

data_CuPcCl16_ED_anisoADP

#=====

PROCESSING SUMMARY (IUCr Office Use Only)

_journal_date_recd_electronic 2021-05-17
_journal_date_to_coeditor ?
_journal_date_from_coeditor ?
_journal_date_accepted 2021-06-29
_journal_date_printers_first ?
_journal_date_printers_final ?
_journal_date_proofs_out ?
_journal_date_proofs_in ?
_journal_coeditor_name ?
_journal_coeditor_code JE5043SUP1
_journal_coeditor_notes
; ?
;
_journal_paper_category FA
_journal_techeditor_code B210680
_iucr_compatibility_tag ACTA95
_journal_techeditor_notes
;
;
_journal_codен ASTM ?
_journal_name_full ?
_journal_year ?
_journal_volume ?
_journal_issue ?
_journal_page_first ?
_journal_page_last ?
_journal_suppl_publ_number ?
_journal_suppl_publ_pages ?

#=====

_database_code_depnum_ccdc_archive 'CCDC 2080220'
loop_
_audit_author_name
_audit_author_address
'Tim Gruene'
;Centre of Xray Structure Analysis, University of Vienna
Austria
;
_audit_update_record
;
2021-04-26 deposited with the CCDC. 2021-05-17 downloaded from the CCDC.
;
start Validation Reply Form
_vrf_RADNT01_CuPcCl16_ED_anisoADP
;
PROBLEM: The radiation type should contain one of the following
RESPONSE: The structure was determined using electron diffraction.
;
_vrf_RINTA01_CuPcCl16_ED_anisoADP
;
PROBLEM: The value of Rint is greater than 0.25
RESPONSE: Data processing of electron diffraction data still has room for
improvement. E.g., dynamic scattering effects were not taken into account.
;
_vrf_PLAT020_CuPcCl16_ED_anisoADP
;
PROBLEM: The Value of Rint is Greater Than 0.12 0.306 Report
RESPONSE: Data processing of electron diffraction data still has room for
improvement. E.g., dynamic scattering effects were not taken into account.
;
_vrf_PLAT029_CuPcCl16_ED_anisoADP
;
;

PROBLEM: _diffrn_measured_fraction_theta_full value Low . 0.754 Why?
RESPONSE: Crystals were thin platelets. Several crystals were merged, but because of the preferred orientation, and shading by the sample holder, data are systematically incomplete and radiation damage limited the resolution.

;
_vrf_PLAT074_CuPcCl16_ED_anisoADP

;
PROBLEM: Occupancy Parameter = 0.0 for H4 Check
RESPONSE: The occupancy of the Cl atoms refined to > 1. Please refer to the publication for explanation.

;
_vrf_PLAT075_CuPcCl16_ED_anisoADP

;
PROBLEM: Occupancy 1.070 Greater Than 1.0 for CL4
RESPONSE: The occupancy of the Cl atoms refined to > 1. Please refer to the publication for explanation.

;
_vrf_PLAT082_CuPcCl16_ED_anisoADP

;
PROBLEM: High R1 Value 0.28 Report
RESPONSE: The model was refined assuming kinematic theory. Dynamic effects were not taken into account. We did attempt to refine dynamically with PETS 2.0, but due to the high mosaicity of the crystals, this did not succeed.

;
_vrf_PLAT084_CuPcCl16_ED_anisoADP

;
PROBLEM: High wR2 Value (i.e. > 0.25) 0.66 Report
RESPONSE: The model was refined assuming kinematic theory. Dynamic effects were not taken into account. We did attempt to refine dynamically with PETS 2.0, but due to the high mosaicity of the crystals, this did not succeed.

;
_vrf_PLAT184_CuPcCl16_ED_anisoADP

;
PROBLEM: Missing _cell_measurement_theta_min Value Please Do !
RESPONSE: The cell was determined with EDT. It uses strong reflections, but the spread in 2theta is not reported.

;
_vrf_PLAT185_CuPcCl16_ED_anisoADP

;
PROBLEM: Missing _cell_measurement_theta_max Value Please Do !
RESPONSE: The cell was determined with EDT. It uses strong reflections, but the spread in 2theta is not reported.

;
_vrf_PLAT341_CuPcCl16_ED_anisoADP

;
PROBLEM: Low Bond Precision on C-C Bonds 0.0169 Ang.
RESPONSE: This is probably due to the systematically incomplete data, see PLAT029_CuPcCl16_ED_final

;
end Validation Reply Form

_audit_creation_method SHELXL-2018/3
_shelx_SHELXL_version_number 2018/3
_chemical_name_systematic 'cupper perchlorophthalocyanine'
_chemical_name_common 'Pigment Green 7'
_chemical_melting_point ?
_chemical_formula_moiety 'C32 N8 Cl16 Cu'
_chemical_formula_sum 'C32 Cl18.09 Cu N8'
_chemical_formula_weight 1199.21

loop_
_atom_type_symbol
_atom_type_description
_atom_type_scatter_dispersion_real
_atom_type_scatter_dispersion_imag
_atom_type_scatter_source
C C 0.0000 0.0000 'International Tables Vol C Tables 4.3.1.1 and 4.3.2.2'
H H 0.0000 0.0000 'International Tables Vol C Tables 4.3.1.1 and 4.3.2.2'
B B 0.0000 0.0000 'International Tables Vol C Tables 4.3.1.1 and 4.3.2.2'

N N 0.0000 0.0000 'International Tables Vol C Tables 4.3.1.1 and 4.3.2.2'
F F 0.0000 0.0000 'International Tables Vol C Tables 4.3.1.1 and 4.3.2.2'
S S 0.0000 0.0000 'International Tables Vol C Tables 4.3.1.1 and 4.3.2.2'

_space_group_crystal_system monoclinic
_space_group_IT_number 12
_space_group_name_H-M_alt 'C 2/m'
_space_group_name_Hall '-C 2y'

_shelx_space_group_comment

;
The symmetry employed for this shelxl refinement is uniquely defined
by the following loop, which should always be used as a source of
symmetry information in preference to the above space-group names.
They are only intended as comments.
;

loop_

_space_group_symop_operation_xyz

'x, y, z'
'-x, y, -z'
'x+1/2, y+1/2, z'
'-x+1/2, y+1/2, -z'
'-x, -y, -z'
'x, -y, z'
'-x+1/2, -y+1/2, -z'
'x+1/2, -y+1/2, z'

_cell_length_a 17.685(4)
_cell_length_b 25.918(5)
_cell_length_c 3.8330(8)
_cell_angle_alpha 90
_cell_angle_beta 95.05(3)
_cell_angle_gamma 90
_cell_volume 1750.1(6)
_cell_formula_units_Z 2
_cell_measurement_temperature 293(2)
_cell_measurement_reflns_used 253
_cell_measurement_theta_min ?
_cell_measurement_theta_max ?

_exptl_crystal_description 'square platelets'
_exptl_crystal_colour blue
_exptl_crystal_density_meas ?
_exptl_crystal_density_method ?
_exptl_crystal_density_diffrn 2.276
_exptl_crystal_F_000 381
_exptl_transmission_factor_min ?
_exptl_transmission_factor_max ?
_exptl_crystal_size_max 0.0005
_exptl_crystal_size_mid 0.0005
_exptl_crystal_size_min 0.0001
_exptl_absorpt_coefficient_mu 0.000
_shelx_estimated_absorpt_T_min ?
_shelx_estimated_absorpt_T_max ?
_exptl_absorpt_correction_type empirical
_exptl_absorpt_correction_T_min ?
_exptl_absorpt_correction_T_max ?
_exptl_absorpt_process_details ?
_exptl_absorpt_special_details 'electron diffraction, unknown absorption'
_diffrn_ambient_temperature 293(2)
_diffrn_radiation_wavelength 0.02508
_diffrn_radiation_probe electron
_diffrn_radiation_type 'monochromatic beam'
_diffrn_source 'transmission electron microscope'
_diffrn_source_voltage 200
_diffrn_detector 'CCD area detector'
_diffrn_detector_type 'Gatan MSC 2k'
_diffrn_measurement_device_type 'transmission electron microscope'

```

_diffrn_measurement_method      ?
_diffrn_detector_area_resol_mean 71.428
_diffrn_reflns_number           5758
_diffrn_reflns_av_unetI/netI     0.2132
_diffrn_reflns_av_R_equivalents  0.3061
_diffrn_reflns_limit_h_min      -24
_diffrn_reflns_limit_h_max      24
_diffrn_reflns_limit_k_min      -37
_diffrn_reflns_limit_k_max      42
_diffrn_reflns_limit_l_min      -5
_diffrn_reflns_limit_l_max      5
_diffrn_reflns_theta_min        0.049
_diffrn_reflns_theta_max        1.219
_diffrn_reflns_theta_full       0.862
_diffrn_measured_fraction_theta_max 0.394
_diffrn_measured_fraction_theta_full 0.754
_diffrn_reflns_Laue_measured_fraction_max 0.394
_diffrn_reflns_Laue_measured_fraction_full 0.754
_diffrn_reflns_point_group_measured_fraction_max 0.394
_diffrn_reflns_point_group_measured_fraction_full 0.754
_reflns_number_total            1796
_reflns_number_gt               1505
_reflns_threshold_expression     'I > 2\s(I)''
_reflns_Friedel_coverage        0.000
_reflns_Friedel_fraction_max    .
_reflns_Friedel_fraction_full   .

```

```
_reflns_special_details
```

```
;
Reflections were merged by SHELXL according to the crystal
class for the calculation of statistics and refinement.
```

```
_reflns_Friedel_fraction is defined as the number of unique
Friedel pairs measured divided by the number that would be
possible theoretically, ignoring centric projections and
systematic absences.
```

```
;
```

```

_computing_data_collection      ?
_computing_cell_refinement      ?
_computing_data_reduction       ?
_computing_structure_solution    ?
_computing_structure_refinement 'SHELXL-2018/3 (Sheldrick, 2018)''
_computing_molecular_graphics   'SHELXLE PLATON''
_computing_publication_material ?
_refine_special_details
; electron scattering factors derived from Peng (1999)'
;
_refine_ls_structure_factor_coef Fsqd
_refine_ls_matrix_type          full
_refine_ls_weighting_scheme      calc
_refine_ls_weighting_details
'w=1/[\s^2^(Fo^2^)+(0.2000P)^2^] where P=(Fo^2^+2Fc^2^)/3'
_atom_sites_solution_primary     ?
_atom_sites_solution_secondary   ?
_atom_sites_solution_hydrogens   geom
_refine_ls_hydrogen_treatment    constr
_refine_ls_extinction_method     none
_refine_ls_extinction_coef       .
_refine_ls_number_reflns        1796
_refine_ls_number_parameters     137
_refine_ls_number_restraints    109
_refine_ls_R_factor_all          0.2948
_refine_ls_R_factor_gt          0.2785
_refine_ls_wR_factor_ref        0.6640
_refine_ls_wR_factor_gt         0.6582
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_refine_ls_restrained_S_all     3.047
_refine_ls_shift/su_max         0.000

```

_refine_ls_shift/su_mean 0.000

loop_

_atom_site_label
_atom_site_type_symbol
_atom_site_fract_x
_atom_site_fract_y
_atom_site_fract_z
_atom_site_U_iso_or_equiv
_atom_site_adp_type
_atom_site_occupancy
_atom_site_site_symmetry_order
_atom_site_calc_flag
_atom_site_refinement_flags_posn
_atom_site_refinement_flags_adp
_atom_site_refinement_flags_occupancy
_atom_site_disorder_assembly
_atom_site_disorder_group

Cu1 Cu 0.000000 0.000000 0.000000 0.0312(17) Uani 1 4 d S T P . .
Cl1 Cl 0.1649(5) -0.2081(2) -0.242(3) 0.075(4) Uani 1.29(6) 1 d . . P A 2
Cl2 Cl 0.0804(6) -0.3074(2) -0.123(3) 0.060(4) Uani 0.86(5) 1 d . . P B 3
Cl3 Cl 0.2756(6) -0.1207(3) -0.545(3) 0.072(4) Uani 1.08(6) 1 d . . P C 4
Cl4 Cl 0.4123(4) -0.0602(3) -0.767(2) 0.073(3) Uani 1.29(6) 1 d . . P D 5
N1 N 0.000000 -0.0762(4) 0.000000 0.033(3) Uani 1 2 d S T P . .
N2 N 0.0978(5) 0.000000 -0.213(4) 0.028(3) Uani 1 2 d S T P . .
N3 N 0.1207(5) -0.0896(3) -0.247(3) 0.0238(19) Uani 1 1 d
C1 C 0.1367(5) -0.0423(4) -0.286(3) 0.026(2) Uani 1 1 d
C2 C 0.2098(7) -0.0256(4) -0.416(3) 0.033(3) Uani 1 1 d
C3 C 0.2692(5) -0.0601(5) -0.542(3) 0.033(3) Uani 1 1 d
H3 H 0.266309 -0.101632 -0.562457 0.040 Uiso 0.00(6) 1 calc R U P C 14
C4 C 0.3363(6) -0.0253(3) -0.638(3) 0.024(2) Uani 1 1 d
H4 H 0.386881 -0.044465 -0.710158 0.029 Uiso 0.00(6) 1 calc R U P D 15
C5 C 0.0572(6) -0.1038(4) -0.093(4) 0.032(2) Uani 1 1 d
C6 C 0.0350(6) -0.1579(4) -0.067(3) 0.026(2) Uani 1 1 d
C7 C 0.0739(10) -0.2052(5) -0.116(4) 0.050(4) Uani 1 1 d
H7 H 0.130949 -0.204663 -0.196178 0.059 Uiso 0.00(6) 1 calc R U P A 12
C8 C 0.0376(7) -0.2535(5) -0.0583(16) 0.047(4) Uani 1 1 d
H8 H 0.066232 -0.289462 -0.101810 0.057 Uiso 0.14(5) 1 calc R U P B 13

loop_

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_atom_site_aniso_U_11
_atom_site_aniso_U_22
_atom_site_aniso_U_33
_atom_site_aniso_U_23
_atom_site_aniso_U_13
_atom_site_aniso_U_12

Cu1 0.039(3) 0.0214(19) 0.036(4) 0.000 0.016(3) 0.000
Cl1 0.090(5) 0.034(3) 0.105(7) 0.010(3) 0.040(5) 0.014(3)
Cl2 0.080(6) 0.014(2) 0.088(9) -0.005(3) 0.018(5) 0.005(2)
Cl3 0.077(5) 0.045(4) 0.098(9) -0.014(4) 0.029(5) -0.008(3)
Cl4 0.068(4) 0.058(4) 0.099(7) -0.009(4) 0.034(4) 0.009(3)
N1 0.033(5) 0.019(4) 0.050(9) 0.000 0.025(5) 0.000
N2 0.016(4) 0.025(4) 0.044(8) 0.000 0.006(4) 0.000
N3 0.032(3) 0.012(2) 0.027(5) -0.008(3) 0.003(3) -0.003(2)
C1 0.022(3) 0.024(3) 0.031(6) -0.006(3) -0.004(3) -0.008(3)
C2 0.043(4) 0.021(4) 0.037(7) -0.009(4) 0.017(4) -0.017(3)
C3 0.026(4) 0.040(4) 0.035(7) -0.006(5) 0.005(4) -0.005(3)
C4 0.041(4) 0.013(3) 0.018(6) -0.003(3) 0.001(4) -0.002(3)
C5 0.033(4) 0.021(3) 0.042(7) 0.000(4) 0.002(4) -0.006(3)
C6 0.040(5) 0.022(3) 0.014(6) 0.010(3) -0.017(4) -0.009(3)
C7 0.080(8) 0.028(4) 0.044(9) 0.024(5) 0.027(8) 0.012(5)
C8 0.070(7) 0.023(4) 0.053(9) 0.013(5) 0.029(7) 0.019(4)

_geom_special_details

;

All esds (except the esd in the dihedral angle between two l.s. planes) are estimated using the full covariance matrix. The cell esds are taken into account individually in the estimation of esds in distances, angles

and torsion angles; correlations between esds in cell parameters are only used when they are defined by crystal symmetry. An approximate (isotropic) treatment of cell esds is used for estimating esds involving l.s. planes.

;

```
loop_
  _geom_bond_atom_site_label_1
  _geom_bond_atom_site_label_2
  _geom_bond_distance
  _geom_bond_site_symmetry_2
  _geom_bond_publ_flag
Cu1 N1 1.976(11) . ?
Cu1 N1 1.976(11) 5 ?
Cu1 N2 1.976(10) 5 ?
Cu1 N2 1.976(10) . ?
C11 C7 1.722(16) . ?
C12 C8 1.618(13) . ?
C13 C3 1.575(17) . ?
C14 C4 1.727(11) . ?
N1 C5 1.314(12) 2 ?
N1 C5 1.314(12) . ?
N2 C1 1.337(11) . ?
N2 C1 1.337(11) 6 ?
N3 C1 1.271(12) . ?
N3 C5 1.365(12) . ?
C1 C2 1.489(12) . ?
C2 C2 1.33(2) 6 ?
C2 C3 1.491(14) . ?
C3 C4 1.560(14) . ?
C4 C4 1.313(16) 6 ?
C5 C6 1.460(15) . ?
C6 C6 1.38(2) 2 ?
C6 C7 1.427(18) . ?
C7 C8 1.433(19) . ?
C8 C8 1.44(3) 2 ?
```

```
loop_
  _geom_angle_atom_site_label_1
  _geom_angle_atom_site_label_2
  _geom_angle_atom_site_label_3
  _geom_angle
  _geom_angle_site_symmetry_1
  _geom_angle_site_symmetry_3
  _geom_angle_publ_flag
N1 Cu1 N1 180.0 . 5 ?
N1 Cu1 N2 90.0 . 5 ?
N1 Cu1 N2 90.0 5 5 ?
N1 Cu1 N2 90.0 . . ?
N1 Cu1 N2 90.0 5 . ?
N2 Cu1 N2 180.0(2) 5 . ?
C5 N1 C5 114.0(12) 2 . ?
C5 N1 Cu1 123.0(6) 2 . ?
C5 N1 Cu1 123.0(6) . . ?
C1 N2 C1 110.1(10) . 6 ?
C1 N2 Cu1 124.9(5) . . ?
C1 N2 Cu1 124.9(5) 6 . ?
C1 N3 C5 120.8(8) . . ?
N3 C1 N2 130.0(8) . . ?
N3 C1 C2 121.9(9) . . ?
N2 C1 C2 108.1(8) . . ?
C2 C2 C1 106.8(5) 6 . ?
C2 C2 C3 126.8(6) 6 . ?
C1 C2 C3 126.3(9) . . ?
C2 C3 C4 107.6(9) . . ?
C2 C3 C13 130.8(8) . . ?
C4 C3 C13 121.2(8) . . ?
C4 C4 C3 125.3(6) 6 . ?
C4 C4 C14 121.5(4) 6 . ?
C3 C4 C14 113.1(7) . . ?
```

N1 C5 N3 130.8(10) . . ?
 N1 C5 C6 106.6(9) . . ?
 N3 C5 C6 121.6(10) . . ?
 C6 C6 C7 120.4(7) 2 . ?
 C6 C6 C5 106.3(6) 2 . ?
 C7 C6 C5 132.9(11) . . ?
 C6 C7 C8 120.2(12) . . ?
 C6 C7 C11 123.1(10) . . ?
 C8 C7 C11 116.6(10) . . ?
 C7 C8 C8 119.1(7) . 2 ?
 C7 C8 C12 120.5(10) . . ?
 C8 C8 C12 120.4(6) 2 . ?

_refine_diff_density_max 0.394
 _refine_diff_density_min -0.411
 _refine_diff_density_rms 0.102

_shelx_res_file

;

TITL CuPcCl16_solutionC2/matoms_correct_6

CuPcCl16_ED_anisoADP.res

created by SHELXL-2018/3 at 15:35:54 on 23-Apr-2021

CELL 0.02508 17.6850 25.9180 3.8330 90.000 95.050 90.000
 ZERR 2 0.00354 0.00518 0.00077 0.0000 0.0300 0.0000

LATT 7

SYMM - X , Y , - Z
 SFAC C 0.151 66.500 0.766 27.556 1.005 10.571 0.509 2.650 0.078 =
 0.0 0.0 0.000 0.770 12.011
 SFAC Cl 0.907 1.535 1.978 8.831 1.556 22.789 0.329 51.693 0.087 =
 0.0 0.0 0.000 1.020 35.450
 SFAC Cu 0.506 110.498 1.215 44.358 1.370 14.087 2.025 3.074 0.485 =
 0.0 0.0 0.000 1.400 63.546
 SFAC N 0.145 46.206 0.529 21.787 0.934 8.888 0.537 2.145 0.066 =
 0.0 0.0 0.000 0.710 14.007
 SFAC H 0.128 37.662 0.237 13.635 0.135 3.586 0.010 1.035 0.018 =
 0.0 0.0 0.000 0.310 1.008

UNIT 64 36.1842 2 16 -4.18416

LIST 6 ! automatically inserted. Change 6 to 4 for CHECKCIF!!

