	193	181	0.0222767
21.170	196	184	0.0222767

21.180	188	186	0.0229568
21.190	198	189	0.0216263
21.200	210	193	0.0204082
21.210	210	197	0.0204082
21.220	207	202	0.0210040
21.230	214	209	0.0204082
21.240	228	217	0.0187652
21.250	246	227	0.0177778
21.260	266	240	0.0164366
21.270	274	258	0.0160231
21.280	298	283	0.0145159
21.290	341	320	0.0126247
21.300	383	378	0.0113173
21.310	475	475	0.0090703
21.320	586	637	0.0074316
21.330	843	879	0.0051757
21.340	1164	1218	0.0037180
21.350	1556	1681	0.0027995
21.360	2235	2285	0.0019407
21.370	3227	2834	0.0013418
21.380	2988	2616	0.0014457
21.390	1729	1672	0.0025000
21.400	1081	1003	0.0040058
21.410	753	672	0.0057392
21.420	606	502	0.0071818
21.430	501	407	0.0087344
21.440	425	350	0.0102030
21.450	382	315	0.0113173
21.460	350	292	0.0123457
21.470	326	278	0.0132118
21.480	339	272	0.0129132
21.490	313	271	0.0138408
21.500	328	278	0.0132118
21.510	327	294	0.0132118
21.520	364	323	0.0118147
21.530	400	373	0.0108507
21.540	418	449	0.0104123
21.550	528	554	0.0082645
21.560	657	692	0.0066098
21.570	830	857	0.0052510
21.580	1026	997	0.0042166
21.590	1023	969	0.0042719
21.600	795	751	0.0054870
21.610	553	538	0.0078315
21.620	439	406	0.0100000
21.630	355	330	0.0123457
21.640	328	284	0.0132118
21.650	285	255	0.0152416
21.660	260	236	0.0168663
21.670	251	222	0.0173130
21.680	230	213	0.0187652
21.690	225	206	0.0192901
21.700	216	200	0.0204082
21.710	208	196	0.0210040

21.720	218	193	0.0198373
21.730	200	191	0.0216263
21.740	215	190	0.0204082
21.750	201	189	0.0216263
21.760	205	189	0.0210040
21.770	205	190	0.0210040
21.780	191	193	0.0229568
21.790	201	196	0.0216263
21.800	219	203	0.0198373
21.810	211	213	0.0204082
21.820	236	229	0.0182615
21.830	251	254	0.0173130
21.840	302	288	0.0145159
21.850	341	333	0.0126247
21.860	397	386	0.0110803
21.870	489	434	0.0089000
21.880	500	434	0.0087344
21.890	402	371	0.0108507
21.900	316	299	0.0138408
21.910	264	250	0.0164366
21.920	225	222	0.0192901
21.930	216	204	0.0204082
21.940	193	194	0.0229568
21.950	189	186	0.0229568
21.960	190	181	0.0229568
21.970	174	178	0.0251953
21.980	170	175	0.0260146
21.990	165	173	0.0260146
22.000	165	172	0.0260146
22.010	175	170	0.0251953
22.020	167	169	0.0260146
22.030	163	169	0.0268745
22.040	167	168	0.0260146
22.050	165	168	0.0260146
22.060	171	167	0.0251953
22.070	168	167	0.0260146
22.080	155	167	0.0277778
22.090	163	167	0.0268745
22.100	149	167	0.0297265
22.110	161	167	0.0268745
22.120	151	167	0.0287274
22.130	172	167	0.0251953
22.140	155	167	0.0277778
22.150	167	168	0.0260146
22.160	159	169	0.0277778
22.170	169	170	0.0260146
22.180	161	171	0.0268745
22.190	163	172	0.0268745
22.200	165	174	0.0260146
22.210	175	178	0.0251953
22.220	168	182	0.0260146
22.230	183	190	0.0236686
22.240	186	201	0.0236686
22.250	206	219	0.0210040

22.260	228	245	0.0192901
22.270	253	280	0.0173130
22.280	316	323	0.0138408
22.290	382	364	0.0115620
22.300	390	366	0.0110803
22.310	309	313	0.0141723
22.320	245	257	0.0177778
22.330	216	223	0.0204082
22.340	199	204	0.0222767
22.350	198	194	0.0222767
22.360	192	190	0.0229568
22.370	189	189	0.0229568
22.380	177	193	0.0244141
22.390	188	200	0.0229568
22.400	198	212	0.0222767
22.410	210	229	0.0210040
22.420	236	248	0.0187652
22.430	248	252	0.0177778
22.440	222	228	0.0198373
22.450	199	202	0.0222767
22.460	180	187	0.0244141
22.470	179	180	0.0244141
22.480	164	176	0.0268745
22.490	164	174	0.0268745
22.500	168	173	0.0260146
22.510	163	173	0.0268745
22.520	160	173	0.0268745
22.530	164	174	0.0268745
22.540	171	176	0.0260146
22.550	178	180	0.0244141
22.560	172	185	0.0251953
22.570	187	193	0.0236686
22.580	194	206	0.0222767
22.590	205	224	0.0216263
22.600	232	248	0.0187652
22.610	257	278	0.0168663
22.620	319	310	0.0138408
22.630	335	323	0.0132118
22.640	304	296	0.0145159
22.650	252	252	0.0173130
22.660	229	220	0.0192901
22.670	201	202	0.0216263
22.680	178	191	0.0244141
22.690	182	184	0.0244141
22.700	188	180	0.0229568
22.710	171	177	0.0251953
22.720	175	175	0.0251953
22.730	166	174	0.0260146
22.740	169	173	0.0260146
22.750	166	172	0.0260146
22.760	160	172	0.0268745
22.770	165	172	0.0268745
22.780	168	172	0.0260146
22.790	169	172	0.0260146

22.800	163	173	0.0268745
22.810	171	173	0.0260146
22.820	154	174	0.0287274
22.830	178	175	0.0244141
22.840	169	177	0.0260146
22.850	160	178	0.0277778
22.860	160	180	0.0277778
22.870	176	183	0.0251953
22.880	170	186	0.0260146
22.890	179	190	0.0244141
22.900	179	196	0.0244141
22.910	195	203	0.0222767
22.920	196	213	0.0222767
22.930	193	227	0.0229568
22.940	222	249	0.0198373
22.950	232	286	0.0187652
22.960	295	350	0.0148721
22.970	387	458	0.0113173
22.980	537	620	0.0081162
22.990	786	850	0.0055692
23.000	1150	1165	0.0038104
23.010	1895	1517	0.0023114
23.020	1863	1518	0.0023565
23.030	996	996	0.0043858
23.040	588	604	0.0074316
23.050	411	417	0.0106281
23.060	343	325	0.0129132
23.070	282	275	0.0156250
23.080	264	245	0.0164366
23.090	246	225	0.0177778
23.100	224	211	0.0192901
23.110	204	202	0.0216263
23.120	195	195	0.0222767
23.130	209	190	0.0210040
23.140	196	186	0.0222767
23.150	194	183	0.0222767
23.160	189	180	0.0229568
23.170	192	179	0.0229568
23.180	184	177	0.0236686
23.190	182	176	0.0236686
23.200	169	175	0.0260146
23.210	180	174	0.0244141
23.220	184	173	0.0236686
23.230	179	173	0.0244141
23.240	162	172	0.0268745
23.250	166	172	0.0268745
23.260	174	171	0.0251953
23.270	161	171	0.0268745
23.280	165	171	0.0268745
23.290	157	170	0.0277778
23.300	170	170	0.0260146
23.310	165	170	0.0268745
23.320	163	170	0.0268745
23.330	159	170	0.0277778

23.340	171	170	0.0251953
23.350	164	170	0.0268745
23.360	163	170	0.0268745
23.370	168	171	0.0260146
23.380	171	171	0.0260146
23.390	163	172	0.0268745
23.400	167	172	0.0260146
23.410	171	173	0.0251953
23.420	162	174	0.0268745
23.430	180	175	0.0244141
23.440	176	178	0.0251953
23.450	171	181	0.0251953
23.460	172	187	0.0251953
23.470	188	196	0.0229568
23.480	211	210	0.0210040
23.490	218	229	0.0198373
23.500	264	254	0.0164366
23.510	330	277	0.0132118
23.520	287	267	0.0152416
23.530	213	230	0.0204082
23.540	213	205	0.0204082
23.550	199	193	0.0222767
23.560	181	188	0.0244141
23.570	180	185	0.0244141
23.580	193	184	0.0229568
23.590	188	184	0.0229568
23.600	193	185	0.0229568
23.610	181	186	0.0244141
23.620	183	188	0.0236686
23.630	197	191	0.0222767
23.640	205	194	0.0216263
23.650	211	197	0.0210040
23.660	200	202	0.0216263
23.670	220	208	0.0198373
23.680	230	216	0.0192901
23.690	246	225	0.0177778
23.700	238	238	0.0182615
23.710	253	256	0.0173130
23.720	288	281	0.0152416
23.730	304	319	0.0145159
23.740	368	377	0.0118147
23.750	450	468	0.0098030
23.760	533	608	0.0082645
23.770	713	806	0.0062000
23.780	949	1065	0.0046277
23.790	1307	1363	0.0033412
23.800	1604	1567	0.0027412
23.810	1397	1436	0.0031210
23.820	974	1054	0.0045043
23.830	663	738	0.0066098
23.840	529	558	0.0082645
23.850	443	467	0.0100000
23.860	437	428	0.0100000
23.870	425	425	0.0104123