L.S. 50

MORE 3

FMAP -2

PLAN 20

ACTA

RIGU

rem SIMU 0.001 0.001 12 C11 C12 C13 C14

FLAT_* 0.01 C8 C7 C6 C5 N3 C1 C2 C3 C4 C11 C12 C13 C14

EQIV \$1 -x, -y, -z

EQIV \$2 x, -y, z

EQIV \$3 -x, y, -z

FLAT 0.01 C8 C7 C8_\$3 C12

WGHT 0.200000

FVAR 8.86705 1.28778 0.86276 1.08372 1.28877

CU1 3 0.000000 0.000000 0.000000 10.25000 0.03898 0.02137 =
 0.03562 0.00000 0.01578 0.00000

PART 2 21

CL1 2 0.164947 -0.208086 -0.241916 21.00000 0.08997 0.03406 =
 0.10528 0.00985 0.04029 0.01375

PART 0

PART 3 31

CL2 2 0.080406 -0.307409 -0.123241 31.00000 0.07987 0.01448 =
 0.08794 -0.00477 0.01754 0.00460

PART 0

PART 4 41

CL3 2 0.275618 -0.120718 -0.545144 41.00000 0.07692 0.04461 =
 0.09756 -0.01428 0.02937 -0.00820

PART 0

PART 5 51
 CL4 2 0.412261 -0.060170 -0.766961 51.00000 0.06783 0.05794 =
 0.09891 -0.00861 0.03383 0.00916
 PART 0
 N1 4 0.000000 -0.076238 0.000000 10.50000 0.03315 0.01861 =
 0.05026 0.00000 0.02502 0.00000
 N2 4 0.097832 0.000000 -0.212586 10.50000 0.01581 0.02523 =
 0.04434 0.00000 0.00632 0.00000
 N3 4 0.120704 -0.089613 -0.247100 11.00000 0.03177 0.01230 =
 0.02726 -0.00753 0.00271 -0.00327
 C1 1 0.136735 -0.042273 -0.285925 11.00000 0.02175 0.02354 =
 0.03062 -0.00640 -0.00350 -0.00821
 C2 1 0.209833 -0.025635 -0.415502 11.00000 0.04284 0.02127 =
 0.03660 -0.00898 0.01693 -0.01698
 C3 1 0.269223 -0.060111 -0.541543 11.00000 0.02586 0.03958 =
 0.03519 -0.00584 0.00492 -0.00457
 PART 14 -41
 AFIX 43 1.0800
 H3 5 0.266309 -0.101632 -0.562457 -41.00000 -1.20000
 AFIX 0
 PART 0
 C4 1 0.336324 -0.025322 -0.637703 11.00000 0.04104 0.01325 =
 0.01792 -0.00254 0.00140 -0.00170
 PART 15 -51
 AFIX 43 1.0800
 H4 5 0.386881 -0.044465 -0.710158 -51.00000 -1.20000
 AFIX 0
 PART 0
 C5 1 0.057246 -0.103836 -0.092826 11.00000 0.03347 0.02059 =
 0.04174 0.00019 0.00199 -0.00607
 C6 1 0.035037 -0.157877 -0.067205 11.00000 0.03965 0.02228 =
 0.01371 0.00959 -0.01709 -0.00911
 C7 1 0.073936 -0.205229 -0.115798 11.00000 0.08046 0.02751 =
 0.04450 0.02379 0.02682 0.01182
 PART 12 -21
 AFIX 43 1.0800
 H7 5 0.130949 -0.204663 -0.196178 -21.00000 -1.20000
 AFIX 0
 PART 0
 C8 1 0.037589 -0.253534 -0.058275 11.00000 0.07038 0.02341 =
 0.05254 0.01265 0.02923 0.01874
 PART 13 -31
 AFIX 43 1.0800
 H8 5 0.066232 -0.289462 -0.101810 -31.00000 -1.20000
 PART 0
 AFIX 0
 HKLF 4

REM CuPcCl16_solutionC2/matoms_correct_6
 REM wR2 = 0.6640, GooF = S = 3.105, Restrained GooF = 3.047 for all data
 REM R1 = 0.2785 for 1505 Fo > 4sig(Fo) and 0.2948 for all 1796 data
 REM 137 parameters refined using 109 restraints

END

WGHT 0.2000 0.0000

REM Highest difference peak 0.394, deepest hole -0.411, 1-sigma level 0.102
 Q1 1 0.1700 -0.2057 -0.0426 11.00000 0.05 -0.41
 Q2 1 0.3530 -0.0785 -0.6525 11.00000 0.05 0.39
 Q3 1 0.0042 0.0000 0.2780 10.50000 0.05 -0.38
 Q4 1 0.3522 0.0000 -0.6483 10.50000 0.05 0.37
 Q5 1 0.4121 -0.0618 -0.6780 11.00000 0.05 -0.37
 Q6 1 0.2786 -0.1213 -0.2955 11.00000 0.05 -0.35

Q7	1	0.2688	-0.0663	-0.7964	11.00000	0.05	-0.35
Q8	1	0.0488	-0.1027	0.1737	11.00000	0.05	-0.34
Q9	1	0.0971	-0.3098	-0.3483	11.00000	0.05	-0.33
Q10	1	0.0681	0.0294	0.0331	11.00000	0.05	0.32
Q11	1	0.1310	-0.0261	-0.1384	11.00000	0.05	-0.32
Q12	1	0.0000	-0.1693	0.0000	10.50000	0.05	0.31
Q13	1	0.1611	-0.2181	-0.4725	11.00000	0.05	-0.31
Q14	1	0.2720	-0.1125	-0.0985	11.00000	0.05	-0.30
Q15	1	0.4004	-0.0708	-1.0977	11.00000	0.05	-0.29
Q16	1	0.2707	-0.0724	-0.5686	11.00000	0.05	-0.29
Q17	1	0.0717	0.0000	0.1645	10.50000	0.05	0.29
Q18	1	0.3668	-0.0089	-0.7222	11.00000	0.05	0.29
Q19	1	-0.0475	-0.0486	0.1147	11.00000	0.05	0.29
Q20	1	0.4149	-0.0601	-0.4576	11.00000	0.05	-0.28

;

_shelx_res_checksum 80433

_shelx_hkl_file

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16	26	1	375	11
16	-6	2	262	8
16	-4	2	1483	44
16	6	2	144	4
16	8	2	480	14
16	16	2	191	6
16	14	2	2128	64
16	-10	3	254	8
16	-12	-3	399	12
16	-4	-3	459	14
16	12	-3	36	1
16	-16	-2	28	1
16	-10	-2	360	11
16	-8	-2	251	8
16	-4	-2	2704	81

16	-6	-2	273	8
16	-2	-2	1708	51
16	6	-2	294	9
16	8	-2	92	3
16	16	-2	113	3
16	-18	-1	323	10
16	-14	-1	213	6
16	-6	-1	262	8
16	-4	-1	820	25
16	-2	-1	2867	86
16	4	-1	779	23
16	6	-1	255	8
16	12	-1	179	5
16	14	-1	138	4
16	16	-1	156	5
16	18	-1	200	6
16	20	-1	209	6
16	-20	0	581	17
16	-18	0	557	17
16	-2	0	1033	31
16	0	0	3014	90
16	20	0	380	11
16	10	1	136	4
16	-2	1	2175	65
16	0	1	437	13
16	-8	1	141	4
16	-4	1	19	1
16	-10	1	30	1
16	4	2	132	4
16	-3	2	197	6
17	13	-4	335	10
17	-11	-3	43	1
17	-13	-3	335	10
17	-19	-3	193	6
17	21	-3	9	0
17	19	-3	245	7
17	13	-3	470	14
17	11	-3	257	8
17	7	-3	738	22
17	3	-3	546	16
17	-27	-2	364	11
17	-21	-2	42	1
17	-7	-2	3746	112
17	-11	-2	2017	61
17	9	-2	392	12
17	7	-2	2019	61
17	5	-2	734	22
17	3	-2	607	18
17	11	-2	631	19
17	27	-2	851	26
17	-15	-1	1565	47
17	-17	-1	646	19
17	-9	-1	1657	50
17	-11	-1	286	9
17	-5	-1	1337	40
17	1	-1	4739	142
17	5	-1	1014	30
17	9	-1	1220	37
17	15	-1	1084	33
17	11	-1	392	12
17	-21	0	490	15
17	-15	0	411	12
17	-11	0	457	14
17	-7	0	2139	64
17	-5	0	1031	31
17	3	0	822	25
17	1	0	1231	37
17	7	0	1557	47
17	5	0	1383	41

17	11	0	755	23
17	13	0	703	21
17	17	0	539	16
17	15	0	849	25
17	21	0	1053	32
17	19	0	279	8
17	25	0	208	6
17	29	0	195	6
17	-13	1	545	16
17	-7	1	783	23
17	-3	1	807	24
17	-5	1	453	14
17	1	1	4981	149
17	3	1	1761	53
17	5	1	1042	31
17	13	1	742	22
17	11	1	213	6
17	-9	2	432	13
17	11	2	83	2
17	13	2	372	11
17	-9	-3	223	7
17	-7	-3	1528	46
17	-5	-3	269	8
17	-3	-3	888	27
17	-1	-3	355	11
17	1	-3	417	13
17	5	-3	122	4
17	9	-3	187	6
17	-17	-2	559	17
17	-15	-2	274	8
17	-13	-2	195	6
17	-9	-2	841	25
17	-5	-2	1378	41
17	-3	-2	742	22
17	-1	-2	180	5
17	1	-2	93	3
17	13	-2	109	3
17	15	-2	89	3
17	17	-2	366	11
17	-19	-1	286	9
17	-13	-1	351	11
17	-7	-1	319	10
17	-1	-1	5591	168
17	-3	-1	216	6
17	7	-1	286	9
17	13	-1	203	6
17	3	-1	70	2
17	17	-1	231	7
17	19	-1	149	4
17	-19	0	286	9
17	-9	0	1313	39
17	-3	0	766	23
17	-1	0	1156	35
17	9	0	584	18
17	-17	0	1077	32
17	-13	0	672	20
17	17	1	45	1
17	-11	1	171	5
17	-1	1	2002	60
17	7	2	179	5
17	9	2	124	4
17	1	2	230	7
17	3	2	79	2
17	5	2	37	1
17	8	2	55	2
17	-4	2	115	3
17	-1	2	148	4
17	-5	2	37	1
18	10	-4	146	4

18	2	-3	290	9
18	-6	-3	582	17
18	-12	-3	549	16
18	12	-3	655	20
18	10	-3	278	8
18	-16	-2	1147	34
18	-6	-2	611	18
18	4	-2	351	11
18	2	-2	4442	133
18	0	-2	2166	65
18	16	-2	614	18
18	10	-2	2296	69
18	-31	-1	101	3
18	-14	-1	1311	39
18	-12	-1	821	25
18	2	-1	1330	40
18	0	-1	648	19
18	4	-1	1454	44
18	12	-1	1146	34
18	14	-1	716	21
18	18	-1	298	9
18	28	-1	382	11
18	-22	0	55	2
18	-10	0	1459	44
18	-8	0	2292	69
18	-4	0	485	15
18	-6	0	874	26
18	0	0	1269	38
18	4	0	519	16
18	2	0	639	19
18	8	0	1364	41
18	6	0	783	24
18	10	0	1771	53
18	16	0	818	25
18	22	0	438	13
18	20	0	142	4
18	28	0	220	7
18	-10	1	510	15
18	-12	1	286	9
18	-6	1	806	24
18	6	1	242	7
18	4	1	356	11
18	12	1	437	13
18	10	1	1537	46
18	22	1	618	19
18	-2	2	1103	33
18	2	2	881	26
18	-4	-3	575	17
18	-2	-3	235	7
18	0	-3	126	4
18	4	-3	393	12
18	6	-3	229	7
18	-14	-2	307	9
18	-12	-2	355	11
18	-10	-2	3612	108
18	-8	-2	170	5
18	-4	-2	559	17
18	-2	-2	6701	201
18	6	-2	424	13
18	8	-2	219	7
18	12	-2	110	3
18	-18	-1	482	14
18	-10	-1	85	3
18	-4	-1	1761	53
18	-16	-1	61	2
18	-8	-1	322	10
18	-6	-1	123	4
18	-2	-1	1235	37
18	6	-1	329	10

18	8	-1	266	8
18	10	-1	101	3
18	-16	0	544	16
18	-12	0	595	18
18	-2	0	656	20
18	12	0	948	28
18	14	0	457	14
18	18	0	147	4
18	-19	0	43	1
18	-18	0	997	30
18	-14	0	833	25
18	0	1	194	6
18	-4	1	101	3
18	-14	1	24	1
18	-11	1	175	5
18	0	2	130	4
18	8	2	7	0
19	5	-4	109	3
19	1	-4	203	6
19	-13	-3	103	3
19	-15	-3	106	3
19	3	-3	219	7
19	1	-3	167	5
19	-1	-3	237	7
19	-7	-2	1574	47
19	13	-2	115	3
19	11	-2	442	13
19	7	-2	1366	41
19	19	-2	182	5
19	-7	-1	3224	97
19	3	-1	1021	31
19	7	-1	2547	76
19	17	-1	206	6
19	27	-1	384	12
19	-15	0	315	9
19	-17	0	242	7
19	-9	0	390	12
19	-5	0	324	10
19	3	0	434	13
19	1	0	654	20
19	5	0	466	14
19	11	0	339	10
19	9	0	359	11
19	15	0	922	28
19	17	0	1050	31
19	-7	1	819	25
19	5	1	390	12
19	7	1	793	24
19	11	1	1174	35
19	15	1	214	6
19	13	1	236	7
19	21	1	418	13
19	-13	-2	138	4
19	-11	-2	701	21
19	-9	-2	208	6
19	-5	-2	96	3
19	-3	-2	470	14
19	-1	-2	290	9
19	1	-2	394	12
19	3	-2	302	9
19	5	-2	259	8
19	9	-2	185	6
19	-15	-1	184	6
19	-13	-1	49	1
19	-11	-1	308	9
19	-9	-1	153	5
19	-5	-1	236	7
19	-3	-1	999	30
19	5	-1	220	7

19	9	-1	183	6
19	11	-1	202	6
19	13	-1	56	2
19	15	-1	115	3
19	-3	0	252	8
19	-1	0	846	25
19	7	0	379	11
19	13	0	241	7
19	-13	0	170	5
19	-11	0	345	10
19	-7	0	346	10
19	-11	1	411	12
19	-1	1	73	2
19	1	1	59	2
19	1	2	260	8
19	3	2	138	4
19	-3	2	47	1
19	-1	2	222	7
20	-2	-3	266	8
20	10	-3	157	5
20	-16	-2	7	0
20	-18	-2	369	11
20	-8	-2	612	18
20	0	-2	961	29
20	18	-2	261	8
20	-16	-1	540	16
20	-18	-1	350	10
20	-10	-1	356	11
20	0	-1	1578	47
20	2	-1	2556	77
20	10	-1	1230	37
20	16	-1	595	18
20	18	-1	455	14
20	-12	0	679	20
20	-8	0	2005	60
20	-6	0	678	20
20	0	0	499	15
20	2	0	523	16
20	8	0	812	24
20	6	0	304	9
20	12	0	485	15
20	28	0	321	10
20	-10	1	469	14
20	-8	1	425	13
20	8	1	422	13
20	10	1	1505	45
20	10	2	304	9
20	-6	-2	455	14
20	-4	-2	1099	33
20	-2	-2	139	4
20	4	-2	1053	32
20	6	-2	321	10
20	2	-2	76	2
20	8	-2	351	11
20	-12	-1	93	3
20	-6	-1	241	7
20	-4	-1	226	7
20	-2	-1	1970	59
20	4	-1	130	4
20	6	-1	257	8
20	-2	0	342	10
20	4	0	603	18
20	10	0	242	7
20	-14	0	157	5
20	-10	0	237	7
20	-4	0	789	24
20	14	0	157	5
20	-2	1	74	2
20	0	1	32	1

21	-9	-3	159	5
21	5	-3	35	1
21	7	-2	187	6
21	-11	-1	180	5
21	7	-1	605	18
21	-17	0	106	3
21	3	0	435	13
21	7	0	259	8
21	17	0	521	16
21	27	0	347	10
21	1	1	482	14
21	9	1	329	10
21	17	1	500	15
21	-9	-1	122	4
21	-7	-1	573	17
21	-3	-1	95	3
21	-5	-1	46	1
21	1	-1	80	2
21	3	-1	68	2
21	5	-1	78	2
21	9	-1	127	4
21	-1	0	121	4
21	9	0	134	4
21	-9	0	244	7
21	-7	0	374	11
21	-5	0	812	24
21	-3	0	177	5
21	1	0	175	5
21	5	0	168	5
21	-1	1	219	7
21	3	1	58	2
22	-10	-2	109	3
22	2	-2	11	0
22	0	-2	181	5
22	-2	-2	161	5
22	-12	-1	112	3
22	0	-1	1110	33
22	4	-1	208	6
22	-10	0	390	12
22	0	0	1243	37
22	10	0	199	6
22	18	0	216	6
22	16	0	389	12
22	-12	1	128	4
22	12	1	260	8
23	-1	-2	82	2
23	7	1	102	3
24	0	0	82	2
24	4	0	232	7
24	0	1	362	11

```

;
_shelx_hkl_checksum          93252

data_CuPcCl16_ED_final
_database_code_depnum_ccdc_archive 'CCDC 2080221'
loop_
_audit_author_name
_audit_author_address
'Tim Gruene'
;Centre of Xray Structure Analysis, University of Vienna
Austria
;
_audit_update_record
;
2021-04-26 deposited with the CCDC. 2021-05-17 downloaded from the CCDC.
;

# start Validation Reply Form
_vrf_RADNT01_CuPcCl16_ED_final

```

```

;
PROBLEM: The radiation type should contain one of the following
RESPONSE: The structure was determined using electron diffraction.
;
_vrf_RINTA01_CuPcCl16_ED_final
;
PROBLEM: The value of Rint is greater than 0.25
RESPONSE: Data processing of electron diffraction data still has room for
improvement. E.g., dynamic scattering effects were not taken into account.
;
_vrf_PLAT020_CuPcCl16_ED_final
;
PROBLEM: The Value of Rint is Greater Than 0.12 ..... 0.306 Report
RESPONSE: Data processing of electron diffraction data still has room for
improvement. E.g., dynamic scattering effects were not taken into account.
;
_vrf_PLAT029_CuPcCl16_ED_final
;
PROBLEM: _diffrn_measured_fraction_theta_full value Low . 0.754 Why?
RESPONSE: Crystals were thin platelets. Several crystals were merged, but
because of the preferred orientation, and shading by the sample holder, data are
systemtatically incomplete and radiation damage limited the resolution.
;
_vrf_PLAT082_CuPcCl16_ED_final
;
PROBLEM: High R1 Value ..... 0.27 Report
RESPONSE: The model was refined assuming kinematic theory. Dynamic effects were
not taken into account. We did attempt to refine dynamically with PETS 2.0, but
due to the high mosaicity of the crystals, this did not succeed.
;
_vrf_PLAT084_CuPcCl16_ED_final
;
PROBLEM: High wR2 Value (i.e. > 0.25) ..... 0.66 Report
RESPONSE: The model was refined assuming kinematic theory. Dynamic effects were
not taken into account. We did attempt to refine dynamically with PETS 2.0, but
due to the high mosaicity of the crystals, this did not succeed.
;
_vrf_PLAT184_CuPcCl16_ED_final
;
PROBLEM: Missing _cell_measurement_theta_min Value ..... Please Do !
RESPONSE: The cell was determined with EDT. It uses strong reflections, but the
spread in 2theta is not reported.
;
_vrf_PLAT185_CuPcCl16_ED_final
;
PROBLEM: Missing _cell_measurement_theta_max Value ..... Please Do !
RESPONSE: The cell was determined with EDT. It uses strong reflections, but the
spread in 2theta is not reported.
;
_vrf_PLAT341_CuPcCl16_ED_final
;
PROBLEM: Low Bond Precision on C-C Bonds ..... 0.0169 Ang.
RESPONSE: This is probably due to the systematically incomplete data, see
PLAT029_CuPcCl16_ED_final
;
# end Validation Reply Form

```

```

_audit_creation_method          SHELXL-2018/3
_shelx_SHELXL_version_number    2018/3
_chemical_name_systematic       'cupper perchlorophthalocyanine'
_chemical_name_common           'Pigment Green 7'
_chemical_melting_point         ?
_chemical_formula_moiety         'C32 N8 Cl16 Cu'
_chemical_formula_sum            'C32 Cl16 Cu N8'
_chemical_formula_weight        1127.15

```

```

loop_
_atom_type_symbol
_atom_type_description

```



```

_atom_type_scatter_dispersion_real
_atom_type_scatter_dispersion_imag
_atom_type_scatter_source
C C 0.0000 0.0000 'International Tables Vol C Tables 4.3.1.1 and 4.3.2.2'
H H 0.0000 0.0000 'International Tables Vol C Tables 4.3.1.1 and 4.3.2.2'
B B 0.0000 0.0000 'International Tables Vol C Tables 4.3.1.1 and 4.3.2.2'
N N 0.0000 0.0000 'International Tables Vol C Tables 4.3.1.1 and 4.3.2.2'
F F 0.0000 0.0000 'International Tables Vol C Tables 4.3.1.1 and 4.3.2.2'
S S 0.0000 0.0000 'International Tables Vol C Tables 4.3.1.1 and 4.3.2.2'

```

```

_space_group_crystal_system      monoclinic
_space_group_IT_number           12
_space_group_name_H-M_alt        'C 2/m'
_space_group_name_Hall           '-C 2y'

```

```
_shelx_space_group_comment
```

```
;
The symmetry employed for this shelxl refinement is uniquely defined
by the following loop, which should always be used as a source of
symmetry information in preference to the above space-group names.
They are only intended as comments.
;
```

```
loop_
```

```
_space_group_symop_operation_xyz
'x, y, z'
'-x, y, -z'
'x+1/2, y+1/2, z'
'-x+1/2, y+1/2, -z'
'-x, -y, -z'
'x, -y, z'
'-x+1/2, -y+1/2, -z'
'x+1/2, -y+1/2, z'

```

```

_cell_length_a      17.685(4)
_cell_length_b      25.918(5)
_cell_length_c       3.8330(8)
_cell_angle_alpha    90
_cell_angle_beta     95.05(3)
_cell_angle_gamma    90
_cell_volume         1750.1(6)
_cell_formula_units_Z 2
_cell_measurement_temperature 293(2)
_cell_measurement_reflns_used 253
_cell_measurement_theta_min ?
_cell_measurement_theta_max ?

```

```

_exptl_crystal_description 'square platelets'
_exptl_crystal_colour      blue
_exptl_crystal_density_meas ?
_exptl_crystal_density_method ?
_exptl_crystal_density_diffrn 2.139
_exptl_crystal_F_000      363
_exptl_transmission_factor_min ?
_exptl_transmission_factor_max ?
_exptl_crystal_size_max    0.0005
_exptl_crystal_size_mid    0.0005
_exptl_crystal_size_min    0.0001
_exptl_absorpt_coefficient_mu 0.000
_shelx_estimated_absorpt_T_min ?
_shelx_estimated_absorpt_T_max ?
_exptl_absorpt_correction_type empirical
_exptl_absorpt_correction_T_min ?
_exptl_absorpt_correction_T_max ?
_exptl_absorpt_process_details ?
_exptl_absorpt_special_details 'electron diffraction, unknown absorption'
_diffraction_ambient_temperature 293(2)
_diffraction_radiation_wavelength 0.02508
_diffraction_radiation_probe electron

```

```

_diffrn_radiation_type      'monochromatic beam'
_diffrn_source              'transmission electron microscope'
_diffrn_source_voltage      200
_diffrn_detector            'CCD area detector'
_diffrn_detector_type       'Gatan MSC 2k'
_diffrn_measurement_device_type 'transmission electron microscope'
_diffrn_measurement_method  ?
_diffrn_detector_area_resol_mean 71.428
_diffrn_reflns_number       5758
_diffrn_reflns_av_unetI/netI 0.2132
_diffrn_reflns_av_R_equivalents 0.3061
_diffrn_reflns_limit_h_min  -24
_diffrn_reflns_limit_h_max   24
_diffrn_reflns_limit_k_min  -37
_diffrn_reflns_limit_k_max   42
_diffrn_reflns_limit_l_min  -5
_diffrn_reflns_limit_l_max   5
_diffrn_reflns_theta_min     0.049
_diffrn_reflns_theta_max     1.219
_diffrn_reflns_theta_full    0.862
_diffrn_measured_fraction_theta_max 0.394
_diffrn_measured_fraction_theta_full 0.754
_diffrn_reflns_Laue_measured_fraction_max 0.394
_diffrn_reflns_Laue_measured_fraction_full 0.754
_diffrn_reflns_point_group_measured_fraction_max 0.394
_diffrn_reflns_point_group_measured_fraction_full 0.754
_reflns_number_total         1796
_reflns_number_gt            1505
_reflns_threshold_expression 'I > 2\s(I)'
_reflns_Friedel_coverage     0.000
_reflns_Friedel_fraction_max .
_reflns_Friedel_fraction_full .

```

```
_reflns_special_details
```

```
;
Reflections were merged by SHELXL according to the crystal
class for the calculation of statistics and refinement.
```

```
_reflns_Friedel_fraction is defined as the number of unique
Friedel pairs measured divided by the number that would be
possible theoretically, ignoring centric projections and
systematic absences.
```

```
;
```

```

_computing_data_collection      ?
_computing_cell_refinement      ?
_computing_data_reduction       ?
_computing_structure_solution   ?
_computing_structure_refinement 'SHELXL-2018/3 (Sheldrick, 2018)'
_computing_molecular_graphics   'SHELXLE PLATON'
_computing_publication_material ?
_refine_special_details