23.880	468	447	0.0094260
23.890	505	483	0.0087344
23.900	541	506	0.0081162
23.910	549	496	0.0079719
23.920	525	474	0.0084168
23.930	506	431	0.0087344
23.940	362	355	0.0120758
23.950	324	292	0.0135208
23.960	285	254	0.0152416
23.970	250	232	0.0177778
23.980	225	218	0.0192901
23.990	217	208	0.0204082
24.000	212	201	0.0204082
24.010	210	196	0.0210040
24.020	194	192	0.0222767
24.030	186	189	0.0236686
24.040	198	186	0.0222767
24.050	183	184	0.0236686
24.060	197	183	0.0222767
24.070	198	181	0.0222767
24.080	178	180	0.0244141
24.090	178	179	0.0244141
24.100	188	178	0.0236686
24.110	179	178	0.0244141
24.120	171	177	0.0260146
24.130	181	177	0.0244141
24.140	170	177	0.0260146
24.150	176	176	0.0251953
24.160	176	176	0.0251953
24.170	166	176	0.0260146
24.180	176	177	0.0251953
24.190	190	177	0.0229568
24.200	191	177	0.0229568
24.210	177	178	0.0251953
24.220	172	178	0.0251953
24.230	181	179	0.0244141
24.240	192	180	0.0229568
24.250	183	182	0.0244141
24.260	185	184	0.0236686
24.270	190	186	0.0229568
24.280	185	189	0.0236686
24.290	208	193	0.0210040
24.300	194	198	0.0229568
24.310	212	204	0.0204082
24.320	212	214	0.0210040
24.330	217	229	0.0204082
24.340	242	251	0.0182615
24.350	262	288	0.0168663
24.360	322	348	0.0135208
24.370	414	440	0.0106281
24.380	525	567	0.0084168
24.390	701	732	0.0062988
24.400	951	894	0.0046277
24.410	1009	901	0.0043283

24.420	669	692	0.0066098
24.430	481	488	0.0090703
24.440	361	375	0.0120758
24.450	318	320	0.0138408
24.460	282	297	0.0156250
24.470	300	293	0.0145159
24.480	297	289	0.0148721
24.490	255	262	0.0173130
24.500	229	231	0.0192901
24.510	212	212	0.0210040
24.520	222	202	0.0198373
24.530	199	197	0.0222767
24.540	199	195	0.0222767
24.550	200	196	0.0216263
24.560	197	199	0.0222767
24.570	213	204	0.0204082
24.580	216	210	0.0204082
24.590	227	215	0.0192901
24.600	224	211	0.0198373
24.610	211	200	0.0210040
24.620	194	191	0.0229568
24.630	194	186	0.0229568
24.640	176	182	0.0251953
24.650	197	181	0.0222767
24.660	185	180	0.0236686
24.670	187	181	0.0236686
24.680	183	182	0.0236686
24.690	190	185	0.0229568
24.700	191	190	0.0229568
24.710	198	198	0.0222767
24.720	211	210	0.0210040
24.730	248	227	0.0177778
24.740	286	249	0.0152416
24.750	287	272	0.0152416
24.760	323	279	0.0135208
24.770	278	259	0.0156250
24.780	246	230	0.0177778
24.790	212	211	0.0210040
24.800	205	202	0.0216263
24.810	186	199	0.0236686
24.820	189	201	0.0229568
24.830	204	205	0.0216263
24.840	205	212	0.0216263
24.850	221	214	0.0198373
24.860	200	208	0.0216263
24.870	203	197	0.0216263
24.880	190	188	0.0229568
24.890	174	182	0.0251953
24.900	176	179	0.0251953
24.910	174	178	0.0251953
24.920	163	178	0.0268745
24.930	175	179	0.0251953
24.940	181	180	0.0244141
24.950	187	181	0.0236686

24.960	178	178	0.0244141
24.970	168	175	0.0260146
24.980	171	172	0.0260146
24.990	158	171	0.0277778
25.000	172	170	0.0251953
25.010	162	169	0.0268745
25.020	164	169	0.0268745
25.030	169	169	0.0260146
25.040	164	169	0.0268745
25.050	171	169	0.0260146
25.060	159	170	0.0277778
25.070	166	170	0.0260146
25.080	160	170	0.0277778
25.090	163	170	0.0268745
25.100	164	171	0.0268745
25.110	165	171	0.0268745
25.120	159	172	0.0277778
25.130	163	173	0.0268745
25.140	171	174	0.0251953
25.150	175	175	0.0251953
25.160	183	176	0.0236686
25.170	171	178	0.0251953
25.180	171	179	0.0251953
25.190	177	182	0.0244141
25.200	189	185	0.0229568
25.210	193	189	0.0229568
25.220	197	195	0.0222767
25.230	211	202	0.0204082
25.240	207	214	0.0210040
25.250	226	230	0.0192901
25.260	238	255	0.0182615
25.270	274	293	0.0160231
25.280	335	347	0.0129132
25.290	390	417	0.0113173
25.300	458	499	0.0096117
25.310	569	561	0.0076947
25.320	588	548	0.0074316
25.330	454	456	0.0096117
25.340	354	361	0.0123457
25.350	308	297	0.0141723
25.360	262	258	0.0168663
25.370	234	234	0.0187652
25.380	223	220	0.0198373
25.390	206	210	0.0210040
25.400	201	204	0.0216263
25.410	194	200	0.0222767
25.420	205	199	0.0210040
25.430	207	199	0.0210040
25.440	194	201	0.0222767
25.450	199	205	0.0216263
25.460	205	214	0.0216263
25.470	224	228	0.0192901
25.480	238	250	0.0182615
25.490	264	281	0.0164366

25.500	312	321	0.0138408
25.510	357	364	0.0123457
25.520	399	386	0.0108507
25.530	375	360	0.0115620
25.540	317	305	0.0138408
25.550	257	259	0.0168663
25.560	227	230	0.0192901
25.570	202	212	0.0216263
25.580	197	201	0.0222767
25.590	202	194	0.0216263
25.600	183	189	0.0236686
25.610	192	186	0.0229568
25.620	183	183	0.0236686
25.630	187	182	0.0229568
25.640	181	181	0.0244141
25.650	184	180	0.0236686
25.660	172	180	0.0251953
25.670	192	180	0.0229568
25.680	182	180	0.0236686
25.690	178	181	0.0244141
25.700	187	182	0.0229568
25.710	193	184	0.0222767
25.720	184	186	0.0236686
25.730	189	190	0.0229568
25.740	200	197	0.0216263
25.750	199	208	0.0222767
25.760	225	224	0.0192901
25.770	230	247	0.0187652
25.780	284	277	0.0152416
25.790	335	306	0.0129132
25.800	335	309	0.0129132
25.810	269	276	0.0160231
25.820	250	243	0.0173130
25.830	225	224	0.0192901
25.840	240	216	0.0182615
25.850	223	213	0.0198373
25.860	219	215	0.0198373
25.870	221	220	0.0198373
25.880	254	228	0.0173130
25.890	255	242	0.0168663
25.900	263	261	0.0164366
25.910	286	291	0.0152416
25.920	327	338	0.0132118
25.930	397	410	0.0110803
25.940	490	514	0.0089000
25.950	647	650	0.0067186
25.960	829	804	0.0052510
25.970	1006	911	0.0043283
25.980	951	867	0.0045654
25.990	682	688	0.0064000
26.000	493	513	0.0089000
26.010	399	397	0.0108507
26.020	346	327	0.0126247
26.030	297	283	0.0145159

26.040	266	255	0.0164366
26.050	241	235	0.0182615
26.060	220	222	0.0198373
26.070	211	212	0.0204082
26.080	208	205	0.0210040
26.090	201	199	0.0216263
26.100	201	195	0.0216263
26.110	201	192	0.0216263
26.120	193	189	0.0222767
26.130	194	187	0.0222767
26.140	192	185	0.0229568
26.150	190	184	0.0229568
26.160	183	183	0.0236686
26.170	192	183	0.0229568
26.180	188	182	0.0229568
26.190	193	183	0.0229568
26.200	193	183	0.0222767
26.210	183	184	0.0236686
26.220	187	185	0.0236686
26.230	184	187	0.0236686
26.240	189	191	0.0229568
26.250	194	197	0.0222767
26.260	185	207	0.0236686
26.270	235	224	0.0187652
26.280	238	253	0.0182615
26.290	279	295	0.0156250
26.300	356	350	0.0123457
26.310	442	400	0.0098030
26.320	385	380	0.0113173
26.330	296	302	0.0148721
26.340	250	247	0.0173130
26.350	240	221	0.0182615
26.360	209	207	0.0210040
26.370	213	201	0.0204082
26.380	203	197	0.0216263
26.390	207	196	0.0210040
26.400	203	195	0.0216263
26.410	204	196	0.0216263
26.420	218	198	0.0198373
26.430	215	201	0.0204082
26.440	219	205	0.0198373
26.450	222	210	0.0198373
26.460	231	217	0.0187652
26.470	236	227	0.0182615
26.480	257	240	0.0168663
26.490	277	259	0.0156250
26.500	297	285	0.0145159
26.510	317	325	0.0138408
26.520	370	388	0.0118147
26.530	472	485	0.0092456
26.540	589	630	0.0074316
26.550	787	826	0.0055692
26.560	1032	1055	0.0042166
26.570	1321	1230	0.0033029

26.580	1287	1182	0.0033802
26.590	923	920	0.0047562
26.600	664	666	0.0066098
26.610	519	508	0.0084168
26.620	428	420	0.0102030
26.630	421	376	0.0104123
26.640	382	358	0.0113173
26.650	384	354	0.0113173
26.660	398	346	0.0108507
26.670	369	319	0.0118147
26.680	326	283	0.0132118
26.690	279	253	0.0156250
26.700	257	232	0.0168663
26.710	233	218	0.0187652
26.720	217	209	0.0198373
26.730	218	202	0.0198373
26.740	210	197	0.0210040
26.750	209	193	0.0210040
26.760	204	190	0.0216263
26.770	193	187	0.0222767
26.780	194	185	0.0222767
26.790	178	184	0.0244141
26.800	194	183	0.0222767
26.810	178	181	0.0244141
26.820	200	181	0.0216263
26.830	180	180	0.0244141
26.840	187	179	0.0229568
26.850	187	179	0.0236686
26.860	190	179	0.0229568
26.870	179	178	0.0244141
26.880	187	178	0.0236686
26.890	190	179	0.0229568
26.900	196	179	0.0222767
26.910	179	179	0.0244141
26.920	193	180	0.0222767
26.930	179	180	0.0244141
26.940	190	181	0.0229568
26.950	195	182	0.0222767
26.960	188	183	0.0229568
26.970	181	185	0.0236686
26.980	199	186	0.0216263
26.990	190	189	0.0229568
27.000	194	191	0.0222767
27.010	212	195	0.0204082
27.020	210	199	0.0210040
27.030	211	205	0.0204082
27.040	234	213	0.0187652
27.050	234	224	0.0187652
27.060	248	241	0.0173130
27.070	262	266	0.0164366
27.080	314	305	0.0138408
27.090	380	363	0.0113173
27.100	436	441	0.0100000
27.110	546	530	0.0079719

27.120	623	589	0.0069444
27.130	577	570	0.0075614
27.140	521	539	0.0084168
27.150	557	580	0.0078315
27.160	700	704	0.0062000
27.170	968	904	0.0045043
27.180	1340	1133	0.0032283
27.190	1345	1174	0.0032283
27.200	888	893	0.0048902
27.210	604	620	0.0071818
27.220	494	482	0.0087344
27.230	472	429	0.0092456
27.240	445	427	0.0098030
27.250	489	466	0.0089000
27.260	542	542	0.0079719
27.270	641	647	0.0067186
27.280	786	753	0.0054870
27.290	881	788	0.0048902
27.300	731	693	0.0059172
27.310	555	541	0.0078315
27.320	459	419	0.0094260
27.330	377	342	0.0115620
27.340	313	293	0.0138408
27.350	281	262	0.0152416
27.360	258	241	0.0168663
27.370	238	227	0.0182615
27.380	236	217	0.0182615
27.390	216	210	0.0198373
27.400	231	205	0.0187652
27.410	225	203	0.0192901
27.420	216	203	0.0198373
27.430	234	203	0.0182615
27.440	211	202	0.0204082
27.450	201	197	0.0216263
27.460	202	191	0.0216263
27.470	195	185	0.0222767
27.480	184	182	0.0236686
27.490	177	179	0.0244141
27.500	179	177	0.0244141
27.510	169	176	0.0260146
27.520	177	174	0.0244141
27.530	174	173	0.0251953
27.540	168	173	0.0260146
27.550	173	172	0.0251953
27.560	176	171	0.0244141
27.570	174	171	0.0251953
27.580	172	170	0.0251953
27.590	169	170	0.0251953
27.600	170	170	0.0251953
27.610	162	170	0.0268745
27.620	164	169	0.0260146
27.630	161	169	0.0268745
27.640	164	169	0.0260146
27.650	165	169	0.0260146

27.660	176	169	0.0244141
27.670	171	169	0.0251953
27.680	162	169	0.0268745
27.690	165	170	0.0260146
27.700	168	170	0.0260146
27.710	169	170	0.0251953
27.720	177	171	0.0244141
27.730	168	171	0.0260146
27.740	177	172	0.0244141
27.750	176	173	0.0244141
27.760	171	175	0.0251953
27.770	181	177	0.0236686
27.780	183	181	0.0236686
27.790	185	186	0.0236686
27.800	194	193	0.0222767
27.810	220	204	0.0198373
27.820	228	221	0.0187652
27.830	246	247	0.0173130
27.840	301	281	0.0145159
27.850	358	321	0.0120758
27.860	431	349	0.0100000
27.870	398	340	0.0108507
27.880	335	299	0.0129132
27.890	280	261	0.0152416
27.900	236	238	0.0182615
27.910	234	230	0.0182615
27.920	230	233	0.0187652
27.930	243	249	0.0177778
27.940	273	277	0.0156250
27.950	311	318	0.0138408
27.960	395	365	0.0108507
27.970	422	387	0.0102030
27.980	355	350	0.0120758
27.990	288	287	0.0148721
28.000	229	242	0.0187652
28.010	214	215	0.0204082
28.020	194	199	0.0222767
28.030	184	189	0.0236686
28.040	177	182	0.0244141
28.050	189	177	0.0229568
28.060	180	174	0.0236686
28.070	174	172	0.0244141
28.080	168	170	0.0260146
28.090	165	168	0.0260146
28.100	170	167	0.0251953
28.110	166	166	0.0260146
28.120	162	165	0.0268745
28.130	155	165	0.0277778
28.140	165	164	0.0260146
28.150	168	164	0.0260146
28.160	155	163	0.0277778
28.170	159	163	0.0268745
28.180	155	163	0.0277778
28.190	163	162	0.0268745

28.200	151	162	0.0287274
28.210	152	162	0.0287274
28.220	156	162	0.0277778
28.230	153	161	0.0277778
28.240	157	161	0.0277778
28.250	152	161	0.0287274
28.260	158	161	0.0268745
28.270	156	161	0.0277778
28.280	150	161	0.0287274
28.290	165	161	0.0260146
28.300	147	161	0.0297265
28.310	168	161	0.0260146
28.320	145	161	0.0297265
28.330	155	161	0.0277778
28.340	142	161	0.0307787
28.350	156	161	0.0277778
28.360	157	161	0.0277778
28.370	154	162	0.0277778
28.380	148	162	0.0287274
28.390	155	163	0.0277778
28.400	159	164	0.0268745
28.410	147	167	0.0297265
28.420	155	170	0.0277778
28.430	170	176	0.0251953
28.440	172	182	0.0251953
28.450	174	186	0.0244141
28.460	173	181	0.0251953
28.470	161	173	0.0268745
28.480	147	168	0.0297265
28.490	155	165	0.0277778
28.500	162	163	0.0268745
28.510	149	162	0.0287274
28.520	152	162	0.0287274
28.530	152	161	0.0287274
28.540	154	161	0.0277778
28.550	154	161	0.0277778
28.560	159	161	0.0268745
28.570	150	160	0.0287274
28.580	151	160	0.0287274
28.590	149	160	0.0287274
28.600	154	160	0.0277778
28.610	149	160	0.0287274
28.620	144	160	0.0297265
28.630	149	160	0.0287274
28.640	134	160	0.0318878
28.650	158	161	0.0268745
28.660	157	161	0.0277778
28.670	152	161	0.0287274
28.680	163	161	0.0268745
28.690	144	162	0.0297265
28.700	161	163	0.0268745
28.710	149	163	0.0287274
28.720	154	165	0.0277778
28.730	157	166	0.0277778

28.740	151	169	0.0287274
28.750	156	172	0.0277778
28.760	158	176	0.0268745
28.770	167	179	0.0260146
28.780	173	180	0.0251953
28.790	184	180	0.0236686
28.800	163	180	0.0260146
28.810	169	184	0.0251953
28.820	185	193	0.0236686
28.830	212	209	0.0204082
28.840	233	232	0.0187652
28.850	274	260	0.0156250
28.860	307	277	0.0141723
28.870	268	256	0.0160231
28.880	212	221	0.0204082
28.890	173	197	0.0251953
28.900	189	185	0.0229568
28.910	185	178	0.0236686
28.920	167	175	0.0260146
28.930	167	173	0.0260146
28.940	174	172	0.0244141
28.950	168	172	0.0260146
28.960	164	173	0.0260146
28.970	180	174	0.0236686
28.980	176	175	0.0244141
28.990	183	178	0.0236686
29.000	179	181	0.0244141
29.010	165	186	0.0260146
29.020	186	192	0.0229568
29.030	195	202	0.0222767
29.040	207	216	0.0210040
29.050	226	238	0.0192901
29.060	256	272	0.0168663
29.070	294	322	0.0145159
29.080	354	388	0.0120758
29.090	437	455	0.0098030
29.100	484	488	0.0089000
29.110	414	447	0.0104123
29.120	335	370	0.0129132
29.130	272	309	0.0160231
29.140	250	276	0.0173130
29.150	239	263	0.0182615
29.160	245	262	0.0177778
29.170	252	267	0.0168663
29.180	276	266	0.0156250
29.190	244	250	0.0177778
29.200	221	227	0.0192901
29.210	205	209	0.0210040
29.220	193	196	0.0222767
29.230	180	188	0.0236686
29.240	175	183	0.0244141
29.250	172	181	0.0251953
29.260	171	180	0.0251953
29.270	168	182	0.0251953

29.280	180	184	0.0236686
29.290	178	185	0.0244141
29.300	174	183	0.0244141
29.310	174	181	0.0244141
29.320	169	183	0.0251953
29.330	187	188	0.0229568
29.340	188	195	0.0229568
29.350	204	203	0.0210040
29.360	199	207	0.0216263
29.370	203	202	0.0210040
29.380	181	191	0.0236686
29.390	176	182	0.0244141
29.400	164	175	0.0260146
29.410	169	171	0.0251953
29.420	167	168	0.0260146
29.430	161	166	0.0268745
29.440	163	165	0.0260146
29.450	160	164	0.0268745
29.460	164	164	0.0260146
29.470	153	164	0.0277778
29.480	149	163	0.0287274
29.490	145	163	0.0297265
29.500	162	164	0.0268745
29.510	159	164	0.0268745
29.520	156	164	0.0277778
29.530	160	165	0.0268745
29.540	162	166	0.0268745
29.550	170	167	0.0251953
29.560	158	168	0.0268745
29.570	172	170	0.0251953
29.580	178	173	0.0244141
29.590	168	176	0.0251953
29.600	180	178	0.0236686
29.610	183	180	0.0236686
29.620	176	180	0.0244141
29.630	177	181	0.0244141
29.640	180	184	0.0236686
29.650	191	188	0.0222767
29.660	189	193	0.0229568
29.670	183	202	0.0236686
29.680	222	213	0.0192901
29.690	216	230	0.0198373
29.700	253	254	0.0168663
29.710	270	291	0.0160231
29.720	345	348	0.0123457
29.730	404	428	0.0106281
29.740	515	529	0.0082645
29.750	655	627	0.0065036
29.760	720	664	0.0059172
29.770	604	596	0.0070616
29.780	463	475	0.0092456
29.790	362	375	0.0118147
29.800	309	308	0.0138408
29.810	258	266	0.0164366