```

```
; electron scattering factors derived from Peng (1999)'
```

```

;
_refine_ls_structure_factor_coef Fsqd
_refine_ls_matrix_type          full
_refine_ls_weighting_scheme     calc
_refine_ls_weighting_details
'w=1/[\s^2^(Fo^2^)+(0.2000P)^2^] where P=(Fo^2^+2Fc^2^)/3'
_atom_sites_solution_primary    ?
_atom_sites_solution_secondary  ?
_atom_sites_solution_hydrogens  .
_refine_ls_hydrogen_treatment   undef
_refine_ls_extinction_method     none
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_atom_site_occupancy
_atom_site_site_symmetry_order
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Cu1 Cu 0.000000 0.000000 0.000000 0.0382(17) Uani 1 4 d S T P . . .
C11 Cl 0.1641(4) -0.2061(3) -0.243(2) 0.0545(19) Uani 1 1 d
C12 Cl 0.0824(5) -0.3079(3) -0.112(3) 0.064(2) Uani 1 1 d
C13 Cl 0.2741(4) -0.1202(2) -0.550(2) 0.0504(19) Uani 1 1 d
C14 Cl 0.4141(4) -0.0603(3) -0.774(2) 0.0502(19) Uani 1 1 d
N1 N 0.000000 -0.0741(5) 0.000000 0.042(4) Uani 1 2 d S T P . . .
N2 N 0.0973(6) 0.000000 -0.209(4) 0.031(3) Uani 1 2 d S T P . . .
N3 N 0.1200(6) -0.0914(4) -0.254(3) 0.034(2) Uani 1 1 d
C1 C 0.1408(8) -0.0444(4) -0.298(4) 0.040(3) Uani 1 1 d
C2 C 0.2102(8) -0.0281(6) -0.428(4) 0.049(3) Uani 1 1 d
C3 C 0.2739(5) -0.0544(4) -0.553(3) 0.027(2) Uani 1 1 d
C4 C 0.3345(6) -0.0277(4) -0.640(3) 0.027(2) Uani 1 1 d
C5 C 0.0560(5) -0.1064(3) -0.101(3) 0.028(2) Uani 1 1 d
C6 C 0.0332(6) -0.1610(4) -0.061(3) 0.026(2) Uani 1 1 d
C7 C 0.0767(9) -0.2094(4) -0.117(4) 0.048(4) Uani 1 1 d
C8 C 0.0354(9) -0.2506(4) -0.055(5) 0.060(5) Uani 1 1 d

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Cu1 0.044(3) 0.023(2) 0.049(4) 0.000 0.017(3) 0.000
C11 0.058(3) 0.035(3) 0.072(5) -0.011(3) 0.017(3) 0.004(2)
C12 0.070(4) 0.034(3) 0.089(7) -0.003(3) 0.013(4) 0.007(3)
C13 0.054(3) 0.028(2) 0.072(5) -0.010(2) 0.018(3) 0.003(2)
C14 0.053(3) 0.037(2) 0.063(5) 0.003(3) 0.021(3) 0.007(2)
N1 0.039(5) 0.019(4) 0.069(11) 0.000 0.012(6) 0.000
N2 0.024(4) 0.033(5) 0.037(8) 0.000 0.005(4) 0.000
N3 0.038(4) 0.028(3) 0.036(6) 0.001(3) 0.005(4) 0.002(3)
C1 0.057(5) 0.025(3) 0.040(7) -0.003(4) 0.015(5) 0.001(4)
C2 0.044(5) 0.042(6) 0.064(9) 0.009(6) 0.019(5) 0.001(4)
C3 0.042(4) 0.025(3) 0.012(5) -0.011(3) -0.005(4) 0.007(3)
C4 0.042(4) 0.023(3) 0.016(5) -0.005(3) -0.001(4) -0.002(3)
C5 0.033(4) 0.010(2) 0.039(6) 0.010(3) -0.001(4) 0.003(2)
C6 0.044(4) 0.021(3) 0.014(6) 0.007(3) -0.003(4) -0.007(3)
C7 0.072(7) 0.022(4) 0.055(9) 0.006(4) 0.032(7) -0.005(4)
C8 0.074(8) 0.020(4) 0.093(13) 0.014(5) 0.051(10) 0.004(4)

_geom_special_details

;

All esds (except the esd in the dihedral angle between two l.s. planes)

are estimated using the full covariance matrix. The cell esds are taken into account individually in the estimation of esds in distances, angles and torsion angles; correlations between esds in cell parameters are only used when they are defined by crystal symmetry. An approximate (isotropic) treatment of cell esds is used for estimating esds involving l.s. planes.

;

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Cu1 N1 1.921(13) . ?
Cu1 N2 1.961(10) 5 ?
Cu1 N2 1.961(10) . ?
C11 C7 1.662(15) . ?
C12 C8 1.724(14) . ?
C13 C3 1.704(12) . ?
C14 C4 1.757(11) . ?
N1 C5 1.377(11) 2 ?
N1 C5 1.377(11) . ?
N2 C1 1.442(12) 6 ?
N2 C1 1.442(12) . ?
N3 C1 1.290(15) . ?
N3 C5 1.377(13) . ?
C1 C2 1.427(16) . ?
C2 C3 1.436(15) . ?
C2 C2 1.45(3) 6 ?
C3 C4 1.344(14) . ?
C4 C4 1.434(19) 6 ?
C5 C6 1.481(13) . ?
C6 C6 1.30(2) 2 ?
C6 C7 1.498(17) . ?
C7 C8 1.325(15) . ?
C8 C8 1.36(3) 2 ?
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  _geom_angle_site_symmetry_3
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N1 Cu1 N2 90.0 5 5 ?
N1 Cu1 N2 90.0 . 5 ?
N1 Cu1 N2 90.0 5 . ?
N1 Cu1 N2 90.0 . . ?
N2 Cu1 N2 180.0 5 . ?
C5 N1 C5 105.1(11) 2 . ?
C5 N1 Cu1 127.4(5) 2 . ?
C5 N1 Cu1 127.4(5) . . ?
C1 N2 C1 105.8(11) 6 . ?
C1 N2 Cu1 127.1(6) 6 . ?
C1 N2 Cu1 127.1(6) . . ?
C1 N3 C5 125.4(9) . . ?
N3 C1 C2 126.2(11) . . ?
N3 C1 N2 123.9(10) . . ?
C2 C1 N2 109.8(10) . . ?
C1 C2 C3 134.3(13) . . ?
C1 C2 C2 107.3(8) . 6 ?
C3 C2 C2 118.4(7) . 6 ?
C4 C3 C2 120.3(10) . . ?
C4 C3 C13 121.1(7) . . ?
C2 C3 C13 118.4(9) . . ?
C3 C4 C4 121.1(6) . 6 ?
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C3 C4 C14 120.1(8) . . ?
 C4 C4 C14 118.8(4) 6 . ?
 N3 C5 N1 125.9(8) . . ?
 N3 C5 C6 123.6(9) . . ?
 N1 C5 C6 110.1(8) . . ?
 C6 C6 C5 107.4(5) 2 . ?
 C6 C6 C7 122.8(6) 2 . ?
 C5 C6 C7 129.7(9) . . ?
 C8 C7 C6 110.6(11) . . ?
 C8 C7 C11 129.4(10) . . ?
 C6 C7 C11 120.0(8) . . ?
 C7 C8 C8 126.4(8) . 2 ?
 C7 C8 C12 113.1(10) . . ?
 C8 C8 C12 120.5(5) 2 . ?

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 _refine_diff_density_rms 0.095

_shelx_res_file

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 created by SHELXL-2018/3 at 15:35:54 on 23-Apr-2021
 CELL 0.02508 17.6850 25.9180 3.8330 90.000 95.050 90.000
 ZERR 2 0.00354 0.00518 0.00077 0.0000 0.0300 0.0000

LATT 7
 SYMM - X , Y , - Z
 SFAC C 0.151 66.500 0.766 27.556 1.005 10.571 0.509 2.650 0.078 =
 0.0 0.0 0.000 0.770 12.011
 SFAC Cl 0.907 1.535 1.978 8.831 1.556 22.789 0.329 51.693 0.087 =
 0.0 0.0 0.000 1.020 35.450
 SFAC Cu 0.506 110.498 1.215 44.358 1.370 14.087 2.025 3.074 0.485 =
 0.0 0.0 0.000 1.400 63.546
 SFAC N 0.145 46.206 0.529 21.787 0.934 8.888 0.537 2.145 0.066 =
 0.0 0.0 0.000 0.710 14.007
 SFAC H 0.128 37.662 0.237 13.635 0.135 3.586 0.010 1.035 0.018 =
 0.0 0.0 0.000 0.310 1.008

UNIT 64 32 2 16 0

LIST 4 ! automatically inserted. Change 6 to 4 for CHECKCIF!!

L.S. 50

MORE 3

FMAP -2

PLAN 20

ACTA

RIGU

WGHT 0.200000

FVAR 9.24207

CU1	3	0.000000	0.000000	0.000000	10.25000	0.04450	0.02341	=
		0.04900	0.00000	0.01673	0.00000			
CL1	2	0.164121	-0.206087	-0.242600	11.00000	0.05823	0.03495	=
		0.07241	-0.01114	0.01673	0.00365			
CL2	2	0.082386	-0.307869	-0.112055	11.00000	0.07037	0.03430	=
		0.08899	-0.00347	0.01273	0.00666			
CL3	2	0.274114	-0.120169	-0.549570	11.00000	0.05379	0.02819	=
		0.07153	-0.00967	0.01813	0.00254			
CL4	2	0.414136	-0.060308	-0.773894	11.00000	0.05331	0.03683	=
		0.06322	0.00283	0.02095	0.00651			
N1	4	0.000000	-0.074113	0.000000	10.50000	0.03918	0.01903	=
		0.06921	0.00000	0.01201	0.00000			
N2	4	0.097331	0.000000	-0.208635	10.50000	0.02429	0.03304	=
		0.03731	0.00000	0.00466	0.00000			
N3	4	0.120007	-0.091434	-0.253833	11.00000	0.03782	0.02756	=
		0.03560	0.00104	0.00550	0.00159			
C1	1	0.140825	-0.044381	-0.298486	11.00000	0.05682	0.02479	=
		0.03994	-0.00318	0.01514	0.00124			
C2	1	0.210197	-0.028053	-0.427590	11.00000	0.04403	0.04237	=
		0.06404	0.00910	0.01868	0.00108			

C3	1	0.273907	-0.054422	-0.552600	11.00000	0.04227	0.02505 =
		0.01159	-0.01056	-0.00549	0.00669		
C4	1	0.334522	-0.027673	-0.639953	11.00000	0.04181	0.02268 =
		0.01640	-0.00504	-0.00071	-0.00195		
C5	1	0.055964	-0.106424	-0.100667	11.00000	0.03319	0.00977 =
		0.03882	0.00981	-0.00124	0.00270		
C6	1	0.033205	-0.160979	-0.061364	11.00000	0.04402	0.02067 =
		0.01357	0.00702	-0.00314	-0.00708		
C7	1	0.076667	-0.209437	-0.117029	11.00000	0.07155	0.02160 =
		0.05535	0.00639	0.03229	-0.00513		
C8	1	0.035446	-0.250604	-0.055400	11.00000	0.07439	0.01987 =
		0.09318	0.01416	0.05124	0.00412		

HKLF 4

REM CuPcCl16_solutionC2/matoms_correct_6
 REM wR2 = 0.6560, GooF = S = 3.045, Restrained GooF = 2.975 for all data
 REM R1 = 0.2652 for 1505 Fo > 4sig(Fo) and 0.2817 for all 1796 data
 REM 133 parameters refined using 108 restraints

END

WGHT 0.2000 0.0000

REM Highest difference peak 0.354, deepest hole -0.459, 1-sigma level 0.095

Q1	1	0.0048	0.0000	0.2676	10.50000	0.05	-0.46
Q2	1	0.3530	0.0000	-0.6811	10.50000	0.05	0.35
Q3	1	0.2712	-0.1254	-0.3335	11.00000	0.05	-0.34
Q4	1	0.1124	-0.3192	-0.2839	11.00000	0.05	-0.30
Q5	1	0.1615	-0.2078	-0.0530	11.00000	0.05	-0.29
Q6	1	0.3241	-0.0413	-0.4611	11.00000	0.05	-0.29
Q7	1	0.5000	-0.0500	-0.5000	10.50000	0.05	0.28
Q8	1	0.2708	-0.1094	-0.0926	11.00000	0.05	-0.28
Q9	1	0.0000	0.0071	-0.5000	10.50000	0.05	-0.28
Q10	1	0.1994	0.0000	-0.4326	10.50000	0.05	0.27
Q11	1	0.1259	-0.2673	-0.2350	11.00000	0.05	0.27
Q12	1	0.2702	-0.0672	-0.8119	11.00000	0.05	-0.27
Q13	1	0.2796	-0.1129	-0.7669	11.00000	0.05	-0.26
Q14	1	0.2697	-0.1129	-0.8499	11.00000	0.05	-0.26
Q15	1	0.2768	0.0000	-0.5968	10.50000	0.05	-0.26
Q16	1	0.1983	-0.0271	-0.7645	11.00000	0.05	-0.26
Q17	1	0.1583	-0.2104	-0.5168	11.00000	0.05	-0.25
Q18	1	0.1519	-0.1987	-0.1844	11.00000	0.05	-0.25
Q19	1	0.0612	-0.3393	-0.2711	11.00000	0.05	-0.25
Q20	1	0.2266	-0.0819	-0.3101	11.00000	0.05	0.25

;
 _shelx_res_checksum 19534

_shelx_hkl_file

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Peak width anisotropy described by by 4th order spherical harmonics.
Background-subtracted R values: Rp = 12.097, Rwp = 12.965, Rexp = 6.235 .
Since the actual mean composition of the sample is Cu C32 N8 H1.2 Cl14.8,
all Cl atoms have an occupancy of 0.925 .

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N2 N 0 0.10152(22) 0 -0.1985(21) 1.88(15) 0.02382
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Cu1 N2 C1 124.8(2)

start Validation Reply Form

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PROBLEM: Check Calcd Resid. Dens. 0.19A From Cl3 -17.39 eA-3
RESPONSE: powder data, nanocrystalline sample

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RESPONSE: powder data, nanocrystalline sample

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PROBLEM: Repd & Actual _reflns_number_gt Values Differ by 1000516 Check
RESPONSE: Powder data. _reflns_number_gt is not a sensible value.

_vrf_PLAT971_CuPcCl16_from_Rietveld

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RESPONSE: powder data, nanocrystalline sample

_vrf_PLAT920_CuPcCl16_from_Rietveld

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PROBLEM: Theta(Max) in CIF and FCF Differ by 0.19 Degree
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end Validation Reply Form

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5.91000	12416.00000	11995.71064	0.00008
5.92000	12421.00000	12233.75940	0.00008
5.93000	12822.00000	12487.65363	0.00008
5.94000	13222.00000	12757.31688	0.00008
5.95000	13371.00000	13041.95950	0.00007
5.96000	13814.00000	13339.87506	0.00007
5.97000	13987.00000	13648.23981	0.00007
5.98000	14338.00000	13962.93301	0.00007
5.99000	14355.00000	14278.39814	0.00007
6.00000	14700.00000	14587.56304	0.00007
6.01000	14822.00000	14881.83292	0.00007
6.02000	15039.00000	15151.17278	0.00007
6.03000	15327.00000	15384.30041	0.00007

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6.05000	15485.00000	15692.49140	0.00006
6.06000	15188.00000	15742.30379	0.00007
6.07000	15255.00000	15707.07497	0.00007
6.08000	15248.00000	15577.99209	0.00007
6.09000	14772.00000	15350.39549	0.00007
6.10000	14289.00000	15025.35592	0.00007
6.11000	13938.00000	14610.64440	0.00007
6.12000	13677.00000	14120.52666	0.00007
6.13000	13001.00000	13574.19505	0.00008
6.14000	12377.00000	12993.25665	0.00008
6.15000	11791.00000	12399.09586	0.00008
6.16000	11185.00000	11810.84251	0.00009
6.17000	10937.00000	11244.24353	0.00009
6.18000	10314.00000	10711.32318	0.00010
6.19000	10032.00000	10220.53834	0.00010
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6.25000	8187.00000	8291.41338	0.00012
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9.61000	5612.00000	5669.82929	0.00018
9.62000	5573.00000	5675.73342	0.00018
9.63000	5661.00000	5681.90583	0.00018
9.64000	5675.00000	5688.24496	0.00018
9.65000	5531.00000	5694.91202	0.00018
9.66000	5621.00000	5701.93666	0.00018
9.67000	5555.00000	5709.33849	0.00018
9.68000	5650.00000	5717.13855	0.00018
9.69000	5771.00000	5725.35937	0.00017
9.70000	5666.00000	5734.02518	0.00018
9.71000	5717.00000	5743.16200	0.00017
9.72000	5758.00000	5752.79781	0.00017
9.73000	5696.00000	5762.96276	0.00018
9.74000	5604.00000	5773.68930	0.00018
9.75000	5672.00000	5785.01244	0.00018
9.76000	5572.00000	5796.96994	0.00018
9.77000	5646.00000	5809.60267	0.00018
9.78000	5716.00000	5822.95496	0.00017
9.79000	5690.00000	5837.07499	0.00018
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9.84000	5716.00000	5921.20813	0.00017
9.85000	5667.00000	5941.22272	0.00018
9.86000	5816.00000	5962.48909	0.00017
9.87000	5842.00000	5985.10020	0.00017
9.88000	5744.00000	6009.15331	0.00017
9.89000	5926.00000	6034.74770	0.00017
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9.91000	5898.00000	6090.94421	0.00017
9.92000	5961.00000	6121.71435	0.00017
9.93000	5972.00000	6154.34569	0.00017
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9.97000	6004.00000	6303.09199	0.00017
9.98000	6017.00000	6344.16637	0.00017
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13.29000	5328.00000	5213.32819	0.00019
13.30000	5267.00000	5224.96842	0.00019
13.31000	5342.00000	5237.56896	0.00019
13.32000	5275.00000	5251.21783	0.00019
13.33000	5413.00000	5266.01374	0.00018
13.34000	5321.00000	5282.06760	0.00019
13.35000	5302.00000	5299.50414	0.00019
13.36000	5435.00000	5318.46408	0.00018
13.37000	5415.00000	5339.10688	0.00018
13.38000	5519.00000	5361.61439	0.00018
13.39000	5444.00000	5386.19591	0.00018
13.40000	5481.00000	5413.09466	0.00018
13.41000	5492.00000	5442.59597	0.00018
13.42000	5555.00000	5475.03670	0.00018
13.43000	5612.00000	5510.81485	0.00018
13.44000	5684.00000	5550.39676	0.00018
13.45000	5663.00000	5594.31831	0.00018
13.46000	5842.00000	5643.17420	0.00017
13.47000	5822.00000	5697.58850	0.00017
13.48000	5892.00000	5758.15851	0.00017
13.49000	5966.00000	5825.36554	0.00017
13.50000	6098.00000	5899.44953	0.00016
13.51000	6024.00000	5980.25106	0.00017
13.52000	6239.00000	6067.03330	0.00016
13.53000	6236.00000	6158.30740	0.00016
13.54000	6392.00000	6251.69421	0.00016
13.55000	6322.00000	6343.86172	0.00016
13.56000	6277.00000	6430.57591	0.00016
13.57000	6447.00000	6506.89249	0.00016
13.58000	6513.00000	6567.49240	0.00015
13.59000	6491.00000	6607.14764	0.00015
13.60000	6394.00000	6621.30386	0.00016
13.61000	6403.00000	6606.63821	0.00016
13.62000	6466.00000	6561.58777	0.00015

13.63000	6416.00000	6486.72388	0.00016
13.64000	6316.00000	6384.87353	0.00016
13.65000	6309.00000	6260.91370	0.00016
13.66000	6240.00000	6121.23670	0.00016
13.67000	6079.00000	5972.98964	0.00016
13.68000	6049.00000	5823.32388	0.00017
13.69000	5946.00000	5678.70067	0.00017
13.70000	5830.00000	5544.37212	0.00017
13.71000	5789.00000	5424.09693	0.00017
13.72000	5650.00000	5320.05999	0.00018
13.73000	5477.00000	5232.97529	0.00018
13.74000	5410.00000	5162.32782	0.00018
13.75000	5461.00000	5106.69671	0.00018
13.76000	5320.00000	5064.10040	0.00019
13.77000	5331.00000	5032.31399	0.00019
13.78000	5284.00000	5009.12499	0.00019
13.79000	5247.00000	4992.51228	0.00019
13.80000	5243.00000	4980.74905	0.00019
13.81000	5119.00000	4972.44086	0.00020
13.82000	5150.00000	4966.51161	0.00019
13.83000	5096.00000	4962.16611	0.00020
13.84000	5064.00000	4958.85381	0.00020
13.85000	5134.00000	4956.19822	0.00019
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13.90000	5043.00000	4946.71836	0.00020
13.91000	4984.00000	4945.09398	0.00020
13.92000	5129.00000	4943.50393	0.00019
13.93000	5004.00000	4941.94110	0.00020
13.94000	4998.00000	4940.40089	0.00020
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13.99000	5022.00000	4932.95126	0.00020
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14.06000	4857.00000	4922.85917	0.00021
14.07000	5056.00000	4921.35157	0.00020
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14.09000	4929.00000	4918.32855	0.00020
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16.96000	6479.00000	6328.70188	0.00015
16.97000	6458.00000	6338.91179	0.00015
16.98000	6573.00000	6333.63263	0.00015
16.99000	6456.00000	6311.85889	0.00015
17.00000	6481.00000	6273.33505	0.00015
17.01000	6481.00000	6218.70976	0.00015
17.02000	6561.00000	6149.56600	0.00015
17.03000	6295.00000	6068.29458	0.00016
17.04000	6270.00000	5977.83165	0.00016
17.05000	6205.00000	5881.32913	0.00016
17.06000	5968.00000	5781.84224	0.00017
17.07000	6094.00000	5682.09792	0.00016

17.08000	5890.00000	5584.36726	0.00017
17.09000	5694.00000	5490.42892	0.00018
17.10000	5653.00000	5401.59480	0.00018
17.11000	5565.00000	5318.76488	0.00018
17.12000	5451.00000	5242.49265	0.00018
17.13000	5389.00000	5173.04918	0.00019
17.14000	5301.00000	5110.48158	0.00019
17.15000	5118.00000	5054.66409	0.00020
17.16000	5041.00000	5005.34809	0.00020
17.17000	5114.00000	4962.22445	0.00020
17.18000	5113.00000	4925.11458	0.00020
17.19000	5048.00000	4893.55007	0.00020
17.20000	5009.00000	4865.33355	0.00020
17.21000	4979.00000	4840.47418	0.00020
17.22000	4962.00000	4819.07172	0.00020
17.23000	4883.00000	4800.71308	0.00020
17.24000	4904.00000	4784.97328	0.00020
17.25000	4867.00000	4771.47206	0.00021
17.26000	4887.00000	4759.88014	0.00020
17.27000	4840.00000	4749.90965	0.00021
17.28000	4727.00000	4741.27284	0.00021
17.29000	4904.00000	4733.75407	0.00020
17.30000	4778.00000	4727.21038	0.00021
17.31000	4801.00000	4721.50386	0.00021
17.32000	4823.00000	4716.52108	0.00021
17.33000	4749.00000	4712.17136	0.00021
17.34000	4775.00000	4708.38285	0.00021
17.35000	4738.00000	4705.09916	0.00021
17.36000	4796.00000	4702.27649	0.00021
17.37000	4797.00000	4699.88120	0.00021
17.38000	4629.00000	4697.88787	0.00022
17.39000	4609.00000	4696.27779	0.00022
17.40000	4743.00000	4695.03777	0.00021
17.41000	4805.00000	4694.15926	0.00021
17.42000	4708.00000	4693.63774	0.00021
17.43000	4721.00000	4693.47224	0.00021
17.44000	4628.00000	4693.66515	0.00022
17.45000	4659.00000	4694.22200	0.00021
17.46000	4767.00000	4695.15156	0.00021
17.47000	4768.00000	4696.46581	0.00021
17.48000	4711.00000	4698.18019	0.00021
17.49000	4747.00000	4700.31382	0.00021
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17.51000	4691.00000	4705.93546	0.00021
17.52000	4634.00000	4709.48292	0.00022
17.53000	4787.00000	4713.56916	0.00021
17.54000	4746.00000	4718.23635	0.00021
17.55000	4676.00000	4723.53180	0.00021
17.56000	4548.00000	4729.50769	0.00022
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17.58000	4861.00000	4743.72848	0.00021
17.59000	4748.00000	4752.09176	0.00021
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17.63000	4721.00000	4795.09255	0.00021
17.64000	4728.00000	4808.35479	0.00021
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17.67000	4711.00000	4853.53988	0.00021
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17.73000	4682.00000	4948.71976	0.00021
17.74000	4661.00000	4960.70090	0.00021
17.75000	4778.00000	4970.16687	0.00021
17.76000	4740.00000	4976.55097	0.00021

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17.79000	4820.00000	4972.64365	0.00021
17.80000	4758.00000	4962.94563	0.00021
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17.82000	4770.00000	4932.32259	0.00021
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18.05000	4778.00000	4758.84557	0.00021
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18.09000	4886.00000	4803.32065	0.00020
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18.23000	5124.00000	5064.96504	0.00020
18.24000	5161.00000	5085.53801	0.00019
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18.26000	5347.00000	5123.37666	0.00019
18.27000	5261.00000	5139.82714	0.00019
18.28000	5378.00000	5154.03152	0.00019
18.29000	5517.00000	5165.51221	0.00018
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18.32000	5503.00000	5178.99128	0.00018
18.33000	5458.00000	5175.22876	0.00018
18.34000	5398.00000	5166.97485	0.00019
18.35000	5482.00000	5154.25020	0.00018
18.36000	5420.00000	5137.26547	0.00018
18.37000	5304.00000	5116.41672	0.00019
18.38000	5303.00000	5092.25747	0.00019
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20.66000	4466.00000	4429.87925	0.00022
20.67000	4439.00000	4428.33263	0.00023