29.820	232	240	0.0182615
29.830	225	222	0.0187652
29.840	199	211	0.0216263
29.850	206	203	0.0204082
29.860	197	198	0.0216263
29.870	213	195	0.0198373
29.880	184	194	0.0229568
29.890	191	195	0.0222767
29.900	192	198	0.0222767
29.910	189	205	0.0229568
29.920	203	216	0.0210040
29.930	218	233	0.0198373
29.940	227	259	0.0187652
29.950	268	296	0.0160231
29.960	307	340	0.0138408
29.970	342	376	0.0123457
29.980	337	378	0.0126247
29.990	300	340	0.0141723
30.000	251	293	0.0287274
30.010	228	259	0.0307787
30.020	219	240	0.0330579
30.030	213	235	0.0330579
30.040	213	244	0.0330579
30.050	230	269	0.0307787
30.060	277	312	0.0260146
30.070	354	369	0.0198373
30.080	427	410	0.0168663
30.090	347	374	0.0204082
30.100	269	294	0.0268745
30.110	215	239	0.0330579
30.120	204	209	0.0342936
30.130	201	193	0.0355999
30.140	175	183	0.0400000
30.150	177	176	0.0400000
30.160	170	172	0.0416493
30.170	174	169	0.0416493
30.180	169	166	0.0416493
30.190	170	165	0.0416493
30.200	170	163	0.0416493
30.210	155	162	0.0452694
30.220	162	161	0.0434028
30.230	159	160	0.0452694
30.240	158	160	0.0452694
30.250	165	159	0.0434028
30.260	155	159	0.0452694
30.270	151	159	0.0472590
30.280	157	159	0.0452694
30.290	155	159	0.0452694
30.300	151	159	0.0472590
30.310	160	159	0.0434028
30.320	164	160	0.0434028
30.330	154	161	0.0452694
30.340	160	162	0.0434028
30.350	159	164	0.0452694

30.360	167	168	0.0416493
30.370	184	173	0.0384468
30.380	195	177	0.0369822
30.390	197	180	0.0355999
30.400	198	178	0.0355999
30.410	186	175	0.0384468
30.420	177	174	0.0400000
30.430	175	176	0.0400000
30.440	179	182	0.0400000
30.450	184	192	0.0384468
30.460	206	205	0.0342936
30.470	213	217	0.0330579
30.480	201	215	0.0355999
30.490	200	208	0.0355999
30.500	190	209	0.0369822
30.510	208	220	0.0342936
30.520	218	238	0.0330579
30.530	254	260	0.0277778
30.540	284	272	0.0251953
30.550	273	263	0.0260146
30.560	248	238	0.0287274
30.570	214	214	0.0330579
30.580	198	197	0.0355999
30.590	187	187	0.0384468
30.600	180	181	0.0400000
30.610	181	177	0.0384468
30.620	184	175	0.0384468
30.630	180	175	0.0400000
30.640	179	175	0.0400000
30.650	184	177	0.0384468
30.660	180	179	0.0400000
30.670	184	183	0.0384468
30.680	191	189	0.0369822
30.690	193	198	0.0369822
30.700	203	210	0.0342936
30.710	211	227	0.0330579
30.720	229	255	0.0307787
30.730	267	299	0.0268745
30.740	321	368	0.0222767
30.750	445	469	0.0160231
30.760	586	595	0.0120758
30.770	749	705	0.0094260
30.780	724	707	0.0098030
30.790	535	579	0.0132118
30.800	406	435	0.0173130
30.810	310	337	0.0229568
30.820	272	277	0.0260146
30.830	233	240	0.0307787
30.840	226	217	0.0307787
30.850	205	202	0.0342936
30.860	181	191	0.0384468
30.870	184	183	0.0384468
30.880	188	177	0.0369822
30.890	173	173	0.0416493

30.900	177	169	0.0400000
30.910	170	167	0.0416493
30.920	171	165	0.0416493
30.930	163	163	0.0434028
30.940	159	162	0.0452694
30.950	164	161	0.0434028
30.960	162	160	0.0434028
30.970	161	160	0.0434028
30.980	160	160	0.0434028
30.990	159	160	0.0452694
31.000	161	161	0.0434028
31.010	174	163	0.0400000
31.020	162	166	0.0434028
31.030	169	171	0.0416493
31.040	173	177	0.0400000
31.050	175	184	0.0400000
31.060	195	188	0.0355999
31.070	187	185	0.0384468
31.080	172	178	0.0384468
31.090	170	172	0.0400000
31.100	178	168	0.0400000
31.110	162	167	0.0452694
31.120	165	167	0.0434028
31.130	179	168	0.0400000
31.140	165	171	0.0434028
31.150	178	176	0.0400000
31.160	182	185	0.0400000
31.170	196	199	0.0369822
31.180	223	224	0.0318878
31.190	259	261	0.0277778
31.200	343	312	0.0210040
31.210	424	363	0.0168663
31.220	422	371	0.0168663
31.230	326	318	0.0222767
31.240	259	257	0.0277778
31.250	229	218	0.0307787
31.260	197	196	0.0369822
31.270	193	183	0.0369822
31.280	180	176	0.0400000
31.290	172	171	0.0416493
31.300	177	168	0.0400000
31.310	172	167	0.0416493
31.320	170	166	0.0416493
31.330	173	166	0.0416493
31.340	167	167	0.0434028
31.350	180	168	0.0400000
31.360	177	171	0.0400000
31.370	182	175	0.0400000
31.380	182	181	0.0400000
31.390	199	190	0.0355999
31.400	202	204	0.0355999
31.410	229	225	0.0307787
31.420	249	252	0.0287274
31.430	285	281	0.0251953

31.440	305	297	0.0236686
31.450	285	289	0.0251953
31.460	266	269	0.0268745
31.470	256	258	0.0277778
31.480	253	261	0.0287274
31.490	276	279	0.0260146
31.500	332	303	0.0216263
31.510	347	323	0.0204082
31.520	343	319	0.0210040
31.530	309	293	0.0229568
31.540	275	266	0.0260146
31.550	255	251	0.0277778
31.560	249	252	0.0287274
31.570	256	270	0.0277778
31.580	307	313	0.0236686
31.590	387	391	0.0187652
31.600	545	502	0.0132118
31.610	774	613	0.0092456
31.620	669	612	0.0106281
31.630	455	467	0.0156250
31.640	352	338	0.0204082
31.650	284	266	0.0251953
31.660	240	227	0.0297265
31.670	223	204	0.0318878
31.680	192	191	0.0369822
31.690	200	182	0.0355999
31.700	182	175	0.0400000
31.710	192	171	0.0369822
31.720	183	168	0.0400000
31.730	171	166	0.0416493
31.740	178	165	0.0400000
31.750	171	164	0.0416493
31.760	177	164	0.0400000
31.770	177	164	0.0400000
31.780	177	165	0.0400000
31.790	172	167	0.0416493
31.800	181	169	0.0400000
31.810	183	172	0.0384468
31.820	188	177	0.0384468
31.830	184	184	0.0384468
31.840	189	193	0.0384468
31.850	213	208	0.0342936
31.860	226	230	0.0318878
31.870	254	266	0.0277778
31.880	310	320	0.0229568
31.890	389	393	0.0182615
31.900	489	469	0.0148721
31.910	534	506	0.0135208
31.920	453	466	0.0160231
31.930	374	393	0.0192901
31.940	333	346	0.0216263
31.950	331	332	0.0216263
31.960	357	336	0.0204082
31.970	332	326	0.0216263

31.980	277	287	0.0260146
31.990	239	243	0.0297265
32.000	214	215	0.0330579
32.010	191	199	0.0384468
32.020	186	190	0.0384468
32.030	194	187	0.0369822
32.040	207	186	0.0342936
32.050	194	187	0.0369822
32.060	194	185	0.0369822
32.070	192	181	0.0369822
32.080	183	177	0.0400000
32.090	180	176	0.0400000
32.100	174	176	0.0416493
32.110	178	180	0.0400000
32.120	178	186	0.0400000
32.130	175	197	0.0416493
32.140	196	215	0.0369822
32.150	226	243	0.0318878
32.160	265	283	0.0268745
32.170	316	331	0.0229568
32.180	363	371	0.0198373
32.190	354	372	0.0204082
32.200	298	328	0.0244141
32.210	262	273	0.0277778
32.220	228	232	0.0318878
32.230	203	204	0.0355999
32.240	185	187	0.0384468
32.250	165	175	0.0434028
32.260	165	168	0.0434028
32.270	160	162	0.0452694
32.280	155	158	0.0472590
32.290	157	156	0.0452694
32.300	160	154	0.0452694
32.310	155	153	0.0472590
32.320	154	153	0.0472590
32.330	159	154	0.0452694
32.340	155	157	0.0472590
32.350	147	161	0.0493827
32.360	156	161	0.0452694
32.370	150	156	0.0472590
32.380	151	150	0.0472590
32.390	149	147	0.0493827
32.400	141	145	0.0516529
32.410	139	143	0.0516529
32.420	146	142	0.0493827
32.430	148	142	0.0493827
32.440	143	141	0.0493827
32.450	137	141	0.0516529
32.460	140	140	0.0516529
32.470	140	140	0.0516529
32.480	150	140	0.0472590
32.490	137	139	0.0516529
32.500	137	139	0.0516529
32.510	145	139	0.0493827

32.520	139	139	0.0516529
32.530	141	139	0.0516529
32.540	135	138	0.0516529
32.550	144	138	0.0493827
32.560	135	138	0.0540833
32.570	129	138	0.0540833
32.580	132	138	0.0540833
32.590	141	138	0.0516529
32.600	139	137	0.0516529
32.610	130	137	0.0540833
32.620	140	137	0.0516529
32.630	139	137	0.0516529
32.640	134	137	0.0540833
32.650	134	137	0.0540833
32.660	137	136	0.0516529
32.670	132	136	0.0540833
32.680	136	136	0.0516529
32.690	129	136	0.0540833
32.700	132	136	0.0540833
32.710	134	136	0.0540833
32.720	132	136	0.0540833
32.730	134	136	0.0540833
32.740	134	136	0.0540833
32.750	135	136	0.0516529
32.760	133	136	0.0540833
32.770	132	135	0.0540833
32.780	132	135	0.0540833
32.790	136	135	0.0516529
32.800	119	135	0.0594884
32.810	130	135	0.0540833
32.820	126	135	0.0566893
32.830	137	135	0.0516529
32.840	127	135	0.0566893
32.850	124	135	0.0566893
32.860	131	135	0.0540833
32.870	134	135	0.0540833
32.880	136	135	0.0516529
32.890	135	135	0.0516529
32.900	134	135	0.0516529
32.910	132	135	0.0540833
32.920	136	135	0.0516529
32.930	137	135	0.0516529
32.940	138	135	0.0516529
32.950	136	135	0.0516529
32.960	134	135	0.0540833
32.970	138	135	0.0516529
32.980	132	135	0.0540833
32.990	131	135	0.0540833
33.000	132	135	0.0540833
33.010	129	135	0.0540833
33.020	133	135	0.0540833
33.030	134	135	0.0540833
33.040	132	135	0.0540833
33.050	135	135	0.0516529

33.060	134	135	0.0540833
33.070	135	135	0.0516529
33.080	136	135	0.0516529
33.090	132	135	0.0540833
33.100	134	135	0.0516529
33.110	136	135	0.0516529
33.120	139	135	0.0516529
33.130	136	136	0.0516529
33.140	135	136	0.0516529
33.150	139	136	0.0516529
33.160	137	136	0.0516529
33.170	139	136	0.0516529
33.180	143	137	0.0493827
33.190	138	137	0.0516529
33.200	143	138	0.0493827
33.210	143	138	0.0493827
33.220	140	139	0.0516529
33.230	140	140	0.0516529
33.240	135	141	0.0516529
33.250	144	142	0.0493827
33.260	154	144	0.0452694
33.270	146	146	0.0493827
33.280	151	149	0.0472590
33.290	152	154	0.0472590
33.300	152	160	0.0472590
33.310	165	169	0.0434028
33.320	176	181	0.0400000
33.330	190	195	0.0369822
33.340	204	209	0.0342936
33.350	220	216	0.0318878
33.360	212	213	0.0330579
33.370	205	210	0.0342936
33.380	207	215	0.0342936
33.390	210	232	0.0330579
33.400	256	266	0.0277778
33.410	323	314	0.0216263
33.420	358	361	0.0198373
33.430	382	378	0.0187652
33.440	349	360	0.0204082
33.450	282	313	0.0251953
33.460	245	253	0.0287274
33.470	206	211	0.0342936
33.480	194	187	0.0369822
33.490	184	174	0.0384468
33.500	171	166	0.0416493
33.510	171	161	0.0416493
33.520	163	159	0.0434028
33.530	166	158	0.0416493
33.540	160	158	0.0434028
33.550	162	159	0.0434028
33.560	161	162	0.0434028
33.570	172	166	0.0416493
33.580	176	173	0.0400000
33.590	182	184	0.0384468

33.600	204	200	0.0342936
33.610	224	222	0.0318878
33.620	249	247	0.0287274
33.630	262	267	0.0268745
33.640	261	270	0.0268745
33.650	241	260	0.0287274
33.660	245	254	0.0287274
33.670	240	262	0.0297265
33.680	263	284	0.0268745
33.690	310	314	0.0229568
33.700	320	337	0.0222767
33.710	334	336	0.0210040
33.720	302	310	0.0236686
33.730	264	276	0.0268745
33.740	227	246	0.0307787
33.750	224	229	0.0318878
33.760	218	226	0.0318878
33.770	226	239	0.0307787
33.780	256	268	0.0277778
33.790	289	306	0.0244141
33.800	308	321	0.0229568
33.810	251	286	0.0277778
33.820	227	241	0.0307787
33.830	210	218	0.0330579
33.840	209	212	0.0330579
33.850	208	213	0.0342936
33.860	212	214	0.0330579
33.870	212	207	0.0330579
33.880	194	193	0.0369822
33.890	185	179	0.0384468
33.900	178	169	0.0400000
33.910	168	163	0.0416493
33.920	166	159	0.0416493
33.930	165	157	0.0416493
33.940	162	156	0.0434028
33.950	169	156	0.0416493
33.960	168	158	0.0416493
33.970	168	160	0.0416493
33.980	168	164	0.0416493
33.990	170	169	0.0416493
34.000	182	178	0.0384468
34.010	184	190	0.0384468
34.020	202	208	0.0342936
34.030	216	237	0.0330579
34.040	267	282	0.0260146
34.050	317	347	0.0222767
34.060	428	429	0.0164366
34.070	500	499	0.0141723
34.080	483	504	0.0145159
34.090	368	435	0.0192901
34.100	317	352	0.0222767
34.110	272	294	0.0260146
34.120	243	262	0.0287274
34.130	223	241	0.0318878

34.140	212	219	0.0330579
34.150	195	199	0.0355999
34.160	191	186	0.0369822
34.170	180	178	0.0384468
34.180	180	176	0.0384468
34.190	180	179	0.0384468
34.200	194	183	0.0355999
34.210	189	186	0.0369822
34.220	187	182	0.0369822
34.230	173	173	0.0400000
34.240	170	163	0.0416493
34.250	165	155	0.0416493
34.260	159	150	0.0434028
34.270	162	146	0.0434028
34.280	143	144	0.0493827
34.290	147	142	0.0472590
34.300	148	141	0.0472590
34.310	149	141	0.0472590
34.320	147	140	0.0472590
34.330	150	140	0.0472590
34.340	145	141	0.0493827
34.350	147	142	0.0472590
34.360	147	143	0.0472590
34.370	156	145	0.0452694
34.380	153	147	0.0452694
34.390	152	151	0.0452694
34.400	156	156	0.0452694
34.410	160	164	0.0434028
34.420	159	176	0.0434028
34.430	175	194	0.0400000
34.440	200	224	0.0355999
34.450	237	272	0.0297265
34.460	312	338	0.0222767
34.470	383	408	0.0182615
34.480	410	436	0.0173130
34.490	340	387	0.0204082
34.500	258	306	0.0268745
34.510	231	243	0.0307787
34.520	191	205	0.0369822
34.530	173	182	0.0400000
34.540	173	167	0.0400000
34.550	159	158	0.0434028
34.560	149	151	0.0472590
34.570	144	147	0.0493827
34.580	147	143	0.0472590
34.590	143	141	0.0493827
34.600	142	139	0.0493827
34.610	152	138	0.0452694
34.620	146	137	0.0472590
34.630	143	136	0.0493827
34.640	145	136	0.0493827
34.650	153	136	0.0452694
34.660	153	137	0.0452694
34.670	148	138	0.0472590

34.680	151	140	0.0472590
34.690	149	142	0.0472590
34.700	150	146	0.0472590
34.710	152	151	0.0452694
34.720	160	159	0.0434028
34.730	185	171	0.0384468
34.740	197	187	0.0355999
34.750	211	205	0.0330579
34.760	244	222	0.0287274
34.770	236	231	0.0297265
34.780	231	227	0.0307787
34.790	206	219	0.0342936
34.800	204	223	0.0342936
34.810	234	246	0.0297265
34.820	292	285	0.0236686
34.830	311	313	0.0222767
34.840	288	288	0.0244141
34.850	226	236	0.0307787
34.860	192	195	0.0369822
34.870	181	169	0.0384468
34.880	159	154	0.0434028
34.890	156	146	0.0452694
34.900	153	140	0.0452694
34.910	140	136	0.0493827
34.920	142	134	0.0493827
34.930	137	132	0.0516529
34.940	143	130	0.0493827
34.950	137	129	0.0516529
34.960	141	128	0.0493827
34.970	139	127	0.0493827
34.980	132	127	0.0516529
34.990	133	126	0.0516529
35.000	132	126	0.0516529
35.010	129	125	0.0540833
35.020	134	125	0.0516529
35.030	130	125	0.0540833
35.040	129	125	0.0540833
35.050	138	124	0.0493827
35.060	133	124	0.0516529
35.070	121	124	0.0566893
35.080	130	124	0.0540833
35.090	130	124	0.0540833
35.100	129	124	0.0540833
35.110	122	124	0.0566893
35.120	130	123	0.0540833
35.130	133	123	0.0516529
35.140	130	124	0.0540833
35.150	132	124	0.0516529
35.160	127	124	0.0540833
35.170	131	124	0.0540833
35.180	134	124	0.0516529
35.190	132	124	0.0516529
35.200	133	124	0.0516529
35.210	126	124	0.0540833

35.220	132	125	0.0516529
35.230	129	125	0.0540833
35.240	136	126	0.0516529
35.250	145	127	0.0472590
35.260	133	127	0.0516529
35.270	124	126	0.0566893
35.280	131	126	0.0540833
35.290	131	126	0.0540833
35.300	133	127	0.0516529
35.310	130	127	0.0540833
35.320	130	129	0.0540833
35.330	133	130	0.0516529
35.340	133	133	0.0516529
35.350	137	136	0.0516529
35.360	141	139	0.0493827
35.370	146	140	0.0472590
35.380	140	140	0.0493827
35.390	145	138	0.0472590
35.400	140	137	0.0493827
35.410	137	137	0.0516529
35.420	134	138	0.0516529
35.430	150	141	0.0472590
35.440	148	145	0.0472590
35.450	156	152	0.0452694
35.460	153	162	0.0452694
35.470	178	178	0.0384468
35.480	198	203	0.0355999
35.490	240	237	0.0287274
35.500	282	270	0.0244141
35.510	292	279	0.0236686
35.520	233	253	0.0297265
35.530	210	216	0.0330579
35.540	194	189	0.0355999
35.550	166	173	0.0416493
35.560	165	164	0.0416493
35.570	165	160	0.0416493
35.580	157	158	0.0434028
35.590	165	159	0.0416493
35.600	159	162	0.0434028
35.610	167	167	0.0416493
35.620	187	175	0.0369822
35.630	188	186	0.0369822
35.640	194	202	0.0355999
35.650	215	226	0.0318878
35.660	236	263	0.0297265
35.670	293	317	0.0236686
35.680	375	394	0.0187652
35.690	466	488	0.0148721
35.700	605	569	0.0115620
35.710	600	585	0.0115620
35.720	508	518	0.0135208
35.730	399	418	0.0173130
35.740	312	335	0.0222767
35.750	263	279	0.0260146

35.760	227	244	0.0307787
35.770	225	224	0.0307787
35.780	210	214	0.0330579
35.790	197	213	0.0355999
35.800	213	223	0.0330579
35.810	226	247	0.0307787
35.820	280	294	0.0244141
35.830	369	373	0.0187652
35.840	518	477	0.0132118
35.850	601	555	0.0115620
35.860	514	532	0.0135208
35.870	391	433	0.0177778
35.880	305	328	0.0229568
35.890	245	253	0.0277778
35.900	214	210	0.0318878
35.910	204	184	0.0342936
35.920	184	167	0.0369822
35.930	170	157	0.0400000
35.940	163	149	0.0416493
35.950	157	144	0.0434028
35.960	143	139	0.0493827
35.970	153	136	0.0452694
35.980	153	134	0.0452694
35.990	139	132	0.0493827
36.000	137	131	0.0493827
36.010	138	129	0.0493827
36.020	136	128	0.0516529
36.030	140	128	0.0493827
36.040	133	127	0.0516529
36.050	135	127	0.0516529
36.060	137	127	0.0516529
36.070	138	128	0.0493827
36.080	137	129	0.0493827
36.090	142	131	0.0493827
36.100	140	134	0.0493827
36.110	148	138	0.0472590
36.120	148	143	0.0472590
36.130	152	145	0.0452694
36.140	151	144	0.0452694
36.150	152	143	0.0452694
36.160	150	146	0.0452694
36.170	157	152	0.0434028
36.180	174	158	0.0400000
36.190	161	155	0.0434028
36.200	146	145	0.0472590
36.210	135	135	0.0516529
36.220	130	130	0.0540833
36.230	126	127	0.0540833
36.240	123	125	0.0566893
36.250	135	124	0.0516529
36.260	127	123	0.0540833
36.270	127	123	0.0540833
36.280	122	123	0.0566893
36.290	126	123	0.0540833