20.68000	4421.00000	4426.94059	0.00023
20.69000	4376.00000	4425.68418	0.00023
20.70000	4541.00000	4424.54643	0.00022
20.71000	4372.00000	4423.51260	0.00023
20.72000	4341.00000	4422.57019	0.00023
20.73000	4497.00000	4421.70884	0.00022
20.74000	4433.00000	4420.92019	0.00023
20.75000	4426.00000	4420.19774	0.00023
20.76000	4412.00000	4419.53659	0.00023
20.77000	4381.00000	4418.93355	0.00023
20.78000	4457.00000	4418.38693	0.00022
20.79000	4456.00000	4417.89292	0.00022
20.80000	4428.00000	4417.44593	0.00023
20.81000	4570.00000	4417.04989	0.00022
20.82000	4498.00000	4416.70599	0.00022
20.83000	4378.00000	4416.41524	0.00023
20.84000	4381.00000	4416.17917	0.00023
20.85000	4338.00000	4415.99982	0.00023
20.86000	4418.00000	4415.87975	0.00023
20.87000	4239.00000	4415.82211	0.00024
20.88000	4340.00000	4415.83064	0.00023
20.89000	4352.00000	4415.91016	0.00023
20.90000	4391.00000	4416.06900	0.00023
20.91000	4327.00000	4416.31272	0.00023
20.92000	4363.00000	4416.61729	0.00023
20.93000	4509.00000	4417.00283	0.00022
20.94000	4439.00000	4417.48110	0.00023
20.95000	4364.00000	4418.05918	0.00023
20.96000	4379.00000	4418.74436	0.00023
20.97000	4408.00000	4419.54447	0.00023
20.98000	4388.00000	4420.46793	0.00023
20.99000	4429.00000	4421.52385	0.00023
21.00000	4418.00000	4422.72212	0.00023
21.01000	4411.00000	4424.07354	0.00023
21.02000	4490.00000	4425.59021	0.00022
21.03000	4505.00000	4427.28691	0.00022
21.04000	4475.00000	4429.18822	0.00022
21.05000	4455.00000	4431.31052	0.00022
21.06000	4360.00000	4433.59226	0.00023
21.07000	4381.00000	4436.04810	0.00023
21.08000	4415.00000	4438.73312	0.00023
21.09000	4425.00000	4441.66515	0.00023
21.10000	4474.00000	4444.85857	0.00022
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21.12000	4458.00000	4452.08787	0.00022
21.13000	4457.00000	4456.15274	0.00022
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21.57000	4531.00000	4517.11678	0.00022
21.58000	4593.00000	4505.43721	0.00022
21.59000	4502.00000	4494.26370	0.00022
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22.03000	4265.00000	4346.41316	0.00023
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24.30000	5170.00000	5324.15208	0.00019
24.31000	5146.00000	5379.12620	0.00019
24.32000	5288.00000	5437.43670	0.00019
24.33000	5384.00000	5499.00904	0.00019
24.34000	5371.00000	5563.69776	0.00019
24.35000	5474.00000	5631.27509	0.00018
24.36000	5692.00000	5701.41972	0.00018
24.37000	5731.00000	5773.70615	0.00017
24.38000	5657.00000	5847.59492	0.00018
24.39000	5725.00000	5922.42418	0.00017
24.40000	5699.00000	5997.40318	0.00018
24.41000	5869.00000	6071.60844	0.00017
24.42000	6031.00000	6143.98410	0.00017
24.43000	6259.00000	6213.34903	0.00016
24.44000	6319.00000	6278.41452	0.00016
24.45000	6188.00000	6337.81590	0.00016
24.46000	6327.00000	6390.16440	0.00016
24.47000	6265.00000	6434.13971	0.00016
24.48000	6304.00000	6468.58831	0.00016
24.49000	6445.00000	6492.65075	0.00016
24.50000	6444.00000	6505.88398	0.00016
24.51000	6382.00000	6508.34974	0.00016
24.52000	6405.00000	6500.64055	0.00016
24.53000	6465.00000	6483.82395	0.00015
24.54000	6451.00000	6459.31775	0.00016
24.55000	6410.00000	6428.77366	0.00016
24.56000	6270.00000	6393.89534	0.00016
24.57000	6349.00000	6356.34270	0.00016
24.58000	6271.00000	6317.65487	0.00016
24.59000	6293.00000	6278.95385	0.00016
24.60000	6269.00000	6240.91582	0.00016
24.61000	6283.00000	6204.76066	0.00016
24.62000	6042.00000	6171.19950	0.00017
24.63000	6056.00000	6140.72551	0.00017
24.64000	6030.00000	6113.67161	0.00017
24.65000	5838.00000	6090.22941	0.00017
24.66000	5982.00000	6070.46883	0.00017

24.67000	5950.00000	6054.35815	0.00017
24.68000	5844.00000	6041.78374	0.00017
24.69000	5811.00000	6032.56868	0.00017
24.70000	5766.00000	6026.49038	0.00017
24.71000	5925.00000	6023.29774	0.00017
24.72000	5842.00000	6022.73893	0.00017
24.73000	5681.00000	6024.52598	0.00018
24.74000	5823.00000	6028.20394	0.00017
24.75000	5801.00000	6033.55758	0.00017
24.76000	5800.00000	6040.34970	0.00017
24.77000	5813.00000	6048.31225	0.00017
24.78000	5814.00000	6057.18354	0.00017
24.79000	5926.00000	6066.71139	0.00017
24.80000	5915.00000	6076.65236	0.00017
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24.82000	5879.00000	6096.83723	0.00017
24.83000	5925.00000	6106.62838	0.00017
24.84000	5870.00000	6115.92557	0.00017
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24.86000	5923.00000	6132.18834	0.00017
24.87000	6001.00000	6138.74307	0.00017
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24.89000	5983.00000	6147.72815	0.00017
24.90000	5811.00000	6149.80102	0.00017
24.91000	6000.00000	6150.04582	0.00017
24.92000	6086.00000	6148.32329	0.00016
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24.94000	6060.00000	6138.52905	0.00017
24.95000	6109.00000	6130.29728	0.00016
24.96000	6062.00000	6119.78297	0.00016
24.97000	5981.00000	6106.97969	0.00017
24.98000	6069.00000	6091.91263	0.00016
24.99000	6081.00000	6074.63855	0.00016
25.00000	6083.00000	6055.24477	0.00016
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25.02000	6006.00000	6010.58847	0.00017
25.03000	5908.00000	5985.63285	0.00017
25.04000	6126.00000	5959.16404	0.00016
25.05000	6014.00000	5931.37998	0.00017
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25.07000	6011.00000	5872.70339	0.00017
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25.09000	5967.00000	5811.30776	0.00017
25.10000	5887.00000	5780.11566	0.00017
25.11000	6004.00000	5748.86000	0.00017
25.12000	5880.00000	5717.72686	0.00017
25.13000	5807.00000	5686.88945	0.00017
25.14000	5710.00000	5656.50697	0.00018
25.15000	5834.00000	5626.72399	0.00017
25.16000	5767.00000	5597.67031	0.00017
25.17000	5772.00000	5569.46120	0.00017
25.18000	5763.00000	5542.19794	0.00017
25.19000	5733.00000	5515.96863	0.00017
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25.23000	5555.00000	5422.75001	0.00018
25.24000	5454.00000	5402.62977	0.00018
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25.26000	5586.00000	5366.43498	0.00018
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25.33000	5453.00000	5283.90823	0.00018
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25.35000	5267.00000	5273.29959	0.00019

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25.39000	5524.00000	5269.60274	0.00018
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26.18000	7043.00000	6842.01791	0.00014
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26.23000	6937.00000	7197.81236	0.00014
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26.83000	11747.00000	11814.42097	0.00009
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27.01000	7924.00000	8691.87136	0.00013
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27.28000	6415.00000	6442.96570	0.00016
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27.33000	6226.00000	6366.60015	0.00016
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27.36000	6140.00000	6341.23864	0.00016
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27.38000	6258.00000	6320.98741	0.00016
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27.59000	5413.00000	5290.47360	0.00018
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27.77000	5185.00000	4723.90869	0.00019
27.78000	5122.00000	4702.19147	0.00020
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28.00000	5082.00000	4374.29353	0.00020
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28.03000	5085.00000	4357.34598	0.00020
28.04000	5178.00000	4353.76015	0.00019
28.05000	5124.00000	4351.31110	0.00020
28.06000	5084.00000	4350.07280	0.00020
28.07000	5255.00000	4350.12721	0.00019
28.08000	5243.00000	4351.56478	0.00019
28.09000	5137.00000	4354.48486	0.00019
28.10000	5093.00000	4358.99594	0.00020
28.11000	5175.00000	4365.21576	0.00019

28.12000	5163.00000	4373.27142	0.00019
28.13000	5124.00000	4383.29916	0.00020
28.14000	5178.00000	4395.44359	0.00019
28.15000	5133.00000	4409.85535	0.00019
28.16000	5109.00000	4426.69275	0.00020
28.17000	5120.00000	4446.12018	0.00020
28.18000	5184.00000	4468.30461	0.00019
28.19000	5191.00000	4493.41373	0.00019
28.20000	5224.00000	4521.61346	0.00019
28.21000	5081.00000	4553.06470	0.00020
28.22000	5147.00000	4587.91963	0.00019
28.23000	5177.00000	4626.31745	0.00019
28.24000	5234.00000	4668.37957	0.00019
28.25000	5258.00000	4714.20422	0.00019
28.26000	5258.00000	4763.86051	0.00019
28.27000	5161.00000	4817.38182	0.00019
28.28000	5352.00000	4874.75872	0.00019
28.29000	5409.00000	4935.93134	0.00018
28.30000	5405.00000	5000.78207	0.00019
28.31000	5454.00000	5069.12379	0.00018
28.32000	5433.00000	5140.67886	0.00018
28.33000	5590.00000	5215.09905	0.00018
28.34000	5566.00000	5291.93508	0.00018
28.35000	5649.00000	5370.62425	0.00018
28.36000	5740.00000	5450.47998	0.00017
28.37000	5737.00000	5530.68542	0.00017
28.38000	5641.00000	5610.28039	0.00018
28.39000	5721.00000	5688.15494	0.00017
28.40000	5750.00000	5763.04775	0.00017
28.41000	5849.00000	5833.55218	0.00017
28.42000	5931.00000	5898.13376	0.00017
28.43000	6028.00000	5955.16314	0.00017
28.44000	6017.00000	6002.96842	0.00017
28.45000	5985.00000	6039.90908	0.00017
28.46000	6063.00000	6064.47140	0.00016
28.47000	6019.00000	6075.37999	0.00017
28.48000	6029.00000	6071.71280	0.00017
28.49000	5923.00000	6053.00791	0.00017
28.50000	5987.00000	6019.34840	0.00017
28.51000	5836.00000	5971.38527	0.00017
28.52000	5745.00000	5910.31144	0.00017
28.53000	5772.00000	5837.77776	0.00017
28.54000	5766.00000	5755.76380	0.00017
28.55000	5639.00000	5666.42535	0.00018
28.56000	5341.00000	5571.94316	0.00019
28.57000	5467.00000	5474.39278	0.00018
28.58000	5403.00000	5375.64502	0.00019
28.59000	5262.00000	5277.31388	0.00019
28.60000	5256.00000	5180.73770	0.00019
28.61000	5154.00000	5086.97655	0.00019
28.62000	5036.00000	4996.83545	0.00020
28.63000	4954.00000	4910.89627	0.00020
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28.65000	4793.00000	4753.04034	0.00021
28.66000	4733.00000	4681.47319	0.00021
28.67000	4668.00000	4614.86306	0.00021
28.68000	4530.00000	4553.14439	0.00022
28.69000	4550.00000	4496.19132	0.00022
28.70000	4517.00000	4443.83222	0.00022
28.71000	4500.00000	4395.86148	0.00022
28.72000	4379.00000	4352.04931	0.00023
28.73000	4327.00000	4312.14972	0.00023
28.74000	4260.00000	4275.90732	0.00023
28.75000	4159.00000	4243.06287	0.00024
28.76000	4241.00000	4213.35799	0.00024
28.77000	4049.00000	4186.53901	0.00025
28.78000	4067.00000	4162.36007	0.00025
28.79000	4072.00000	4140.58568	0.00025
28.80000	3958.00000	4120.99254	0.00025

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28.84000	4019.00000	4060.44795	0.00025
28.85000	3837.00000	4048.89596	0.00026
28.86000	3969.00000	4038.47151	0.00025
28.87000	3876.00000	4029.03548	0.00026
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28.89000	3946.00000	4012.85260	0.00025
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28.91000	3894.00000	3999.61443	0.00026
28.92000	3989.00000	3993.85963	0.00025
28.93000	3891.00000	3988.58808	0.00026
28.94000	3828.00000	3983.73915	0.00026
28.95000	3893.00000	3979.25935	0.00026
28.96000	3911.00000	3975.10279	0.00026
28.97000	3799.00000	3971.23183	0.00026
28.98000	3821.00000	3967.61822	0.00026
28.99000	3799.00000	3964.24433	0.00026
29.00000	3860.00000	3961.10443	0.00026
29.01000	3773.00000	3958.20566	0.00027
29.02000	3858.00000	3955.56854	0.00026
29.03000	3798.00000	3953.22660	0.00026
29.04000	3857.00000	3951.22519	0.00026
29.05000	3796.00000	3949.62022	0.00026
29.06000	3666.00000	3948.47247	0.00027
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29.09000	3813.00000	3948.31887	0.00026
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29.12000	3760.00000	3954.16520	0.00027
29.13000	3792.00000	3957.56214	0.00026
29.14000	3795.00000	3961.66873	0.00026
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29.19000	3761.00000	3990.66086	0.00027
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29.23000	3752.00000	4015.91982	0.00027
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29.27000	3822.00000	4026.65726	0.00026
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29.35000	3789.00000	3939.82170	0.00026
29.36000	3704.00000	3918.83672	0.00027
29.37000	3678.00000	3896.64160	0.00027
29.38000	3721.00000	3873.66383	0.00027
29.39000	3663.00000	3850.30546	0.00027
29.40000	3666.00000	3826.92659	0.00027
29.41000	3638.00000	3803.83962	0.00027
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31.71000	3168.00000	3046.10160	0.00032
31.72000	3226.00000	3033.27307	0.00031
31.73000	3141.00000	3021.55622	0.00032
31.74000	3185.00000	3010.82833	0.00031
31.75000	3144.00000	3000.98159	0.00032
31.76000	3098.00000	2991.92185	0.00032
31.77000	3107.00000	2983.56717	0.00032
31.78000	3202.00000	2975.84652	0.00031
31.79000	3149.00000	2968.69848	0.00032
31.80000	3216.00000	2962.07001	0.00031
31.81000	3095.00000	2955.91531	0.00032
31.82000	3096.00000	2950.19481	0.00032
31.83000	3111.00000	2944.87429	0.00032
31.84000	3024.00000	2939.92403	0.00033
31.85000	3087.00000	2935.31817	0.00032
31.86000	3098.00000	2931.03411	0.00032
31.87000	3169.00000	2927.05202	0.00032
31.88000	3163.00000	2923.35439	0.00032
31.89000	3014.00000	2919.92576	0.00033
31.90000	3076.00000	2916.75238	0.00033
31.91000	3103.00000	2913.82148	0.00032
31.92000	3136.00000	2911.12152	0.00032
31.93000	3159.00000	2908.64278	0.00032
31.94000	3032.00000	2906.37621	0.00033
31.95000	3134.00000	2904.31349	0.00032
31.96000	3137.00000	2902.44708	0.00032
31.97000	3062.00000	2900.77017	0.00033
31.98000	3074.00000	2899.27646	0.00033
31.99000	3130.00000	2897.95913	0.00032
32.00000	3054.00000	2896.81308	0.00033
32.01000	2973.00000	2895.83371	0.00034
32.02000	2986.00000	2895.01653	0.00033
32.03000	3040.00000	2894.35741	0.00033
32.04000	3136.00000	2893.85250	0.00032
32.05000	3076.00000	2893.49833	0.00033
32.06000	3036.00000	2893.29170	0.00033
32.07000	3038.00000	2893.22972	0.00033
32.08000	3062.00000	2893.30936	0.00033
32.09000	3028.00000	2893.52790	0.00033
32.10000	3059.00000	2893.88325	0.00033
32.11000	3020.00000	2894.37332	0.00033
32.12000	2952.00000	2894.99615	0.00034
32.13000	3060.00000	2895.74997	0.00033
32.14000	3103.00000	2896.63313	0.00032
32.15000	2987.00000	2897.64410	0.00033
32.16000	2946.00000	2898.78144	0.00034
32.17000	2992.00000	2900.04385	0.00033
32.18000	2992.00000	2901.43016	0.00033
32.19000	2945.00000	2902.93923	0.00034
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32.22000	2989.00000	2908.19129	0.00033
32.23000	2937.00000	2910.17844	0.00034
32.24000	3063.00000	2912.27881	0.00033
32.25000	3030.00000	2914.48047	0.00033

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32.33000	2972.00000	2936.85224	0.00034
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32.58000	2942.00000	3060.29607	0.00034
32.59000	3036.00000	3067.05062	0.00033
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32.73000	3093.00000	3171.91862	0.00032
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32.78000	3196.00000	3211.63445	0.00031
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32.80000	3194.00000	3227.39557	0.00031
32.81000	3183.00000	3235.21486	0.00031
32.82000	3056.00000	3242.98007	0.00033
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32.86000	3241.00000	3273.37592	0.00031
32.87000	3213.00000	3280.78811	0.00031
32.88000	3214.00000	3288.12226	0.00031
32.89000	3261.00000	3295.37944	0.00031
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34.31000	4924.00000	4887.21080	0.00020
34.32000	4998.00000	4942.28068	0.00020

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35.43000	2899.00000	2743.82199	0.00034
35.44000	2853.00000	2730.17219	0.00035
35.45000	2900.00000	2717.38099	0.00034
35.46000	2912.00000	2705.46310	0.00034
35.47000	2846.00000	2694.42556	0.00035
35.48000	2899.00000	2684.26948	0.00034
35.49000	2751.00000	2674.99157	0.00036
35.50000	2864.00000	2666.58538	0.00035
35.51000	2784.00000	2659.04229	0.00036
35.52000	2757.00000	2652.35215	0.00036
35.53000	2846.00000	2646.50469	0.00035
35.54000	2810.00000	2641.48972	0.00036
35.55000	2759.00000	2637.29761	0.00036
35.56000	2719.00000	2633.91984	0.00037
35.57000	2778.00000	2631.34938	0.00036
35.58000	2746.00000	2629.58101	0.00036
35.59000	2796.00000	2628.61164	0.00036
35.60000	2798.00000	2628.44055	0.00036
35.61000	2813.00000	2629.06960	0.00036
35.62000	2810.00000	2630.50345	0.00036
35.63000	2738.00000	2632.74977	0.00037
35.64000	2762.00000	2635.81976	0.00036
35.65000	2732.00000	2639.72755	0.00037
35.66000	2873.00000	2644.48519	0.00035
35.67000	2825.00000	2650.11313	0.00035
35.68000	2796.00000	2656.63602	0.00036
35.69000	2796.00000	2664.08019	0.00036
35.70000	2739.00000	2672.47464	0.00037

35.71000	2744.00000	2681.85125	0.00036
35.72000	2806.00000	2692.24461	0.00036
35.73000	2868.00000	2703.69230	0.00035
35.74000	2856.00000	2716.23323	0.00035
35.75000	2939.00000	2729.90253	0.00034
35.76000	2932.00000	2744.74487	0.00034
35.77000	2895.00000	2760.80425	0.00035
35.78000	2913.00000	2778.12477	0.00034
35.79000	2958.00000	2796.75091	0.00034
35.80000	2894.00000	2816.71301	0.00035
35.81000	2966.00000	2838.01805	0.00034
35.82000	2986.00000	2860.71957	0.00033
35.83000	2952.00000	2884.93865	0.00034
35.84000	2968.00000	2910.62354	0.00034
35.85000	3020.00000	2937.80561	0.00033
35.86000	3119.00000	2966.48629	0.00032
35.87000	3092.00000	2996.66323	0.00032
35.88000	3176.00000	3028.32113	0.00031
35.89000	3236.00000	3061.42958	0.00031
35.90000	3207.00000	3095.94055	0.00031
35.91000	3239.00000	3131.78577	0.00031
35.92000	3224.00000	3168.87405	0.00031
35.93000	3336.00000	3207.08851	0.00030
35.94000	3304.00000	3246.28373	0.00030
35.95000	3356.00000	3286.28300	0.00030
35.96000	3455.00000	3326.87592	0.00029
35.97000	3446.00000	3367.81650	0.00029
35.98000	3534.00000	3408.82140	0.00028
35.99000	3659.00000	3449.56701	0.00027
36.00000	3604.00000	3489.69327	0.00028
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36.02000	3651.00000	3566.48088	0.00027
36.03000	3810.00000	3602.26007	0.00026
36.04000	3808.00000	3635.66629	0.00026
36.05000	3908.00000	3666.20017	0.00026
36.06000	3866.00000	3693.32111	0.00026
36.07000	3881.00000	3716.59993	0.00026
36.08000	3908.00000	3736.00605	0.00026
36.09000	3893.00000	3750.86134	0.00026
36.10000	4078.00000	3760.80431	0.00025
36.11000	4081.00000	3765.59128	0.00025
36.12000	4036.00000	3765.07261	0.00025
36.13000	3935.00000	3759.20284	0.00025
36.14000	3972.00000	3748.04350	0.00025
36.15000	3990.00000	3731.77149	0.00025
36.16000	3894.00000	3710.66789	0.00026
36.17000	3897.00000	3685.10145	0.00026
36.18000	3893.00000	3655.52148	0.00026
36.19000	3809.00000	3622.43563	0.00026
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36.21000	3739.00000	3547.92564	0.00027
36.22000	3646.00000	3507.59323	0.00027
36.23000	3659.00000	3465.91104	0.00027
36.24000	3528.00000	3423.37015	0.00028
36.25000	3580.00000	3380.40803	0.00028
36.26000	3631.00000	3337.40386	0.00028
36.27000	3468.00000	3294.66704	0.00029
36.28000	3375.00000	3252.40505	0.00030
36.29000	3332.00000	3210.58301	0.00030
36.30000	3304.00000	3169.35630	0.00030
36.31000	3310.00000	3130.67177	0.00030
36.32000	3355.00000	3093.79663	0.00030
36.33000	3208.00000	3058.63934	0.00031
36.34000	3200.00000	3025.01382	0.00031
36.35000	3114.00000	2992.93809	0.00032
36.36000	3082.00000	2962.42171	0.00032
36.37000	3080.00000	2933.45849	0.00032
36.38000	3041.00000	2906.02975	0.00033
36.39000	2937.00000	2880.10678	0.00034

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36.42000	2880.00000	2810.96446	0.00035
36.43000	2895.00000	2790.64324	0.00035
36.44000	2832.00000	2771.60651	0.00035
36.45000	2872.00000	2753.77933	0.00035
36.46000	2899.00000	2737.08725	0.00034
36.47000	2841.00000	2721.50041	0.00035
36.48000	2882.00000	2706.97183	0.00035
36.49000	2819.00000	2693.44703	0.00035