36.300	133	123	0.0516529
36.310	130	124	0.0516529
36.320	122	124	0.0566893
36.330	125	125	0.0540833
36.340	126	127	0.0540833
36.350	128	129	0.0540833
36.360	130	132	0.0516529
36.370	140	136	0.0493827
36.380	133	142	0.0516529
36.390	142	150	0.0472590
36.400	165	162	0.0416493
36.410	167	180	0.0416493
36.420	201	202	0.0342936
36.430	226	224	0.0307787
36.440	234	234	0.0297265
36.450	212	225	0.0318878
36.460	183	202	0.0369822
36.470	173	179	0.0400000
36.480	164	163	0.0416493
36.490	150	153	0.0452694
36.500	154	148	0.0452694
36.510	155	146	0.0452694
36.520	151	147	0.0452694
36.530	147	147	0.0472590
36.540	156	142	0.0434028
36.550	144	136	0.0472590
36.560	135	132	0.0516529
36.570	135	129	0.0516529
36.580	128	128	0.0540833
36.590	136	128	0.0516529
36.600	131	128	0.0516529
36.610	131	129	0.0516529
36.620	133	132	0.0516529
36.630	145	135	0.0472590
36.640	141	140	0.0493827
36.650	143	148	0.0472590
36.660	156	159	0.0434028
36.670	172	176	0.0400000
36.680	186	201	0.0369822
36.690	226	229	0.0307787
36.700	248	251	0.0277778
36.710	253	252	0.0268745
36.720	216	229	0.0318878
36.730	188	198	0.0369822
36.740	162	174	0.0416493
36.750	150	157	0.0452694
36.760	146	145	0.0472590
36.770	140	138	0.0493827
36.780	129	133	0.0540833
36.790	134	129	0.0516529
36.800	134	127	0.0516529
36.810	129	125	0.0540833
36.820	118	124	0.0594884
36.830	125	124	0.0540833

36.840	127	124	0.0540833
36.850	132	125	0.0516529
36.860	129	126	0.0540833
36.870	132	129	0.0516529
36.880	139	134	0.0493827
36.890	144	140	0.0472590
36.900	152	148	0.0452694
36.910	165	155	0.0416493
36.920	174	157	0.0400000
36.930	154	152	0.0452694
36.940	143	143	0.0472590
36.950	130	134	0.0516529
36.960	116	128	0.0594884
36.970	123	124	0.0566893
36.980	123	121	0.0566893
36.990	114	119	0.0594884
37.000	119	118	0.0566893
37.010	113	117	0.0594884
37.020	113	116	0.0594884
37.030	118	115	0.0594884
37.040	118	115	0.0594884
37.050	117	115	0.0594884
37.060	112	114	0.0625000
37.070	120	114	0.0566893
37.080	117	114	0.0594884
37.090	120	115	0.0566893
37.100	110	115	0.0625000
37.110	108	116	0.0625000
37.120	122	117	0.0566893
37.130	118	120	0.0566893
37.140	137	124	0.0493827
37.150	136	130	0.0493827
37.160	146	137	0.0472590
37.170	143	141	0.0472590
37.180	131	136	0.0516529
37.190	129	128	0.0540833
37.200	116	122	0.0594884
37.210	121	118	0.0566893
37.220	117	116	0.0594884
37.230	121	114	0.0566893
37.240	113	114	0.0594884
37.250	116	113	0.0594884
37.260	117	113	0.0594884
37.270	115	112	0.0594884
37.280	113	112	0.0594884
37.290	109	112	0.0625000
37.300	111	112	0.0625000
37.310	115	112	0.0594884
37.320	112	112	0.0625000
37.330	111	112	0.0625000
37.340	115	112	0.0594884
37.350	112	112	0.0594884
37.360	109	113	0.0625000
37.370	118	113	0.0566893

37.380	108	113	0.0625000
37.390	114	114	0.0594884
37.400	115	115	0.0594884
37.410	113	116	0.0594884
37.420	115	118	0.0594884
37.430	113	121	0.0594884
37.440	123	125	0.0566893
37.450	137	132	0.0493827
37.460	144	142	0.0472590
37.470	156	156	0.0434028
37.480	184	172	0.0369822
37.490	199	181	0.0342936
37.500	167	173	0.0400000
37.510	147	156	0.0472590
37.520	138	141	0.0493827
37.530	122	131	0.0566893
37.540	115	125	0.0594884
37.550	126	121	0.0540833
37.560	114	118	0.0594884
37.570	123	116	0.0540833
37.580	116	115	0.0594884
37.590	115	114	0.0594884
37.600	112	113	0.0594884
37.610	113	113	0.0594884
37.620	110	113	0.0625000
37.630	117	112	0.0594884
37.640	112	112	0.0594884
37.650	117	112	0.0594884
37.660	116	112	0.0594884
37.670	108	113	0.0625000
37.680	114	113	0.0594884
37.690	115	114	0.0594884
37.700	124	115	0.0540833
37.710	122	117	0.0566893
37.720	119	119	0.0566893
37.730	125	122	0.0540833
37.740	127	125	0.0540833
37.750	120	127	0.0566893
37.760	126	128	0.0540833
37.770	134	128	0.0516529
37.780	125	130	0.0540833
37.790	133	135	0.0516529
37.800	140	145	0.0493827
37.810	168	157	0.0400000
37.820	165	163	0.0416493
37.830	150	158	0.0452694
37.840	134	146	0.0516529
37.850	118	134	0.0566893
37.860	129	126	0.0516529
37.870	121	121	0.0566893
37.880	121	119	0.0566893
37.890	115	117	0.0594884
37.900	122	116	0.0566893
37.910	116	115	0.0594884

37.920	113	115	0.0594884
37.930	115	115	0.0594884
37.940	119	115	0.0566893
37.950	119	116	0.0566893
37.960	111	116	0.0625000
37.970	124	117	0.0540833
37.980	119	118	0.0566893
37.990	122	119	0.0566893
38.000	123	121	0.0540833
38.010	126	124	0.0540833
38.020	133	128	0.0516529
38.030	125	133	0.0540833
38.040	137	141	0.0493827
38.050	148	152	0.0452694
38.060	163	167	0.0416493
38.070	185	184	0.0369822
38.080	194	199	0.0355999
38.090	194	203	0.0355999
38.100	181	202	0.0369822
38.110	182	205	0.0369822
38.120	208	215	0.0330579
38.130	210	222	0.0318878
38.140	199	217	0.0342936
38.150	180	202	0.0369822
38.160	177	191	0.0384468
38.170	176	190	0.0384468
38.180	191	199	0.0355999
38.190	212	215	0.0318878
38.200	239	230	0.0287274
38.210	232	234	0.0287274
38.220	224	221	0.0297265
38.230	194	200	0.0342936
38.240	169	181	0.0400000
38.250	159	169	0.0434028
38.260	165	163	0.0416493
38.270	164	163	0.0416493
38.280	167	169	0.0400000
38.290	179	180	0.0369822
38.300	210	197	0.0318878
38.310	229	214	0.0297265
38.320	238	221	0.0287274
38.330	228	211	0.0297265
38.340	186	191	0.0369822
38.350	164	172	0.0416493
38.360	159	159	0.0416493
38.370	157	150	0.0434028
38.380	148	145	0.0452694
38.390	139	141	0.0493827
38.400	135	138	0.0493827
38.410	135	137	0.0493827
38.420	134	138	0.0493827
38.430	143	143	0.0472590
38.440	143	152	0.0472590
38.450	166	167	0.0400000

38.460	187	183	0.0355999
38.470	187	186	0.0355999
38.480	165	172	0.0400000
38.490	144	153	0.0472590
38.500	132	139	0.0516529
38.510	125	131	0.0540833
38.520	126	126	0.0540833
38.530	130	123	0.0516529
38.540	127	121	0.0540833
38.550	128	120	0.0516529
38.560	129	120	0.0516529
38.570	124	120	0.0540833
38.580	128	120	0.0516529
38.590	130	121	0.0516529
38.600	134	122	0.0493827
38.610	125	124	0.0540833
38.620	134	126	0.0493827
38.630	129	129	0.0516529
38.640	142	134	0.0472590
38.650	140	141	0.0472590
38.660	163	150	0.0416493
38.670	166	163	0.0400000
38.680	190	178	0.0355999
38.690	204	193	0.0330579
38.700	208	202	0.0318878
38.710	213	203	0.0318878
38.720	208	203	0.0318878
38.730	204	213	0.0330579
38.740	231	238	0.0287274
38.750	276	286	0.0244141
38.760	398	353	0.0168663
38.770	449	409	0.0148721
38.780	422	409	0.0160231
38.790	344	360	0.0192901
38.800	281	303	0.0236686
38.810	263	266	0.0251953
38.820	261	254	0.0260146
38.830	255	252	0.0260146
38.840	262	247	0.0260146
38.850	232	229	0.0287274
38.860	203	203	0.0330579
38.870	189	179	0.0355999
38.880	163	161	0.0416493
38.890	147	148	0.0452694
38.900	146	139	0.0452694
38.910	139	133	0.0493827
38.920	131	128	0.0516529
38.930	125	125	0.0540833
38.940	131	122	0.0516529
38.950	121	120	0.0566893
38.960	119	118	0.0566893
38.970	119	117	0.0566893
38.980	119	117	0.0566893
38.990	121	117	0.0566893