36.50000	2789.00000	2680.85521	0.00036
36.51000	2767.00000	2669.14301	0.00036
36.52000	2772.00000	2658.27319	0.00036
36.53000	2758.00000	2648.20123	0.00036
36.54000	2858.00000	2638.88102	0.00035
36.55000	2815.00000	2630.25892	0.00036
36.56000	2683.00000	2622.29691	0.00037
36.57000	2720.00000	2614.95181	0.00037
36.58000	2754.00000	2608.18818	0.00036
36.59000	2737.00000	2601.96989	0.00037
36.60000	2674.00000	2596.26204	0.00037
36.61000	2681.00000	2591.03145	0.00037
36.62000	2678.00000	2586.24665	0.00037
36.63000	2624.00000	2581.87773	0.00038
36.64000	2702.00000	2577.89642	0.00037
36.65000	2555.00000	2574.27591	0.00039
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36.68000	2622.00000	2565.32773	0.00038
36.69000	2646.00000	2562.90650	0.00038
36.70000	2625.00000	2560.73160	0.00038
36.71000	2633.00000	2558.78551	0.00038
36.72000	2678.00000	2557.04969	0.00037
36.73000	2656.00000	2555.49105	0.00038
36.74000	2563.00000	2554.08564	0.00039
36.75000	2623.00000	2552.82801	0.00038
36.76000	2610.00000	2551.70425	0.00038
36.77000	2651.00000	2550.69925	0.00038
36.78000	2750.00000	2549.79902	0.00036
36.79000	2595.00000	2548.99068	0.00039
36.80000	2665.00000	2548.26277	0.00038
36.81000	2663.00000	2547.60652	0.00038
36.82000	2669.00000	2547.02257	0.00037
36.83000	2658.00000	2546.50216	0.00038
36.84000	2660.00000	2545.95843	0.00038
36.85000	2640.00000	2545.43152	0.00038
36.86000	2649.00000	2544.92609	0.00038
36.87000	2659.00000	2544.43806	0.00038
36.88000	2628.00000	2543.96448	0.00038
36.89000	2659.00000	2543.50378	0.00038
36.90000	2705.00000	2543.05577	0.00037
36.91000	2689.00000	2542.62156	0.00037
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37.07000	2680.00000	2540.40195	0.00037
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37.10000	2635.00000	2541.03169	0.00038
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37.15000	2702.00000	2541.38454	0.00037
37.16000	2692.00000	2541.23056	0.00037
37.17000	2697.00000	2540.98604	0.00037
37.18000	2659.00000	2540.65339	0.00038
37.19000	2725.00000	2540.23930	0.00037
37.20000	2637.00000	2539.75534	0.00038
37.21000	2685.00000	2539.22068	0.00037
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37.23000	2601.00000	2538.08998	0.00038
37.24000	2714.00000	2537.54354	0.00037
37.25000	2645.00000	2537.04660	0.00038
37.26000	2610.00000	2536.62546	0.00038
37.27000	2627.00000	2536.30360	0.00038
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37.29000	2657.00000	2536.03321	0.00038
37.30000	2593.00000	2536.10995	0.00039
37.31000	2623.00000	2536.33510	0.00038
37.32000	2599.00000	2536.70614	0.00038
37.33000	2624.00000	2537.21413	0.00038
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37.37000	2648.00000	2540.23742	0.00038
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37.44000	2599.00000	2543.75996	0.00038
37.45000	2526.00000	2543.46468	0.00040
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37.61000	2449.00000	2509.04165	0.00041
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37.63000	2511.00000	2504.38097	0.00040
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37.98000	2318.00000	2457.13457	0.00043
37.99000	2283.00000	2453.05147	0.00044
38.00000	2322.00000	2448.75719	0.00043
38.01000	2309.00000	2444.26987	0.00043
38.02000	2241.00000	2439.60984	0.00045
38.03000	2316.00000	2434.79926	0.00043
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38.05000	2235.00000	2424.82298	0.00045
38.06000	2223.00000	2419.70857	0.00045
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38.08000	2325.00000	2409.36179	0.00043
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38.10000	2305.00000	2399.03974	0.00043
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38.12000	2219.00000	2388.95902	0.00045
38.13000	2212.00000	2384.07495	0.00045
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38.15000	2299.00000	2374.74092	0.00043
38.16000	2251.00000	2370.33506	0.00044
38.17000	2207.00000	2366.12953	0.00045
38.18000	2154.00000	2362.14118	0.00046
38.19000	2160.00000	2358.38413	0.00046
38.20000	2182.00000	2354.86945	0.00046
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38.22000	2205.00000	2348.59438	0.00045
38.23000	2156.00000	2345.83696	0.00046
38.24000	2135.00000	2343.32479	0.00047
38.25000	2219.00000	2341.02968	0.00045
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38.27000	2222.00000	2337.14431	0.00045
38.28000	2262.00000	2335.56569	0.00044
38.29000	2197.00000	2334.16032	0.00046
38.30000	2191.00000	2332.87395	0.00046
38.31000	2201.00000	2331.66001	0.00045
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38.33000	2247.00000	2329.21777	0.00045
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38.46000	2148.00000	2277.32832	0.00047

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38.53000	2086.00000	2219.15562	0.00048
38.54000	2014.00000	2210.85365	0.00050
38.55000	2022.00000	2202.74094	0.00049
38.56000	1991.00000	2194.85380	0.00050
38.57000	2080.00000	2187.21935	0.00048
38.58000	2014.00000	2179.85672	0.00050
38.59000	2042.00000	2172.77828	0.00049
38.60000	2026.00000	2165.99089	0.00049
38.61000	2028.00000	2159.49692	0.00049
38.62000	2022.00000	2153.29506	0.00049
38.63000	2031.00000	2147.38051	0.00049
38.64000	2016.00000	2141.74691	0.00050
38.65000	1974.00000	2136.38586	0.00051
38.66000	2040.00000	2131.28666	0.00049
38.67000	1960.00000	2126.43689	0.00051
38.68000	2000.00000	2121.83153	0.00050
38.69000	2031.00000	2117.47036	0.00049
38.70000	2034.00000	2113.33130	0.00049
38.71000	2007.00000	2109.40123	0.00050
38.72000	1984.00000	2105.66866	0.00050
38.73000	1931.00000	2102.12232	0.00052
38.74000	1992.00000	2098.75124	0.00050
38.75000	1966.00000	2095.54484	0.00051
38.76000	1992.00000	2092.49298	0.00050
38.77000	1948.00000	2089.58604	0.00051
38.78000	1928.00000	2086.81491	0.00052
38.79000	1946.00000	2084.17106	0.00051
38.80000	1925.00000	2081.64660	0.00052
38.81000	1939.00000	2079.23435	0.00052
38.82000	1925.00000	2076.92797	0.00052
38.83000	1967.00000	2074.72086	0.00051
38.84000	1973.00000	2072.60592	0.00051
38.85000	2014.00000	2070.58145	0.00050
38.86000	1947.00000	2068.64393	0.00051
38.87000	1932.00000	2066.77114	0.00052
38.88000	1916.00000	2064.96527	0.00052
38.89000	1911.00000	2063.22722	0.00052
38.90000	1885.00000	2061.55415	0.00053
38.91000	1973.00000	2059.94295	0.00051
38.92000	1942.00000	2058.39002	0.00051
38.93000	1987.00000	2056.89257	0.00050
38.94000	1907.00000	2055.44850	0.00052
38.95000	1927.00000	2054.05569	0.00052
38.96000	2013.00000	2052.71211	0.00050
38.97000	1947.00000	2051.41597	0.00051
38.98000	1883.00000	2050.16568	0.00053
38.99000	1826.00000	2048.95993	0.00055
39.00000	1897.00000	2047.79810	0.00053
39.01000	1933.00000	2046.68068	0.00052
39.02000	1984.00000	2045.60436	0.00050
39.03000	1988.00000	2044.55933	0.00050
39.04000	1976.00000	2043.54992	0.00051
39.05000	1943.00000	2042.57684	0.00051
39.06000	1955.00000	2041.63830	0.00051
39.07000	1909.00000	2040.73396	0.00052
39.08000	1851.00000	2039.86307	0.00054
39.09000	1906.00000	2039.02479	0.00052
39.10000	1939.00000	2038.21832	0.00052
39.11000	1935.00000	2037.44294	0.00052
39.12000	1926.00000	2036.69794	0.00052
39.13000	1878.00000	2035.98265	0.00053
39.14000	1895.00000	2035.29645	0.00053
39.15000	1969.00000	2034.63873	0.00051

39.16000	1947.00000	2034.00892	0.00051
39.17000	1901.00000	2033.40648	0.00053
39.18000	1833.00000	2032.83103	0.00055
39.19000	1948.00000	2032.28225	0.00051
39.20000	1949.00000	2031.75851	0.00051
39.21000	1955.00000	2031.25899	0.00051
39.22000	1934.00000	2030.78360	0.00052
39.23000	1926.00000	2030.33194	0.00052
39.24000	1810.00000	2029.90379	0.00055
39.25000	1912.00000	2029.49889	0.00052
39.26000	1918.00000	2029.11320	0.00052
39.27000	1964.00000	2028.74365	0.00051
39.28000	1914.00000	2028.39141	0.00052
39.29000	1954.00000	2028.05496	0.00051
39.30000	1860.00000	2027.73113	0.00054
39.31000	1856.00000	2027.41630	0.00054
39.32000	1928.00000	2027.10615	0.00052
39.33000	1957.00000	2026.79384	0.00051
39.34000	1947.00000	2026.46598	0.00051
39.35000	1892.00000	2026.08288	0.00053
39.36000	1890.00000	2025.59099	0.00053
39.37000	1907.00000	2025.18101	0.00052
39.38000	1923.00000	2025.08261	0.00052
39.39000	1963.00000	2025.06310	0.00051
39.40000	1878.00000	2025.06893	0.00053
39.41000	1907.00000	2025.09705	0.00052
39.42000	1960.00000	2025.14668	0.00051
39.43000	1953.00000	2025.21968	0.00051
39.44000	1982.00000	2025.31646	0.00050
39.45000	1893.00000	2025.43730	0.00053
39.46000	1922.00000	2025.58271	0.00052
39.47000	1889.00000	2025.75292	0.00053
39.48000	1911.00000	2025.94918	0.00052
39.49000	1904.00000	2026.17666	0.00053
39.50000	1949.00000	2026.44277	0.00051
39.51000	1895.00000	2026.72765	0.00053
39.52000	1883.00000	2026.99581	0.00053
39.53000	1895.00000	2027.27845	0.00053
39.54000	1985.00000	2027.58081	0.00050
39.55000	1956.00000	2027.90130	0.00051
39.56000	1936.00000	2028.23515	0.00052
39.57000	1972.00000	2028.58576	0.00051
39.58000	1995.00000	2028.95394	0.00050
39.59000	1954.00000	2029.33983	0.00051
39.60000	1917.00000	2029.74525	0.00052
39.61000	1916.00000	2030.17192	0.00052
39.62000	1913.00000	2030.60444	0.00052
39.63000	1902.00000	2031.03303	0.00053
39.64000	1942.00000	2031.46789	0.00051
39.65000	1909.00000	2031.90681	0.00052
39.66000	1878.00000	2032.33342	0.00053
39.67000	1966.00000	2032.73621	0.00051
39.68000	1923.00000	2033.22533	0.00052
39.69000	1955.00000	2033.77629	0.00051
39.70000	1934.00000	2034.36494	0.00052
39.71000	1884.00000	2034.98058	0.00053
39.72000	1926.00000	2035.64014	0.00052
39.73000	1909.00000	2036.35196	0.00052
39.74000	1954.00000	2037.00775	0.00051
39.75000	1986.00000	2037.63678	0.00050
39.76000	1988.00000	2038.27419	0.00050
39.77000	1992.00000	2038.93300	0.00050
39.78000	1986.00000	2039.61567	0.00050
39.79000	2003.00000	2040.31930	0.00050
39.80000	2007.00000	2041.04426	0.00050
39.81000	1954.00000	2041.79246	0.00051
39.82000	1940.00000	2042.56613	0.00052
39.83000	1902.00000	2043.36781	0.00053
39.84000	1895.00000	2044.20038	0.00053

39.85000	1972.00000	2045.06711	0.00051
39.86000	1946.00000	2045.97167	0.00051
39.87000	2015.00000	2046.91815	0.00050
39.88000	1997.00000	2047.91114	0.00050
39.89000	1965.00000	2048.95571	0.00051
39.90000	1915.00000	2050.05754	0.00052
39.91000	1995.00000	2051.22303	0.00050
39.92000	1997.00000	2052.45929	0.00050
39.93000	1923.00000	2053.77489	0.00052
39.94000	1975.00000	2055.18391	0.00051
39.95000	1937.00000	2056.69502	0.00052
39.96000	2046.00000	2058.26769	0.00049
39.97000	1947.00000	2059.94028	0.00051
39.98000	2022.00000	2061.72752	0.00049
39.99000	1965.00000	2063.63822	0.00051
40.00000	1975.00000	2065.68006	0.00051
40.01000	2014.00000	2067.85379	0.00050
40.02000	2010.00000	2070.16523	0.00050
40.03000	2067.00000	2072.68897	0.00048
40.04000	1988.00000	2075.43936	0.00050
40.05000	2040.00000	2078.39921	0.00049
40.06000	1946.00000	2081.57311	0.00051
40.07000	1990.00000	2084.97439	0.00050
40.08000	1983.00000	2088.61638	0.00050
40.09000	2093.00000	2092.51226	0.00048
40.10000	2016.00000	2096.67493	0.00050
40.11000	1923.00000	2101.11678	0.00052
40.12000	1987.00000	2105.84960	0.00050
40.13000	2065.00000	2110.88480	0.00048
40.14000	2010.00000	2116.23186	0.00050
40.15000	2044.00000	2121.89130	0.00049
40.16000	2089.00000	2127.87201	0.00048
40.17000	2066.00000	2134.17790	0.00048
40.18000	2077.00000	2140.80889	0.00048
40.19000	2064.00000	2147.76139	0.00048
40.20000	2119.00000	2155.02790	0.00047
40.21000	2064.00000	2162.59646	0.00048
40.22000	2026.00000	2170.45019	0.00049
40.23000	2079.00000	2178.56686	0.00048
40.24000	2121.00000	2186.91854	0.00047
40.25000	2060.00000	2195.47221	0.00049
40.26000	2051.00000	2204.18786	0.00049
40.27000	2172.00000	2213.00954	0.00046
40.28000	2178.00000	2221.88619	0.00046
40.29000	2164.00000	2230.76302	0.00046
40.30000	2200.00000	2239.57779	0.00045
40.31000	2144.00000	2248.26447	0.00047
40.32000	2139.00000	2256.75496	0.00047
40.33000	2129.00000	2264.98047	0.00047
40.34000	2195.00000	2272.87285	0.00046
40.35000	2183.00000	2280.36578	0.00046
40.36000	2252.00000	2287.39550	0.00044
40.37000	2228.00000	2293.90121	0.00045
40.38000	2231.00000	2299.82503	0.00045
40.39000	2226.00000	2305.11142	0.00045
40.40000	2184.00000	2309.70658	0.00046
40.41000	2282.00000	2313.55766	0.00044
40.42000	2273.00000	2316.61240	0.00044
40.43000	2287.00000	2318.81924	0.00044
40.44000	2257.00000	2320.12830	0.00044
40.45000	2232.00000	2320.49317	0.00045
40.46000	2247.00000	2319.87186	0.00045
40.47000	2191.00000	2318.23234	0.00046
40.48000	2300.00000	2315.55478	0.00043
40.49000	2244.00000	2311.83442	0.00045
40.50000	2287.00000	2307.08441	0.00044
40.51000	2276.00000	2301.33748	0.00044
40.52000	2240.00000	2294.64647	0.00045
40.53000	2305.00000	2287.08332	0.00043

40.54000	2315.00000	2278.73892	0.00043
40.55000	2267.00000	2269.72201	0.00044
40.56000	2227.00000	2260.12880	0.00045
40.57000	2253.00000	2250.07992	0.00044
40.58000	2250.00000	2239.69809	0.00044
40.59000	2205.00000	2229.09985	0.00045
40.60000	2147.00000	2218.39493	0.00047
40.61000	2181.00000	2207.68428	0.00046
40.62000	2134.00000	2197.05833	0.00047
40.63000	2106.00000	2186.59610	0.00047
40.64000	2161.00000	2176.36495	0.00046
40.65000	2216.00000	2166.42119	0.00045
40.66000	2139.00000	2156.81059	0.00047
40.67000	2117.00000	2147.56592	0.00047
40.68000	2087.00000	2138.71066	0.00048
40.69000	2198.00000	2130.26099	0.00045
40.70000	2105.00000	2122.23129	0.00048
40.71000	2145.00000	2114.62812	0.00047
40.72000	2058.00000	2107.45258	0.00049
40.73000	2164.00000	2100.70184	0.00046
40.74000	2125.00000	2094.36986	0.00047
40.75000	2026.00000	2088.44818	0.00049
40.76000	2094.00000	2082.92646	0.00048
40.77000	2061.00000	2077.79252	0.00049
40.78000	2063.00000	2073.03131	0.00048
40.79000	2132.00000	2068.61666	0.00047
40.80000	2097.00000	2064.53696	0.00048
40.81000	2095.00000	2060.89751	0.00048
40.82000	2100.00000	2057.62835	0.00048
40.83000	2101.00000	2054.60817	0.00048
40.84000	2068.00000	2051.86874	0.00048
40.85000	2041.00000	2049.41389	0.00049
40.86000	2024.00000	2047.23167	0.00049
40.87000	2041.00000	2045.31036	0.00049
40.88000	2121.00000	2043.63885	0.00047
40.89000	2109.00000	2042.20671	0.00047
40.90000	2060.00000	2041.00427	0.00049
40.91000	2097.00000	2040.02269	0.00048
40.92000	2134.00000	2039.25398	0.00047
40.93000	2089.00000	2038.69102	0.00048
40.94000	2135.00000	2038.32763	0.00047
40.95000	2125.00000	2038.15862	0.00047
40.96000	2108.00000	2038.18003	0.00047
40.97000	2012.00000	2038.39024	0.00050
40.98000	2065.00000	2038.78896	0.00048
40.99000	2048.00000	2039.36400	0.00049
41.00000	2152.00000	2040.10818	0.00046
41.01000	2147.00000	2041.03083	0.00047
41.02000	2100.00000	2042.13393	0.00048
41.03000	2067.00000	2043.38582	0.00048
41.04000	2125.00000	2044.80545	0.00047
41.05000	2095.00000	2046.39082	0.00048
41.06000	2154.00000	2048.13860	0.00046
41.07000	2108.00000	2050.03964	0.00047
41.08000	2110.00000	2052.10035	0.00047
41.09000	2149.00000	2054.32056	0.00047
41.10000	2122.00000	2056.69585	0.00047
41.11000	2138.00000	2059.22258	0.00047
41.12000	2208.00000	2061.89804	0.00045
41.13000	2131.00000	2064.71861	0.00047
41.14000	2205.00000	2067.68042	0.00045
41.15000	2149.00000	2070.77985	0.00047
41.16000	2163.00000	2074.01403	0.00046
41.17000	2174.00000	2077.38132	0.00046
41.18000	2188.00000	2080.87982	0.00046
41.19000	2139.00000	2084.50843	0.00047
41.20000	2204.00000	2088.27158	0.00045
41.21000	2183.00000	2092.17535	0.00046
41.22000	2231.00000	2096.22809	0.00045

41.23000	2154.00000	2100.44094	0.00046
41.24000	2201.00000	2104.82787	0.00045
41.25000	2180.00000	2109.40563	0.00046
41.26000	2173.00000	2114.19391	0.00046
41.27000	2257.00000	2119.21315	0.00044
41.28000	2279.00000	2124.47899	0.00044
41.29000	2165.00000	2130.01920	0.00046
41.30000	2256.00000	2135.85953	0.00044
41.31000	2271.00000	2142.02548	0.00044
41.32000	2222.00000	2148.54300	0.00045
41.33000	2220.00000	2155.43827	0.00045
41.34000	2293.00000	2162.73736	0.00044
41.35000	2225.00000	2170.46593	0.00045
41.36000	2321.00000	2178.64880	0.00043
41.37000	2369.00000	2187.30957	0.00042
41.38000	2285.00000	2196.47013	0.00044
41.39000	2213.00000	2206.14927	0.00045
41.40000	2336.00000	2216.36147	0.00043
41.41000	2326.00000	2227.11886	0.00043
41.42000	2347.00000	2238.42910	0.00043
41.43000	2372.00000	2250.29367	0.00042
41.44000	2291.00000	2262.70739	0.00044
41.45000	2356.00000	2275.65756	0.00042
41.46000	2325.00000	2289.12308	0.00043
41.47000	2388.00000	2303.07380	0.00042
41.48000	2410.00000	2317.46918	0.00041
41.49000	2383.00000	2332.25327	0.00042
41.50000	2387.00000	2347.35985	0.00042
41.51000	2421.00000	2362.71442	0.00041
41.52000	2433.00000	2378.22535	0.00041
41.53000	2494.00000	2393.78817	0.00040
41.54000	2491.00000	2409.28590	0.00040
41.55000	2525.00000	2424.58807	0.00040
41.56000	2455.00000	2439.55229	0.00041
41.57000	2564.00000	2454.02599	0.00039
41.58000	2550.00000	2467.84887	0.00039
41.59000	2590.00000	2480.85712	0.00039
41.60000	2530.00000	2492.88531	0.00040
41.61000	2515.00000	2503.75984	0.00040
41.62000	2537.00000	2513.33028	0.00039
41.63000	2528.00000	2521.46412	0.00040
41.64000	2565.00000	2528.04917	0.00039
41.65000	2502.00000	2533.00248	0.00040
41.66000	2557.00000	2536.27723	0.00039
41.67000	2525.00000	2537.86746	0.00040
41.68000	2552.00000	2537.81068	0.00039
41.69000	2541.00000	2536.18746	0.00039
41.70000	2615.00000	2533.11800	0.00038
41.71000	2561.00000	2528.75555	0.00039
41.72000	2491.00000	2523.27745	0.00040
41.73000	2563.00000	2516.87449	0.00039
41.74000	2482.00000	2509.73988	0.00040
41.75000	2460.00000	2502.05895	0.00041
41.76000	2541.00000	2494.00030	0.00039
41.77000	2481.00000	2485.70920	0.00040
41.78000	2456.00000	2477.30321	0.00041
41.79000	2420.00000	2468.87021	0.00041
41.80000	2475.00000	2460.46833	0.00040
41.81000	2504.00000	2452.12745	0.00040
41.82000	2434.00000	2443.85201	0.00041
41.83000	2423.00000	2435.62452	0.00041
41.84000	2429.00000	2427.40969	0.00041
41.85000	2438.00000	2419.15885	0.00041
41.86000	2441.00000	2410.81441	0.00041
41.87000	2438.00000	2402.31458	0.00041
41.88000	2401.00000	2393.59748	0.00042
41.89000	2331.00000	2384.60327	0.00043
41.90000	2321.00000	2375.27999	0.00043
41.91000	2377.00000	2365.58806	0.00042

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41.93000	2382.00000	2345.00273	0.00042
41.94000	2344.00000	2334.10013	0.00043
41.95000	2361.00000	2322.81160	0.00042
41.96000	2430.00000	2311.14968	0.00041
41.97000	2343.00000	2299.13979	0.00043
41.98000	2348.00000	2286.85114	0.00043
41.99000	2330.00000	2274.34623	0.00043
42.00000	2310.00000	2261.68951	0.00043
42.01000	2332.00000	2248.94816	0.00043
42.02000	2308.00000	2236.18969	0.00043
42.03000	2280.00000	2223.47990	0.00044
42.04000	2251.00000	2210.88116	0.00044
42.05000	2147.00000	2198.45105	0.00047
42.06000	2194.00000	2186.24155	0.00046
42.07000	2175.00000	2174.29845	0.00046
42.08000	2194.00000	2162.66119	0.00046
42.09000	2162.00000	2151.36285	0.00046
42.10000	2087.00000	2140.43049	0.00048
42.11000	2198.00000	2129.88555	0.00045
42.12000	2162.00000	2119.74448	0.00046
42.13000	2063.00000	2110.01957	0.00048
42.14000	2176.00000	2100.71816	0.00046
42.15000	2099.00000	2091.84049	0.00048
42.16000	2075.00000	2083.38985	0.00048
42.17000	2041.00000	2075.36592	0.00049
42.18000	2055.00000	2067.76580	0.00049
42.19000	2077.00000	2060.58404	0.00048
42.20000	2056.00000	2053.81297	0.00049
42.21000	1985.00000	2047.44650	0.00050
42.22000	2030.00000	2041.47711	0.00049
42.23000	2079.00000	2035.89637	0.00048
42.24000	2053.00000	2030.69540	0.00049
42.25000	2033.00000	2025.86495	0.00049
42.26000	1992.00000	2021.39545	0.00050
42.27000	2018.00000	2017.27691	0.00050
42.28000	2030.00000	2013.49791	0.00049
42.29000	2022.00000	2010.04618	0.00049
42.30000	2029.00000	2006.90497	0.00049
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42.33000	2065.00000	1999.18929	0.00048
42.34000	2015.00000	1997.45180	0.00050
42.35000	2051.00000	1996.06354	0.00049
42.36000	2089.00000	1994.98806	0.00048
42.37000	2013.00000	1994.22396	0.00050
42.38000	1957.00000	1993.77011	0.00051
42.39000	2028.00000	1993.62631	0.00049
42.40000	1984.00000	1993.79329	0.00050
42.41000	1970.00000	1994.27284	0.00051
42.42000	2040.00000	1995.06783	0.00049
42.43000	2074.00000	1996.18226	0.00048
42.44000	2010.00000	1997.62137	0.00050
42.45000	2023.00000	1999.39169	0.00049
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42.47000	2021.00000	2003.95975	0.00049
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42.49000	2065.00000	2009.96286	0.00048
42.50000	2037.00000	2013.53468	0.00049
42.51000	2024.00000	2017.50710	0.00049
42.52000	1997.00000	2021.89748	0.00050
42.53000	2034.00000	2026.72501	0.00049
42.54000	2104.00000	2032.01075	0.00048
42.55000	2105.00000	2037.77776	0.00048
42.56000	2098.00000	2044.05098	0.00048
42.57000	2054.00000	2050.85606	0.00049
42.58000	2117.00000	2058.22190	0.00047
42.59000	2075.00000	2066.17932	0.00048
42.60000	2112.00000	2074.76069	0.00047

42.61000	2134.00000	2083.99999	0.00047
42.62000	2028.00000	2093.93279	0.00049
42.63000	2105.00000	2104.59605	0.00048
42.64000	2179.00000	2116.02790	0.00046
42.65000	2135.00000	2128.26740	0.00047
42.66000	2190.00000	2141.35419	0.00046
42.67000	2214.00000	2155.32823	0.00045
42.68000	2227.00000	2170.22926	0.00045
42.69000	2199.00000	2186.09510	0.00045
42.70000	2228.00000	2202.96093	0.00045
42.71000	2192.00000	2220.86254	0.00046
42.72000	2307.00000	2239.83142	0.00043
42.73000	2366.00000	2259.89430	0.00042
42.74000	2387.00000	2281.07219	0.00042
42.75000	2344.00000	2303.37891	0.00043
42.76000	2349.00000	2326.81942	0.00043
42.77000	2467.00000	2351.38790	0.00041
42.78000	2508.00000	2377.06563	0.00040
42.79000	2466.00000	2403.81845	0.00041
42.80000	2474.00000	2431.59398	0.00040
42.81000	2545.00000	2460.31937	0.00039
42.82000	2541.00000	2489.89767	0.00039
42.83000	2627.00000	2520.20471	0.00038
42.84000	2609.00000	2551.08585	0.00038
42.85000	2764.00000	2582.35281	0.00036
42.86000	2768.00000	2613.78084	0.00036
42.87000	2791.00000	2645.10644	0.00036
42.88000	2790.00000	2676.02604	0.00036
42.89000	2817.00000	2706.19606	0.00035
42.90000	2873.00000	2735.23481	0.00035
42.91000	2939.00000	2762.72673	0.00034
42.92000	2927.00000	2788.22954	0.00034
42.93000	3010.00000	2811.28459	0.00033
42.94000	3000.00000	2831.43064	0.00033
42.95000	2980.00000	2848.22074	0.00034
42.96000	2977.00000	2861.24202	0.00034
42.97000	3084.00000	2870.13615	0.00032
42.98000	3028.00000	2874.61691	0.00033
42.99000	3031.00000	2874.49435	0.00033
43.00000	2975.00000	2869.68897	0.00034
43.01000	2995.00000	2860.23614	0.00033
43.02000	2819.00000	2846.28681	0.00035
43.03000	2898.00000	2828.10168	0.00035
43.04000	2866.00000	2806.05605	0.00035
43.05000	2859.00000	2780.60464	0.00035
43.06000	2729.00000	2752.22428	0.00037
43.07000	2763.00000	2721.43256	0.00036
43.08000	2665.00000	2688.75687	0.00038
43.09000	2672.00000	2654.70968	0.00037
43.10000	2583.00000	2619.77212	0.00039
43.11000	2495.00000	2584.38218	0.00040
43.12000	2417.00000	2548.92755	0.00041
43.13000	2386.00000	2513.74259	0.00042
43.14000	2477.00000	2479.10815	0.00040
43.15000	2427.00000	2445.25254	0.00041
43.16000	2430.00000	2412.35979	0.00041
43.17000	2405.00000	2380.57167	0.00042
43.18000	2380.00000	2349.99357	0.00042
43.19000	2259.00000	2320.69990	0.00044
43.20000	2160.00000	2292.73851	0.00046
43.21000	2221.00000	2266.13468	0.00045
43.22000	2158.00000	2240.89755	0.00046
43.23000	2128.00000	2217.02056	0.00047
43.24000	2144.00000	2194.48295	0.00047
43.25000	2147.00000	2173.24133	0.00047
43.26000	2192.00000	2153.26479	0.00046
43.27000	2112.00000	2134.64322	0.00047
43.28000	2105.00000	2117.25934	0.00048
43.29000	2094.00000	2101.06490	0.00048

43.30000	2107.00000	2086.00515	0.00047
43.31000	2105.00000	2072.03256	0.00048
43.32000	2047.00000	2059.09492	0.00049
43.33000	2120.00000	2047.14940	0.00047
43.34000	2073.00000	2036.15128	0.00048
43.35000	2050.00000	2026.05537	0.00049
43.36000	1984.00000	2016.81737	0.00050
43.37000	2065.00000	2008.39427	0.00048
43.38000	2089.00000	2000.74501	0.00048
43.39000	1975.00000	1993.82915	0.00051
43.40000	2011.00000	1987.59670	0.00050
43.41000	1992.00000	1982.00690	0.00050
43.42000	2016.00000	1977.03874	0.00050
43.43000	2000.00000	1972.64645	0.00050
43.44000	1951.00000	1968.80788	0.00051
43.45000	2005.00000	1965.47679	0.00050
43.46000	2003.00000	1962.61603	0.00050
43.47000	1967.00000	1960.18682	0.00051
43.48000	2012.00000	1958.15156	0.00050
43.49000	1943.00000	1956.47170	0.00051
43.50000	1999.00000	1955.10736	0.00050
43.51000	1971.00000	1954.01713	0.00051
43.52000	1960.00000	1953.15787	0.00051
43.53000	1977.00000	1952.48457	0.00051
43.54000	2035.00000	1951.95037	0.00049
43.55000	2055.00000	1951.50669	0.00049
43.56000	1965.00000	1951.10396	0.00051
43.57000	1995.00000	1950.69123	0.00050
43.58000	2058.00000	1950.21134	0.00049
43.59000	1994.00000	1949.61132	0.00050
43.60000	1968.00000	1948.84312	0.00051
43.61000	1997.00000	1947.85831	0.00050
43.62000	2009.00000	1946.60999	0.00050
43.63000	1960.00000	1945.05552	0.00051
43.64000	2038.00000	1943.16008	0.00049
43.65000	2086.00000	1940.90281	0.00048
43.66000	2086.00000	1938.25767	0.00048
43.67000	2086.00000	1935.21246	0.00048
43.68000	2050.00000	1931.76316	0.00049
43.69000	1956.00000	1927.91529	0.00051
43.70000	1954.00000	1923.68303	0.00051
43.71000	1965.00000	1919.08857	0.00051
43.72000	1944.00000	1914.16107	0.00051
43.73000	1995.00000	1908.93405	0.00050
43.74000	1974.00000	1903.44456	0.00051
43.75000	2026.00000	1897.73497	0.00049
43.76000	1929.00000	1891.84601	0.00052
43.77000	1956.00000	1885.82032	0.00051
43.78000	1946.00000	1879.71812	0.00051
43.79000	1968.00000	1873.57178	0.00051
43.80000	1901.00000	1867.41646	0.00053
43.81000	1854.00000	1861.28477	0.00054
43.82000	1871.00000	1855.20937	0.00053
43.83000	1932.00000	1849.21856	0.00052
43.84000	1919.00000	1843.32059	0.00052
43.85000	1924.00000	1837.53392	0.00052
43.86000	1871.00000	1831.88133	0.00053
43.87000	1880.00000	1826.37642	0.00053
43.88000	1871.00000	1821.02862	0.00053
43.89000	1859.00000	1815.84481	0.00054
43.90000	1841.00000	1810.82957	0.00054
43.91000	1819.00000	1805.98555	0.00055
43.92000	1813.00000	1801.31367	0.00055
43.93000	1783.00000	1796.81345	0.00056
43.94000	1787.00000	1792.48320	0.00056
43.95000	1853.00000	1788.32023	0.00054
43.96000	1856.00000	1784.32104	0.00054
43.97000	1788.00000	1780.48147	0.00056
43.98000	1819.00000	1776.79683	0.00055

43.99000	1797.00000	1773.26200	0.00056
44.00000	1763.00000	1769.87152	0.00057
44.01000	1843.00000	1766.61969	0.00054
44.02000	1809.00000	1763.50055	0.00055
44.03000	1766.00000	1760.50797	0.00057
44.04000	1815.00000	1757.63570	0.00055
44.05000	1746.00000	1754.87716	0.00057
44.06000	1769.00000	1752.22494	0.00057
44.07000	1809.00000	1749.66714	0.00055
44.08000	1817.00000	1747.19788	0.00055
44.09000	1814.00000	1744.85801	0.00055
44.10000	1801.00000	1742.60514	0.00056
44.11000	1743.00000	1740.44057	0.00057
44.12000	1790.00000	1738.35520	0.00056
44.13000	1803.00000	1736.34564	0.00055
44.14000	1803.00000	1734.40911	0.00055
44.15000	1756.00000	1732.53390	0.00057
44.16000	1767.00000	1730.70794	0.00057
44.17000	1771.00000	1728.93516	0.00056
44.18000	1768.00000	1727.21290	0.00057
44.19000	1807.00000	1725.53709	0.00055
44.20000	1752.00000	1723.90457	0.00057
44.21000	1737.00000	1722.31231	0.00058
44.22000	1841.00000	1720.75793	0.00054
44.23000	1807.00000	1719.24120	0.00055
44.24000	1681.00000	1717.76092	0.00059
44.25000	1730.00000	1716.29529	0.00058
44.26000	1680.00000	1714.85057	0.00060
44.27000	1716.00000	1713.42937	0.00058
44.28000	1759.00000	1712.03064	0.00057
44.29000	1739.00000	1710.64597	0.00058
44.30000	1716.00000	1709.27379	0.00058
44.31000	1744.00000	1707.91538	0.00057
44.32000	1748.00000	1706.56918	0.00057
44.33000	1703.00000	1705.23368	0.00059
44.34000	1674.00000	1703.90789	0.00060
44.35000	1760.00000	1702.59013	0.00057
44.36000	1734.00000	1701.27905	0.00058
44.37000	1791.00000	1699.97387	0.00056
44.38000	1812.00000	1698.67337	0.00055
44.39000	1797.00000	1697.37619	0.00056
44.40000	1736.00000	1696.08088	0.00058
44.41000	1752.00000	1694.78555	0.00057
44.42000	1749.00000	1693.48705	0.00057
44.43000	1805.00000	1692.17860	0.00055
44.44000	1780.00000	1690.83505	0.00056
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44.46000	1698.00000	1688.20864	0.00059
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44.49000	1822.00000	1684.65042	0.00055
44.50000	1716.00000	1683.49620	0.00058
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44.53000	1746.00000	1680.12275	0.00057
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44.55000	1723.00000	1677.95862	0.00058
44.56000	1695.00000	1676.90535	0.00059
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44.58000	1796.00000	1674.86230	0.00056
44.59000	1736.00000	1673.87492	0.00058
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44.63000	1718.00000	1670.18121	0.00058
44.64000	1753.00000	1669.32777	0.00057
44.65000	1694.00000	1668.50470	0.00059
44.66000	1705.00000	1667.71319	0.00059
44.67000	1742.00000	1666.95443	0.00057

44.68000	1758.00000	1666.22977	0.00057
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44.73000	1756.00000	1663.13821	0.00057
44.74000	1747.00000	1662.63094	0.00057
44.75000	1728.00000	1662.16271	0.00058
44.76000	1689.00000	1661.73402	0.00059
44.77000	1700.00000	1661.34529	0.00059
44.78000	1682.00000	1660.99683	0.00059
44.79000	1710.00000	1660.68887	0.00058
44.80000	1751.00000	1660.42151	0.00057
44.81000	1674.00000	1660.19476	0.00060
44.82000	1692.00000	1660.00849	0.00059
44.83000	1727.00000	1659.86248	0.00058
44.84000	1733.00000	1659.75636	0.00058
44.85000	1732.00000	1659.68965	0.00058
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44.88000	1791.00000	1659.71915	0.00056
44.89000	1738.00000	1659.80260	0.00058
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45.00000	1733.00000	1662.68866	0.00058
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45.22000	1736.00000	1672.60169	0.00058
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45.25000	1755.00000	1674.40822	0.00057
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45.29000	1714.00000	1677.57268	0.00058
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45.36000	1735.00000	1686.72773	0.00058

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45.43000	1832.00000	1702.96317	0.00055
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45.47000	1838.00000	1715.93592	0.00054
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45.54000	1891.00000	1742.24503	0.00053
45.55000	1945.00000	1745.85912	0.00051
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45.57000	1897.00000	1752.47163	0.00053
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45.63000	1872.00000	1763.16080	0.00053
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45.73000	1830.00000	1740.81380	0.00055
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45.75000	1760.00000	1733.02571	0.00057
45.76000	1824.00000	1729.13984	0.00055
45.77000	1872.00000	1725.33310	0.00053
45.78000	1761.00000	1721.65207	0.00057
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45.83000	1761.00000	1706.29420	0.00057
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46.05000	1690.00000	1717.71797	0.00059

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46.10000	1665.00000	1735.58315	0.00060
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46.12000	1635.00000	1744.04529	0.00061
46.13000	1608.00000	1748.55974	0.00062
46.14000	1674.00000	1753.26429	0.00060
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46.19000	1653.00000	1779.51981	0.00060
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46.23000	1702.00000	1803.52048	0.00059
46.24000	1725.00000	1809.84667	0.00058
46.25000	1751.00000	1816.26526	0.00057
46.26000	1703.00000	1822.75615	0.00059
46.27000	1678.00000	1829.29567	0.00060
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46.31000	1707.00000	1855.41161	0.00059
46.32000	1696.00000	1861.79596	0.00059
46.33000	1716.00000	1868.07256	0.00058
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46.58000	1872.00000	1975.89063	0.00053
46.59000	1855.00000	1977.84848	0.00054
46.60000	1765.00000	1979.48432	0.00057
46.61000	1770.00000	1980.77664	0.00056
46.62000	1754.00000	1981.70538	0.00057
46.63000	1776.00000	1982.25218	0.00056
46.64000	1874.00000	1982.40064	0.00053
46.65000	1855.00000	1982.13641	0.00054
46.66000	1842.00000	1981.44731	0.00054
46.67000	1746.00000	1980.32332	0.00057
46.68000	1789.00000	1978.75660	0.00056
46.69000	1832.00000	1976.74138	0.00055
46.70000	1857.00000	1974.27343	0.00054
46.71000	1863.00000	1971.35133	0.00054
46.72000	1842.00000	1967.98132	0.00054
46.73000	1782.00000	1964.16376	0.00056
46.74000	1847.00000	1959.90291	0.00054

46.75000	1815.00000	1955.20631	0.00055
46.76000	1872.00000	1950.08353	0.00053
46.77000	1862.00000	1944.54388	0.00054
46.78000	1741.00000	1938.59801	0.00057
46.79000	1859.00000	1932.28987	0.00054
46.80000	1822.00000	1925.67178	0.00055
46.81000	1766.00000	1918.73547	0.00057
46.82000	1801.00000	1911.50603	0.00056
46.83000	1868.00000	1904.01573	0.00054
46.84000	1758.00000	1896.29774	0.00057
46.85000	1783.00000	1888.38647	0.00056
46.86000	1697.00000	1880.31682	0.00059
46.87000	1754.00000	1872.12352	0.00057
46.88000	1731.00000	1863.84133	0.00058
46.89000	1711.00000	1855.50378	0.00058
46.90000	1722.00000	1847.14294	0.00058
46.91000	1691.00000	1838.78934	0.00059
46.92000	1739.00000	1830.47095	0.00058
46.93000	1706.00000	1822.21038	0.00059
46.94000	1738.00000	1814.02785	0.00058
46.95000	1684.00000	1805.94548	0.00059
46.96000	1743.00000	1797.98070	0.00057
46.97000	1694.00000	1790.14983	0.00059
46.98000	1720.00000	1782.46624	0.00058
46.99000	1639.00000	1774.94119	0.00061
47.00000	1612.00000	1767.58487	0.00062
47.01000	1670.00000	1760.40541	0.00060
47.02000	1708.00000	1753.40210	0.00059
47.03000	1684.00000	1746.58151	0.00059
47.04000	1645.00000	1739.94903	0.00061
47.05000	1653.00000	1733.50739	0.00060
47.06000	1553.00000	1727.25821	0.00064
47.07000	1619.00000	1721.20241	0.00062
47.08000	1624.00000	1715.34026	0.00062
47.09000	1559.00000	1709.67155	0.00064
47.10000	1630.00000	1704.19566	0.00061
47.11000	1603.00000	1698.91164	0.00062
47.12000	1623.00000	1693.81827	0.00062
47.13000	1602.00000	1688.91414	0.00062
47.14000	1566.00000	1684.19771	0.00064
47.15000	1572.00000	1679.66734	0.00064
47.16000	1645.00000	1675.32132	0.00061
47.17000	1600.00000	1671.15797	0.00063
47.18000	1587.00000	1667.17557	0.00063
47.19000	1544.00000	1663.37251	0.00065
47.20000	1585.00000	1659.74720	0.00063
47.21000	1639.00000	1656.29818	0.00061
47.22000	1552.00000	1653.02409	0.00064
47.23000	1565.00000	1649.92375	0.00064
47.24000	1649.00000	1646.99590	0.00061
47.25000	1624.00000	1644.23958	0.00062
47.26000	1607.00000	1641.65410	0.00062
47.27000	1602.00000	1639.23889	0.00062
47.28000	1689.00000	1636.99358	0.00059
47.29000	1640.00000	1634.91798	0.00061
47.30000	1615.00000	1633.01213	0.00062
47.31000	1571.00000	1631.27629	0.00064
47.32000	1548.00000	1629.71097	0.00065
47.33000	1570.00000	1628.31698	0.00064
47.34000	1542.00000	1627.09541	0.00065
47.35000	1584.00000	1626.04706	0.00063
47.36000	1570.00000	1625.17330	0.00064
47.37000	1649.00000	1624.47643	0.00061
47.38000	1605.00000	1623.95895	0.00062
47.39000	1593.00000	1623.62170	0.00063
47.40000	1575.00000	1623.46593	0.00063
47.41000	1625.00000	1623.49566	0.00062
47.42000	1592.00000	1623.71429	0.00063
47.43000	1584.00000	1624.12513	0.00063

47.44000	1621.00000	1624.73167	0.00062
47.45000	1597.00000	1625.53738	0.00063
47.46000	1630.00000	1626.54534	0.00061
47.47000	1593.00000	1627.76206	0.00063
47.48000	1588.00000	1629.19931	0.00063
47.49000	1574.00000	1630.85660	0.00064
47.50000	1582.00000	1632.73861	0.00063
47.51000	1602.00000	1634.85097	0.00062
47.52000	1590.00000	1637.19980	0.00063
47.53000	1652.00000	1639.79147	0.00061
47.54000	1635.00000	1642.63275	0.00061
47.55000	1604.00000	1645.73051	0.00062
47.56000	1576.00000	1649.08985	0.00063
47.57000	1610.00000	1652.71839	0.00062
47.58000	1638.00000	1656.62388	0.00061
47.59000	1658.00000	1660.81367	0.00060
47.60000	1635.00000	1665.29513	0.00061
47.61000	1586.00000	1670.07544	0.00063
47.62000	1562.00000	1675.16178	0.00064
47.63000	1669.00000	1680.56124	0.00060
47.64000	1603.00000	1686.28057	0.00062
47.65000	1648.00000	1692.32609	0.00061
47.66000	1642.00000	1698.70361	0.00061
47.67000	1659.00000	1705.41822	0.00060
47.68000	1707.00000	1712.47417	0.00059
47.69000	1722.00000	1719.87459	0.00058
47.70000	1670.00000	1727.62134	0.00060
47.71000	1646.00000	1735.71470	0.00061
47.72000	1621.00000	1744.15308	0.00062
47.73000	1685.00000	1752.93273	0.00059
47.74000	1656.00000	1762.04738	0.00060
47.75000	1779.00000	1771.48788	0.00056
47.76000	1724.00000	1781.24178	0.00058
47.77000	1813.00000	1791.29296	0.00055
47.78000	1784.00000	1801.62117	0.00056
47.79000	1699.00000	1812.20166	0.00059
47.80000	1767.00000	1823.00477	0.00057
47.81000	1766.00000	1833.99558	0.00057
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47.83000	1885.00000	1856.37271	0.00053
47.84000	1916.00000	1867.65897	0.00052
47.85000	1898.00000	1878.93481	0.00053
47.86000	1883.00000	1890.13630	0.00053
47.87000	2025.00000	1901.19380	0.00049
47.88000	1965.00000	1912.03276	0.00051
47.89000	1998.00000	1922.57447	0.00050
47.90000	1935.00000	1932.73709	0.00052
47.91000	1916.00000	1942.43691	0.00052
47.92000	1992.00000	1951.58981	0.00050
47.93000	2026.00000	1960.11282	0.00049
47.94000	1986.00000	1967.92649	0.00050
47.95000	2028.00000	1974.95644	0.00049
47.96000	2034.00000	1981.13247	0.00049
47.97000	2007.00000	1986.39345	0.00050
47.98000	2108.00000	1990.69165	0.00047
47.99000	2084.00000	1993.98991	0.00048
48.00000	2061.00000	1996.26335	0.00049
48.01000	1965.00000	1997.50056	0.00051
48.02000	1980.00000	1997.70390	0.00051
48.03000	2060.00000	1996.88936	0.00049
48.04000	2094.00000	1995.08610	0.00048
48.05000	2057.00000	1992.33550	0.00049
48.06000	1960.00000	1988.69000	0.00051
48.07000	2069.00000	1984.21156	0.00048
48.08000	2027.00000	1978.96956	0.00049
48.09000	2006.00000	1973.04055	0.00050
48.10000	1999.00000	1966.51121	0.00050
48.11000	2001.00000	1959.46160	0.00050
48.12000	2015.00000	1951.97578	0.00050

48.13000	1995.00000	1944.13778	0.00050
48.14000	1917.00000	1936.02951	0.00052
48.15000	1876.00000	1927.72942	0.00053
48.16000	1931.00000	1919.31144	0.00052
48.17000	1945.00000	1910.84412	0.00051
48.18000	1816.00000	1902.39007	0.00055
48.19000	1863.00000	1894.00582	0.00054
48.20000	1869.00000	1885.74349	0.00054
48.21000	1866.00000	1877.64780	0.00054
48.22000	1875.00000	1869.73272	0.00053
48.23000	1883.00000	1862.02073	0.00053
48.24000	1884.00000	1854.54565	0.00053
48.25000	1880.00000	1847.39198	0.00053
48.26000	1786.00000	1840.53284	0.00056
48.27000	1804.00000	1833.97140	0.00055
48.28000	1855.00000	1827.71450	0.00054
48.29000	1834.00000	1821.76590	0.00055
48.30000	1801.00000	1816.12568	0.00056
48.31000	1868.00000	1810.78997	0.00054
48.32000	1806.00000	1805.75589	0.00055
48.33000	1771.00000	1801.01794	0.00056
48.34000	1809.00000	1796.56931	0.00055
48.35000	1787.00000	1792.40190	0.00056
48.36000	1861.00000	1788.50665	0.00054
48.37000	1852.00000	1784.87380	0.00054
48.38000	1811.00000	1781.49304	0.00055
48.39000	1757.00000	1778.35369	0.00057
48.40000	1808.00000	1775.44479	0.00055
48.41000	1756.00000	1772.75520	0.00057
48.42000	1744.00000	1770.27370	0.00057
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48.44000	1747.00000	1765.88985	0.00057
48.45000	1829.00000	1763.96492	0.00055
48.46000	1827.00000	1762.20235	0.00055
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48.48000	1726.00000	1759.11396	0.00058