39.000	122	117	0.0540833
39.010	119	118	0.0566893
39.020	127	119	0.0540833
39.030	122	120	0.0540833
39.040	120	120	0.0566893
39.050	122	121	0.0540833
39.060	123	124	0.0540833
39.070	132	129	0.0516529
39.080	132	132	0.0516529
39.090	124	129	0.0540833
39.100	111	123	0.0594884
39.110	118	118	0.0566893
39.120	116	115	0.0594884
39.130	116	113	0.0594884
39.140	119	112	0.0566893
39.150	116	112	0.0594884
39.160	108	111	0.0625000
39.170	111	111	0.0594884
39.180	110	111	0.0625000
39.190	106	110	0.0625000
39.200	111	110	0.0594884
39.210	108	110	0.0625000
39.220	112	111	0.0594884
39.230	111	111	0.0594884
39.240	111	111	0.0594884
39.250	113	112	0.0594884
39.260	112	113	0.0594884
39.270	108	114	0.0625000
39.280	115	115	0.0594884
39.290	108	117	0.0625000
39.300	119	120	0.0566893
39.310	122	123	0.0540833
39.320	126	128	0.0540833
39.330	126	136	0.0540833
39.340	136	147	0.0493827
39.350	157	164	0.0434028
39.360	182	189	0.0369822
39.370	222	222	0.0297265
39.380	278	255	0.0236686
39.390	290	266	0.0229568
39.400	242	243	0.0277778
39.410	211	206	0.0318878
39.420	177	175	0.0384468
39.430	148	155	0.0452694
39.440	145	141	0.0452694
39.450	136	133	0.0493827
39.460	118	127	0.0566893
39.470	127	124	0.0516529
39.480	122	121	0.0540833
39.490	116	119	0.0566893
39.500	117	119	0.0566893
39.510	119	118	0.0566893
39.520	123	119	0.0540833
39.530	124	120	0.0540833

39.540	126	121	0.0540833
39.550	123	124	0.0540833
39.560	125	127	0.0540833
39.570	127	131	0.0516529
39.580	133	134	0.0493827
39.590	139	139	0.0472590
39.600	142	145	0.0472590
39.610	160	155	0.0416493
39.620	152	165	0.0434028
39.630	168	172	0.0400000
39.640	167	172	0.0400000
39.650	157	168	0.0416493
39.660	162	164	0.0416493
39.670	161	167	0.0416493
39.680	175	179	0.0384468
39.690	207	203	0.0318878
39.700	258	237	0.0260146
39.710	294	265	0.0222767
39.720	268	262	0.0251953
39.730	212	225	0.0318878
39.740	180	186	0.0369822
39.750	159	160	0.0416493
39.760	140	143	0.0472590
39.770	136	133	0.0493827
39.780	123	126	0.0540833
39.790	118	122	0.0566893
39.800	121	118	0.0540833
39.810	117	116	0.0566893
39.820	119	114	0.0566893
39.830	117	113	0.0566893
39.840	113	112	0.0594884
39.850	111	111	0.0594884
39.860	112	110	0.0594884
39.870	113	110	0.0594884
39.880	117	110	0.0566893
39.890	109	109	0.0594884
39.900	111	109	0.0594884
39.910	116	109	0.0566893
39.920	115	109	0.0566893
39.930	102	110	0.0657462
39.940	107	110	0.0625000
39.950	120	110	0.0540833
39.960	110	111	0.0594884
39.970	111	112	0.0594884
39.980	118	114	0.0566893
39.990	121	118	0.0540833
40.000	130	121	0.0516529
40.010	129	124	0.0516529
40.020	127	123	0.0516529
40.030	123	123	0.0540833
40.040	133	125	0.0493827
40.050	120	128	0.0540833
40.060	133	133	0.0493827
40.070	136	138	0.0493827

40.080	135	141	0.0493827
40.090	131	140	0.0516529
40.100	136	139	0.0493827
40.110	130	140	0.0516529
40.120	137	143	0.0493827
40.130	142	150	0.0472590
40.140	156	162	0.0416493
40.150	175	181	0.0384468
40.160	209	207	0.0318878
40.170	250	235	0.0268745
40.180	258	256	0.0260146
40.190	258	254	0.0260146
40.200	223	229	0.0297265
40.210	182	199	0.0369822
40.220	157	173	0.0416493
40.230	142	155	0.0472590
40.240	145	143	0.0452694
40.250	140	134	0.0472590
40.260	129	129	0.0516529
40.270	118	125	0.0566893
40.280	121	122	0.0540833
40.290	116	120	0.0566893
40.300	120	118	0.0540833
40.310	116	117	0.0566893
40.320	114	117	0.0594884
40.330	122	116	0.0540833
40.340	118	117	0.0566893
40.350	106	117	0.0625000
40.360	116	118	0.0566893
40.370	119	119	0.0540833
40.380	119	121	0.0566893
40.390	130	123	0.0516529
40.400	123	126	0.0540833
40.410	124	131	0.0540833
40.420	125	138	0.0516529
40.430	142	147	0.0472590
40.440	157	160	0.0416493
40.450	174	180	0.0384468
40.460	194	207	0.0342936
40.470	237	239	0.0277778
40.480	280	269	0.0236686
40.490	287	278	0.0229568
40.500	259	260	0.0251953
40.510	219	228	0.0297265
40.520	187	199	0.0355999
40.530	179	179	0.0369822
40.540	162	167	0.0400000
40.550	166	162	0.0400000
40.560	163	158	0.0400000
40.570	151	153	0.0434028
40.580	142	144	0.0472590
40.590	133	135	0.0493827
40.600	131	128	0.0493827
40.610	128	123	0.0516529

40.620	110	119	0.0594884
40.630	117	117	0.0566893
40.640	110	115	0.0594884
40.650	111	113	0.0594884
40.660	106	112	0.0625000
40.670	113	111	0.0566893
40.680	108	111	0.0594884
40.690	111	110	0.0594884
40.700	113	110	0.0594884
40.710	108	109	0.0594884
40.720	114	109	0.0566893
40.730	100	109	0.0657462
40.740	103	109	0.0625000
40.750	106	110	0.0625000
40.760	114	110	0.0566893
40.770	114	110	0.0566893
40.780	109	111	0.0594884
40.790	110	112	0.0594884
40.800	110	113	0.0594884
40.810	114	114	0.0566893
40.820	118	116	0.0566893
40.830	119	119	0.0540833
40.840	118	122	0.0566893
40.850	121	128	0.0540833
40.860	135	136	0.0493827
40.870	136	148	0.0493827
40.880	167	168	0.0400000
40.890	201	199	0.0330579
40.900	283	242	0.0229568
40.910	328	283	0.0198373
40.920	295	288	0.0222767
40.930	229	248	0.0287274
40.940	182	200	0.0355999
40.950	160	167	0.0416493
40.960	151	147	0.0434028
40.970	138	135	0.0472590
40.980	128	127	0.0516529
40.990	124	122	0.0516529
41.000	122	119	0.0540833
41.010	119	116	0.0540833
41.020	114	115	0.0566893
41.030	110	114	0.0594884
41.040	114	113	0.0566893
41.050	104	112	0.0625000
41.060	107	112	0.0625000
41.070	109	112	0.0594884
41.080	106	112	0.0625000
41.090	113	113	0.0566893
41.100	117	113	0.0566893
41.110	117	115	0.0566893
41.120	117	116	0.0566893
41.130	120	119	0.0540833
41.140	121	122	0.0540833
41.150	118	127	0.0566893

41.160	130	134	0.0493827
41.170	142	145	0.0472590
41.180	160	161	0.0416493
41.190	195	184	0.0342936
41.200	227	209	0.0287274
41.210	251	226	0.0260146
41.220	229	222	0.0287274
41.230	200	200	0.0330579
41.240	173	175	0.0384468
41.250	152	154	0.0434028
41.260	134	140	0.0493827
41.270	135	131	0.0493827
41.280	117	124	0.0566893
41.290	117	120	0.0566893
41.300	114	118	0.0566893
41.310	116	116	0.0566893
41.320	120	115	0.0540833
41.330	117	114	0.0566893
41.340	115	114	0.0566893
41.350	113	114	0.0594884
41.360	119	115	0.0566893
41.370	119	116	0.0540833
41.380	117	117	0.0566893
41.390	121	118	0.0540833
41.400	120	118	0.0540833
41.410	120	118	0.0540833
41.420	119	118	0.0540833
41.430	119	118	0.0540833
41.440	120	120	0.0540833
41.450	126	123	0.0516529
41.460	122	128	0.0540833
41.470	131	135	0.0493827
41.480	134	148	0.0493827
41.490	159	167	0.0416493
41.500	210	197	0.0307787
41.510	246	232	0.0268745
41.520	263	255	0.0251953
41.530	255	248	0.0260146
41.540	196	216	0.0330579
41.550	165	182	0.0400000
41.560	148	157	0.0434028
41.570	140	141	0.0472590
41.580	132	131	0.0493827
41.590	124	125	0.0540833
41.600	121	120	0.0540833
41.610	112	118	0.0594884
41.620	120	116	0.0540833
41.630	119	114	0.0540833
41.640	114	114	0.0566893
41.650	116	113	0.0566893
41.660	105	113	0.0625000
41.670	112	114	0.0594884
41.680	113	115	0.0566893
41.690	116	117	0.0566893

41.700	112	119	0.0594884
41.710	121	123	0.0540833
41.720	127	130	0.0516529
41.730	141	139	0.0452694
41.740	167	151	0.0384468
41.750	196	165	0.0330579
41.760	198	174	0.0330579
41.770	185	172	0.0355999
41.780	171	158	0.0384468
41.790	137	143	0.0472590
41.800	139	132	0.0472590
41.810	126	126	0.0516529
41.820	121	122	0.0540833
41.830	124	120	0.0516529
41.840	115	120	0.0566893
41.850	122	121	0.0540833
41.860	121	122	0.0540833
41.870	132	124	0.0493827
41.880	121	123	0.0540833
41.890	123	121	0.0540833
41.900	115	118	0.0566893
41.910	114	115	0.0566893
41.920	114	114	0.0566893
41.930	107	112	0.0594884
41.940	114	112	0.0566893
41.950	115	112	0.0566893
41.960	113	112	0.0566893
41.970	109	113	0.0594884
41.980	107	114	0.0594884
41.990	115	117	0.0566893
42.000	113	120	0.0566893
42.010	120	124	0.0540833
42.020	122	129	0.0540833
42.030	131	134	0.0493827
42.040	129	137	0.0493827
42.050	129	139	0.0493827
42.060	136	141	0.0472590
42.070	146	146	0.0452694
42.080	161	154	0.0400000
42.090	178	165	0.0369822
42.100	191	174	0.0342936
42.110	189	175	0.0342936
42.120	160	166	0.0400000
42.130	149	152	0.0434028
42.140	140	138	0.0452694
42.150	120	129	0.0540833
42.160	118	122	0.0540833
42.170	125	118	0.0516529
42.180	109	116	0.0594884
42.190	112	114	0.0566893
42.200	106	113	0.0625000
42.210	108	112	0.0594884
42.220	108	112	0.0594884
42.230	108	112	0.0594884

42.240	113	113	0.0566893
42.250	107	114	0.0594884
42.260	109	115	0.0594884
42.270	128	117	0.0493827
42.280	121	121	0.0540833
42.290	118	125	0.0540833
42.300	128	132	0.0493827
42.310	139	141	0.0472590
42.320	152	152	0.0434028
42.330	171	162	0.0384468
42.340	185	168	0.0355999
42.350	184	165	0.0355999
42.360	157	155	0.0416493
42.370	138	143	0.0472590
42.380	126	133	0.0516529
42.390	128	126	0.0516529
42.400	121	121	0.0540833
42.410	115	118	0.0566893
42.420	109	116	0.0594884
42.430	114	115	0.0566893
42.440	110	114	0.0594884
42.450	118	114	0.0540833
42.460	110	114	0.0594884
42.470	122	113	0.0540833
42.480	111	112	0.0594884
42.490	106	111	0.0594884
42.500	108	110	0.0594884
42.510	103	109	0.0625000
42.520	105	109	0.0625000
42.530	112	109	0.0566893
42.540	108	109	0.0594884
42.550	107	109	0.0594884
42.560	111	110	0.0594884
42.570	106	111	0.0594884
42.580	113	111	0.0566893
42.590	110	113	0.0594884
42.600	112	114	0.0566893
42.610	113	117	0.0566893
42.620	113	120	0.0566893
42.630	118	125	0.0540833
42.640	137	132	0.0472590
42.650	135	144	0.0472590
42.660	176	162	0.0369822
42.670	213	189	0.0307787
42.680	262	218	0.0244141
42.690	256	228	0.0251953
42.700	206	209	0.0307787
42.710	175	184	0.0369822
42.720	177	170	0.0369822
42.730	163	166	0.0400000
42.740	169	168	0.0384468
42.750	184	168	0.0355999
42.760	166	163	0.0384468
42.770	157	153	0.0416493

42.780	144	143	0.0452694
42.790	137	134	0.0472590
42.800	141	128	0.0452694
42.810	125	124	0.0516529
42.820	125	122	0.0516529
42.830	118	120	0.0540833
42.840	119	120	0.0540833
42.850	125	121	0.0516529
42.860	118	122	0.0540833
42.870	116	125	0.0566893
42.880	123	130	0.0516529
42.890	129	139	0.0493827
42.900	145	154	0.0452694
42.910	177	179	0.0369822
42.920	257	216	0.0251953
42.930	272	253	0.0236686
42.940	246	257	0.0260146
42.950	205	220	0.0307787
42.960	162	179	0.0400000
42.970	144	153	0.0452694
42.980	125	138	0.0516529
42.990	132	128	0.0493827
43.000	130	123	0.0493827
43.010	118	119	0.0540833
43.020	112	116	0.0566893
43.030	115	115	0.0566893
43.040	113	114	0.0566893
43.050	113	113	0.0566893
43.060	110	113	0.0594884
43.070	114	113	0.0566893
43.080	114	114	0.0566893
43.090	110	116	0.0594884
43.100	119	118	0.0540833
43.110	118	122	0.0540833
43.120	133	126	0.0493827
43.130	128	131	0.0384468
43.140	134	135	0.0369822
43.150	138	135	0.0355999
43.160	136	134	0.0369822
43.170	121	132	0.0416493
43.180	135	132	0.0369822
43.190	135	133	0.0369822
43.200	143	133	0.0342936
43.210	136	131	0.0369822
43.220	130	128	0.0384468
43.230	130	127	0.0384468
43.240	125	128	0.0400000
43.250	135	131	0.0369822
43.260	139	134	0.0355999
43.270	147	134	0.0342936
43.280	128	129	0.0384468
43.290	119	122	0.0416493
43.300	116	118	0.0434028
43.310	120	114	0.0416493

43.320	116	112	0.0434028
43.330	112	111	0.0452694
43.340	105	110	0.0472590
43.350	111	110	0.0452694
43.360	102	110	0.0493827
43.370	114	110	0.0434028
43.380	112	110	0.0452694
43.390	107	110	0.0472590
43.400	109	111	0.0452694
43.410	112	112	0.0452694
43.420	116	113	0.0434028
43.430	106	114	0.0472590
43.440	103	116	0.0452694
43.450	121	119	0.0384468
43.460	127	122	0.0355999
43.470	124	126	0.0369822
43.480	132	133	0.0342936
43.490	139	142	0.0330579
43.500	148	155	0.0307787
43.510	162	173	0.0287274
43.520	200	198	0.0229568
43.530	245	230	0.0187652
43.540	299	260	0.0152416
43.550	284	269	0.0160231
43.560	243	247	0.0187652
43.570	209	215	0.0222767
43.580	175	190	0.0260146
43.590	167	175	0.0277778
43.600	185	168	0.0251953
43.610	165	164	0.0277778
43.620	168	158	0.0277778
43.630	154	149	0.0297265
43.640	151	139	0.0307787
43.650	125	132	0.0369822
43.660	125	126	0.0369822
43.670	129	122	0.0355999
43.680	123	120	0.0369822
43.690	115	118	0.0400000
43.700	121	118	0.0384468
43.710	117	117	0.0384468
43.720	114	116	0.0400000
43.730	107	115	0.0434028
43.740	111	113	0.0416493
43.750	105	112	0.0434028
43.760	109	111	0.0416493
43.770	110	110	0.0416493
43.780	105	109	0.0434028
43.790	107	108	0.0434028
43.800	109	108	0.0416493
43.810	108	107	0.0416493
43.820	107	106	0.0434028
43.830	113	106	0.0400000
43.840	100	106	0.0452694
43.850	100	106	0.0452694

43.860	95	105	0.0472590
43.870	98	105	0.0493827
43.880	104	105	0.0493827
43.890	101	105	0.0516529
43.900	107	105	0.0493827
43.910	104	106	0.0493827
43.920	107	106	0.0493827
43.930	109	106	0.0472590
43.940	101	107	0.0516529
43.950	106	108	0.0493827
43.960	107	109	0.0493827
43.970	111	110	0.0472590
43.980	121	112	0.0434028
43.990	124	114	0.0416493
44.000	114	115	0.0452694
44.010	109	114	0.0472590
44.020	114	112	0.0452694
44.030	115	111	0.0452694
44.040	111	110	0.0472590
44.050	112	109	0.0452694
44.060	105	109	0.0493827
44.070	110	110	0.0472590
44.080	108	110	0.0472590
44.090	105	111	0.0493827
44.100	110	113	0.0472590
44.110	118	115	0.0434028
44.120	120	118	0.0434028
44.130	123	122	0.0416493
44.140	118	128	0.0434028
44.150	148	136	0.0355999
44.160	158	146	0.0330579
44.170	166	156	0.0307787
44.180	165	161	0.0307787
44.190	174	158	0.0297265
44.200	156	149	0.0330579
44.210	141	138	0.0369822
44.220	128	130	0.0400000
44.230	113	123	0.0452694
44.240	123	119	0.0416493
44.250	108	116	0.0472590
44.260	109	114	0.0472590
44.270	110	112	0.0472590
44.280	108	111	0.0472590
44.290	106	111	0.0493827
44.300	110	111	0.0472590
44.310	112	112	0.0472590
44.320	108	113	0.0472590
44.330	115	116	0.0452694
44.340	122	121	0.0434028
44.350	132	127	0.0384468
44.360	128	132	0.0400000
44.370	140	134	0.0369822
44.380	155	135	0.0330579
44.390	146	138	0.0355999

44.400	158	139	0.0330579
44.410	135	134	0.0384468
44.420	135	125	0.0384468
44.430	113	119	0.0452694
44.440	111	114	0.0472590
44.450	105	112	0.0493827
44.460	110	110	0.0472590
44.470	109	110	0.0472590
44.480	112	109	0.0452694
44.490	111	109	0.0472590
44.500	107	109	0.0472590
44.510	113	110	0.0452694
44.520	106	111	0.0493827
44.530	107	112	0.0493827
44.540	111	113	0.0472590
44.550	124	116	0.0416493
44.560	118	119	0.0434028
44.570	125	124	0.0416493
44.580	130	130	0.0400000
44.590	135	139	0.0384468
44.600	144	151	0.0355999
44.610	176	165	0.0297265
44.620	194	180	0.0268745
44.630	218	194	0.0236686
44.640	206	201	0.0251953
44.650	187	191	0.0277778
44.660	173	176	0.0297265
44.670	166	166	0.0307787
44.680	158	162	0.0330579
44.690	157	158	0.0330579
44.700	140	149	0.0369822
44.710	151	139	0.0342936
44.720	127	129	0.0400000
44.730	121	123	0.0434028
44.740	116	119	0.0452694
44.750	121	116	0.0434028
44.760	114	114	0.0452694
44.770	106	113	0.0493827
44.780	126	113	0.0416493
44.790	116	114	0.0452694
44.800	123	115	0.0416493
44.810	120	118	0.0434028
44.820	115	121	0.0452694
44.830	125	125	0.0416493
44.840	129	127	0.0400000
44.850	127	125	0.0400000
44.860	121	122	0.0434028
44.870	113	118	0.0452694
44.880	116	115	0.0452694
44.890	124	113	0.0416493
44.900	105	111	0.0493827
44.910	115	111	0.0452694
44.920	113	111	0.0452694
44.930	114	112	0.0452694

44.940	112	114	0.0472590
44.950	121	117	0.0434028
44.960	129	120	0.0400000
44.970	131	124	0.0400000
44.980	133	126	0.0384468
44.990	132	129	0.0384468
45.000	140	134	0.0369822

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