48.49000	1773.00000	1757.76145	0.00056
48.50000	1718.00000	1756.51343	0.00058
48.51000	1755.00000	1755.32757	0.00057
48.52000	1787.00000	1754.17624	0.00056
48.53000	1709.00000	1753.25785	0.00059
48.54000	1737.00000	1752.55897	0.00058
48.55000	1756.00000	1751.96901	0.00057
48.56000	1736.00000	1751.46693	0.00058
48.57000	1715.00000	1751.04715	0.00058
48.58000	1767.00000	1750.70310	0.00057
48.59000	1769.00000	1750.42470	0.00057
48.60000	1769.00000	1750.20591	0.00057
48.61000	1780.00000	1750.07733	0.00056
48.62000	1837.00000	1750.01417	0.00054
48.63000	1726.00000	1750.01210	0.00058
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48.65000	1719.00000	1750.16409	0.00058
48.66000	1684.00000	1750.31119	0.00059
48.67000	1738.00000	1750.50135	0.00058
48.68000	1736.00000	1750.73149	0.00058
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48.71000	1741.00000	1751.63283	0.00057
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48.73000	1780.00000	1752.38241	0.00056
48.74000	1782.00000	1752.79417	0.00056
48.75000	1744.00000	1753.22738	0.00057
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48.81000	1688.00000	1756.15072	0.00059

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48.83000	1648.00000	1757.19382	0.00061
48.84000	1669.00000	1757.71843	0.00060
48.85000	1729.00000	1758.24191	0.00058
48.86000	1706.00000	1758.76170	0.00059
48.87000	1726.00000	1759.27508	0.00058
48.88000	1673.00000	1759.77902	0.00060
48.89000	1758.00000	1760.27036	0.00057
48.90000	1682.00000	1760.74564	0.00059
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48.92000	1729.00000	1761.63205	0.00058
48.93000	1743.00000	1762.03404	0.00057
48.94000	1724.00000	1762.40232	0.00058
48.95000	1731.00000	1762.73179	0.00058
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48.97000	1682.00000	1763.25369	0.00059
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48.99000	1649.00000	1763.55425	0.00061
49.00000	1729.00000	1763.60679	0.00058
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49.02000	1643.00000	1763.49886	0.00061
49.03000	1720.00000	1763.33246	0.00058
49.04000	1678.00000	1763.08892	0.00060
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49.06000	1699.00000	1762.37092	0.00059
49.07000	1715.00000	1761.89965	0.00058
49.08000	1737.00000	1761.35740	0.00058
49.09000	1683.00000	1760.74817	0.00059
49.10000	1715.00000	1760.07688	0.00058
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49.13000	1651.00000	1757.72311	0.00061
49.14000	1708.00000	1756.82815	0.00059
49.15000	1702.00000	1755.87379	0.00059
49.16000	1678.00000	1754.90146	0.00060
49.17000	1742.00000	1753.95589	0.00057
49.18000	1713.00000	1752.99545	0.00058
49.19000	1714.00000	1752.01655	0.00058
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49.22000	1708.00000	1749.01925	0.00059
49.23000	1686.00000	1747.97767	0.00059
49.24000	1673.00000	1746.91454	0.00060
49.25000	1765.00000	1745.83944	0.00057
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49.29000	1771.00000	1741.44217	0.00056
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49.44000	1729.00000	1723.83913	0.00058
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50.24000	1776.00000	1724.92216	0.00056
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50.27000	1731.00000	1726.16161	0.00058
50.28000	1744.00000	1726.07106	0.00057
50.29000	1773.00000	1725.72384	0.00056
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50.32000	1728.00000	1723.17637	0.00058
50.33000	1742.00000	1721.85227	0.00057
50.34000	1733.00000	1720.31132	0.00058
50.35000	1730.00000	1718.56928	0.00058
50.36000	1689.00000	1716.64145	0.00059
50.37000	1738.00000	1714.54918	0.00058
50.38000	1720.00000	1712.33925	0.00058
50.39000	1691.00000	1710.01247	0.00059
50.40000	1703.00000	1707.59523	0.00059
50.41000	1737.00000	1705.10823	0.00058
50.42000	1744.00000	1702.57347	0.00057
50.43000	1707.00000	1700.01213	0.00059
50.44000	1636.00000	1697.44486	0.00061
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50.50000	1649.00000	1682.69928	0.00061
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50.59000	1682.00000	1665.42649	0.00059
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53.64000	1517.00000	1561.42988	0.00066

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53.98000	1511.00000	1545.72059	0.00066
53.99000	1571.00000	1545.19993	0.00064
54.00000	1547.00000	1544.68461	0.00065
54.01000	1543.00000	1544.17473	0.00065
54.02000	1520.00000	1543.67246	0.00066
54.03000	1594.00000	1543.18451	0.00063
54.04000	1593.00000	1542.70808	0.00063
54.05000	1573.00000	1542.24358	0.00064
54.06000	1573.00000	1541.79241	0.00064
54.07000	1581.00000	1541.35548	0.00063
54.08000	1522.00000	1540.93184	0.00066
54.09000	1541.00000	1540.52524	0.00065
54.10000	1577.00000	1540.13852	0.00063
54.11000	1559.00000	1539.76034	0.00064
54.12000	1622.00000	1539.39077	0.00062
54.13000	1613.00000	1539.03578	0.00062
54.14000	1567.00000	1538.69747	0.00064
54.15000	1588.00000	1538.37302	0.00063
54.16000	1530.00000	1538.06082	0.00065
54.17000	1511.00000	1537.76238	0.00066
54.18000	1590.00000	1537.47800	0.00063
54.19000	1514.00000	1537.20738	0.00066
54.20000	1490.00000	1536.95013	0.00067
54.21000	1547.00000	1536.70584	0.00065
54.22000	1552.00000	1536.47406	0.00064
54.23000	1595.00000	1536.25436	0.00063
54.24000	1630.00000	1536.04631	0.00061
54.25000	1542.00000	1535.84953	0.00065
54.26000	1582.00000	1535.66371	0.00063
54.27000	1576.00000	1535.48863	0.00063
54.28000	1546.00000	1535.32426	0.00065
54.29000	1569.00000	1535.17089	0.00064
54.30000	1567.00000	1535.02988	0.00064
54.31000	1590.00000	1534.90228	0.00063
54.32000	1589.00000	1534.77988	0.00063
54.33000	1623.00000	1534.66658	0.00062

54.34000	1654.00000	1534.56453	0.00060
54.35000	1578.00000	1534.47535	0.00063
54.36000	1549.00000	1534.40003	0.00065
54.37000	1529.00000	1534.33993	0.00065
54.38000	1607.00000	1534.29663	0.00062
54.39000	1627.00000	1534.27196	0.00061
54.40000	1559.00000	1534.26808	0.00064
54.41000	1554.00000	1534.28710	0.00064
54.42000	1535.00000	1534.33034	0.00065
54.43000	1590.00000	1534.40084	0.00063
54.44000	1595.00000	1534.50143	0.00063
54.45000	1557.00000	1534.63490	0.00064
54.46000	1584.00000	1534.80416	0.00063
54.47000	1595.00000	1535.01217	0.00063
54.48000	1568.00000	1535.26199	0.00064
54.49000	1596.00000	1535.55670	0.00063
54.50000	1553.00000	1535.89945	0.00064
54.51000	1596.00000	1536.29336	0.00063
54.52000	1544.00000	1536.74157	0.00065
54.53000	1553.00000	1537.24725	0.00064
54.54000	1598.00000	1537.81352	0.00063
54.55000	1636.00000	1538.44266	0.00061
54.56000	1579.00000	1539.13750	0.00063
54.57000	1585.00000	1539.90087	0.00063
54.58000	1662.00000	1540.73521	0.00060
54.59000	1575.00000	1541.64254	0.00063
54.60000	1567.00000	1542.62346	0.00064
54.61000	1567.00000	1543.67920	0.00064
54.62000	1564.00000	1544.82308	0.00064
54.63000	1598.00000	1546.05474	0.00063
54.64000	1648.00000	1547.37146	0.00061
54.65000	1663.00000	1548.77405	0.00060
54.66000	1653.00000	1550.26362	0.00060
54.67000	1613.00000	1551.84106	0.00062
54.68000	1626.00000	1553.50703	0.00062
54.69000	1540.00000	1555.26227	0.00065
54.70000	1566.00000	1557.10717	0.00064
54.71000	1645.00000	1559.03811	0.00061
54.72000	1597.00000	1561.05504	0.00063
54.73000	1644.00000	1563.15768	0.00061
54.74000	1670.00000	1565.34462	0.00060
54.75000	1634.00000	1567.61390	0.00061
54.76000	1605.00000	1569.96311	0.00062
54.77000	1563.00000	1572.38943	0.00064
54.78000	1667.00000	1574.88955	0.00060
54.79000	1680.00000	1577.45963	0.00060
54.80000	1716.00000	1580.09559	0.00058
54.81000	1675.00000	1582.79367	0.00060
54.82000	1683.00000	1585.54816	0.00059
54.83000	1655.00000	1588.35331	0.00060
54.84000	1664.00000	1591.20280	0.00060
54.85000	1613.00000	1594.08859	0.00062
54.86000	1667.00000	1597.00367	0.00060
54.87000	1696.00000	1599.95339	0.00059
54.88000	1667.00000	1602.92530	0.00060
54.89000	1675.00000	1605.90888	0.00060
54.90000	1700.00000	1608.89613	0.00059
54.91000	1682.00000	1611.87917	0.00059
54.92000	1724.00000	1614.85002	0.00058
54.93000	1686.00000	1617.80062	0.00059
54.94000	1697.00000	1620.72294	0.00059
54.95000	1702.00000	1623.60905	0.00059
54.96000	1734.00000	1626.45118	0.00058
54.97000	1679.00000	1629.24192	0.00060
54.98000	1710.00000	1631.97421	0.00058
54.99000	1729.00000	1634.64035	0.00058
55.00000	1752.00000	1637.23315	0.00057
55.01000	1698.00000	1639.74727	0.00059
55.02000	1684.00000	1642.17744	0.00059

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55.07000	1729.00000	1652.92079	0.00058
55.08000	1753.00000	1654.76750	0.00057
55.09000	1776.00000	1656.50982	0.00056
55.10000	1790.00000	1658.14742	0.00056
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55.12000	1706.00000	1661.10973	0.00059
55.13000	1662.00000	1662.43585	0.00060
55.14000	1698.00000	1663.66016	0.00059
55.15000	1712.00000	1664.78748	0.00058
55.16000	1744.00000	1665.82055	0.00057
55.17000	1757.00000	1666.76016	0.00057
55.18000	1770.00000	1667.60874	0.00056
55.19000	1705.00000	1668.36932	0.00059
55.20000	1704.00000	1669.04556	0.00059
55.21000	1726.00000	1669.64353	0.00058
55.22000	1683.00000	1670.17273	0.00059
55.23000	1687.00000	1670.62383	0.00059
55.24000	1718.00000	1670.96183	0.00058
55.25000	1668.00000	1671.21232	0.00060
55.26000	1728.00000	1671.38365	0.00058
55.27000	1717.00000	1671.47670	0.00058
55.28000	1739.00000	1671.49203	0.00058
55.29000	1795.00000	1671.42993	0.00056
55.30000	1676.00000	1671.29050	0.00060
55.31000	1677.00000	1671.07334	0.00060
55.32000	1691.00000	1670.77909	0.00059
55.33000	1670.00000	1670.41215	0.00060
55.34000	1689.00000	1669.97008	0.00059
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55.36000	1719.00000	1668.86048	0.00058
55.37000	1707.00000	1668.19411	0.00059
55.38000	1717.00000	1667.45486	0.00058
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55.84000	1637.00000	1607.31417	0.00061
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55.87000	1653.00000	1604.67714	0.00060
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55.93000	1618.00000	1599.75934	0.00062
55.94000	1633.00000	1598.96977	0.00061
55.95000	1615.00000	1598.18682	0.00062
55.96000	1632.00000	1597.41029	0.00061
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56.03000	1590.00000	1592.18176	0.00063
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56.06000	1596.00000	1590.16347	0.00063
56.07000	1628.00000	1589.51763	0.00061
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56.09000	1585.00000	1588.26557	0.00063
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56.17000	1620.00000	1583.55834	0.00062
56.18000	1584.00000	1582.97521	0.00063
56.19000	1611.00000	1582.38673	0.00062
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56.27000	1534.00000	1577.31701	0.00065
56.28000	1577.00000	1576.61864	0.00063
56.29000	1568.00000	1575.88689	0.00064
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56.32000	1558.00000	1573.76592	0.00064
56.33000	1533.00000	1573.12697	0.00065
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56.37000	1512.00000	1570.73722	0.00066
56.38000	1501.00000	1570.19889	0.00067
56.39000	1477.00000	1569.69000	0.00068
56.40000	1531.00000	1569.21231	0.00065

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56.44000	1537.00000	1567.61041	0.00065
56.45000	1534.00000	1567.27416	0.00065
56.46000	1505.00000	1566.95134	0.00066
56.47000	1509.00000	1566.62961	0.00066
56.48000	1510.00000	1566.29608	0.00066
56.49000	1516.00000	1565.92854	0.00066
56.50000	1602.00000	1565.51481	0.00062
56.51000	1620.00000	1565.09446	0.00062
56.52000	1517.00000	1564.60550	0.00066
56.53000	1591.00000	1564.02120	0.00063
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56.55000	1529.00000	1562.47069	0.00065
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56.59000	1564.00000	1557.17561	0.00064
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56.63000	1547.00000	1547.94530	0.00065
56.64000	1552.00000	1544.95411	0.00064
56.65000	1536.00000	1541.69515	0.00065
56.66000	1535.00000	1538.18016	0.00065
56.67000	1484.00000	1534.42544	0.00067
56.68000	1499.00000	1530.45126	0.00067
56.69000	1536.00000	1526.28111	0.00065
56.70000	1497.00000	1521.94087	0.00067
56.71000	1526.00000	1517.45793	0.00066
56.72000	1542.00000	1512.86033	0.00065
56.73000	1455.00000	1508.17597	0.00069
56.74000	1490.00000	1503.43187	0.00067
56.75000	1503.00000	1498.65342	0.00067
56.76000	1456.00000	1493.86432	0.00069
56.77000	1470.00000	1489.08924	0.00068
56.78000	1492.00000	1484.34807	0.00067
56.79000	1511.00000	1479.65607	0.00066
56.80000	1499.00000	1475.02792	0.00067
56.81000	1513.00000	1470.47621	0.00066
56.82000	1485.00000	1466.01132	0.00067
56.83000	1459.00000	1461.64162	0.00069
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56.85000	1526.00000	1453.21242	0.00066
56.86000	1483.00000	1449.16151	0.00067
56.87000	1495.00000	1445.22301	0.00067
56.88000	1432.00000	1441.39576	0.00070
56.89000	1402.00000	1437.68292	0.00071
56.90000	1423.00000	1434.08648	0.00070
56.91000	1495.00000	1430.60287	0.00067
56.92000	1406.00000	1427.22991	0.00071
56.93000	1439.00000	1423.96544	0.00069
56.94000	1443.00000	1420.80693	0.00069
56.95000	1450.00000	1417.75160	0.00069
56.96000	1476.00000	1414.79645	0.00068
56.97000	1402.00000	1411.93833	0.00071
56.98000	1405.00000	1409.17398	0.00071
56.99000	1417.00000	1406.50008	0.00071
57.00000	1387.00000	1403.91332	0.00072
57.01000	1414.00000	1401.41040	0.00071
57.02000	1460.00000	1398.98807	0.00068
57.03000	1434.00000	1396.64318	0.00070
57.04000	1363.00000	1394.37269	0.00073
57.05000	1363.00000	1392.17369	0.00073
57.06000	1387.00000	1390.04345	0.00072
57.07000	1398.00000	1387.97942	0.00072
57.08000	1453.00000	1385.97928	0.00069
57.09000	1406.00000	1384.04103	0.00071

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57.11000	1402.00000	1380.34535	0.00071
57.12000	1453.00000	1378.58842	0.00069
57.13000	1435.00000	1376.88209	0.00070
57.14000	1341.00000	1375.22274	0.00075
57.15000	1387.00000	1373.61416	0.00072
57.16000	1458.00000	1372.05691	0.00069
57.17000	1421.00000	1370.55051	0.00070
57.18000	1359.00000	1369.09457	0.00074
57.19000	1384.00000	1367.68885	0.00072
57.20000	1436.00000	1366.33325	0.00070
57.21000	1334.00000	1365.02779	0.00075
57.22000	1342.00000	1363.77259	0.00075
57.23000	1383.00000	1362.56788	0.00072
57.24000	1390.00000	1361.41423	0.00072
57.25000	1393.00000	1360.31240	0.00072
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57.27000	1389.00000	1358.25653	0.00072
57.28000	1431.00000	1357.30223	0.00070
57.29000	1395.00000	1356.39788	0.00072
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57.31000	1351.00000	1354.73740	0.00074
57.32000	1391.00000	1353.97978	0.00072
57.33000	1382.00000	1353.26857	0.00072
57.34000	1350.00000	1352.59904	0.00074
57.35000	1372.00000	1351.96817	0.00073
57.36000	1392.00000	1351.40127	0.00072
57.37000	1394.00000	1350.89311	0.00072
57.38000	1396.00000	1350.43457	0.00072
57.39000	1322.00000	1350.02045	0.00076
57.40000	1317.00000	1349.64939	0.00076
57.41000	1382.00000	1349.31988	0.00072
57.42000	1407.00000	1349.02972	0.00071
57.43000	1366.00000	1348.77703	0.00073
57.44000	1329.00000	1348.55979	0.00075
57.45000	1346.00000	1348.37564	0.00074
57.46000	1371.00000	1348.22199	0.00073
57.47000	1400.00000	1348.09599	0.00071
57.48000	1321.00000	1347.99451	0.00076
57.49000	1377.00000	1347.91417	0.00073
57.50000	1391.00000	1347.85124	0.00072
57.51000	1300.00000	1347.80171	0.00077
57.52000	1340.00000	1347.76121	0.00075
57.53000	1318.00000	1347.72507	0.00076
57.54000	1360.00000	1347.68821	0.00074
57.55000	1320.00000	1347.64531	0.00076
57.56000	1362.00000	1347.59068	0.00073
57.57000	1360.00000	1347.51839	0.00074
57.58000	1346.00000	1347.42231	0.00074
57.59000	1298.00000	1347.29617	0.00077
57.60000	1294.00000	1347.13371	0.00077
57.61000	1323.00000	1346.92893	0.00076
57.62000	1325.00000	1346.67731	0.00075
57.63000	1357.00000	1346.37461	0.00074
57.64000	1282.00000	1346.00264	0.00078
57.65000	1317.00000	1345.56129	0.00076
57.66000	1368.00000	1345.04844	0.00073
57.67000	1348.00000	1344.46057	0.00074
57.68000	1358.00000	1343.79481	0.00074
57.69000	1369.00000	1343.04926	0.00073
57.70000	1360.00000	1342.22302	0.00074
57.71000	1320.00000	1341.31619	0.00076
57.72000	1348.00000	1340.32989	0.00074
57.73000	1377.00000	1339.26617	0.00073
57.74000	1400.00000	1338.12791	0.00071
57.75000	1283.00000	1336.91879	0.00078
57.76000	1249.00000	1335.64312	0.00080
57.77000	1297.00000	1334.30582	0.00077
57.78000	1295.00000	1332.91244	0.00077

57.79000	1346.00000	1331.47043	0.00074
57.80000	1353.00000	1329.98739	0.00074
57.81000	1338.00000	1328.45374	0.00075
57.82000	1305.00000	1326.87967	0.00077
57.83000	1298.00000	1325.27456	0.00077
57.84000	1280.00000	1323.64158	0.00078
57.85000	1285.00000	1321.97928	0.00078
57.86000	1290.00000	1320.29812	0.00078
57.87000	1279.00000	1318.60451	0.00078
57.88000	1288.00000	1316.90000	0.00078
57.89000	1247.00000	1315.18698	0.00080
57.90000	1299.00000	1313.46841	0.00077
57.91000	1306.00000	1311.74699	0.00077
57.92000	1309.00000	1310.02519	0.00076
57.93000	1274.00000	1308.30524	0.00078
57.94000	1259.00000	1306.58920	0.00079
57.95000	1261.00000	1304.87893	0.00079
57.96000	1263.00000	1303.17616	0.00079
57.97000	1282.00000	1301.48273	0.00078
57.98000	1297.00000	1299.80050	0.00077
57.99000	1290.00000	1298.12850	0.00078
58.00000	1272.00000	1296.46728	0.00079
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58.02000	1263.00000	1293.18365	0.00079
58.03000	1230.00000	1291.56280	0.00081
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58.05000	1272.00000	1288.36536	0.00079
58.06000	1306.00000	1286.78940	0.00077
58.07000	1319.00000	1285.22903	0.00076
58.08000	1275.00000	1283.68495	0.00078
58.09000	1238.00000	1282.15728	0.00081
58.10000	1278.00000	1280.64140	0.00078
58.11000	1238.00000	1279.13938	0.00081
58.12000	1231.00000	1277.65179	0.00081
58.13000	1252.00000	1276.17835	0.00080
58.14000	1263.00000	1274.71885	0.00079
58.15000	1227.00000	1273.27310	0.00081
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58.18000	1231.00000	1269.01666	0.00081
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58.84000	1221.00000	1222.44644	0.00082
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58.86000	1246.00000	1222.92786	0.00080
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59.03000	1246.00000	1226.84809	0.00080
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59.07000	1212.00000	1227.62609	0.00083
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59.10000	1237.00000	1228.28437	0.00081
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61.41000	1228.00000	1255.56764	0.00081
61.42000	1232.00000	1255.72844	0.00081
61.43000	1252.00000	1255.92687	0.00080
61.44000	1234.00000	1256.16356	0.00081
61.45000	1174.00000	1256.43901	0.00085
61.46000	1248.00000	1256.75354	0.00080
61.47000	1239.00000	1257.10727	0.00081
61.48000	1261.00000	1257.50008	0.00079
61.49000	1226.00000	1257.93165	0.00082
61.50000	1253.00000	1258.40172	0.00080
61.51000	1188.00000	1258.90908	0.00084
61.52000	1198.00000	1259.45354	0.00083
61.53000	1261.00000	1260.03349	0.00079
61.54000	1235.00000	1260.64684	0.00081
61.55000	1228.00000	1261.29147	0.00081
61.56000	1229.00000	1261.96496	0.00081
61.57000	1271.00000	1262.66453	0.00079
61.58000	1309.00000	1263.38715	0.00076
61.59000	1201.00000	1264.12947	0.00083
61.60000	1284.00000	1264.88661	0.00078
61.61000	1245.00000	1265.65408	0.00080
61.62000	1223.00000	1266.42724	0.00082
61.63000	1211.00000	1267.20087	0.00083
61.64000	1273.00000	1267.97151	0.00079
61.65000	1184.00000	1268.73400	0.00084
61.66000	1292.00000	1269.48108	0.00077
61.67000	1227.00000	1270.20633	0.00081
61.68000	1277.00000	1270.90336	0.00078
61.69000	1308.00000	1271.56563	0.00076
61.70000	1268.00000	1272.18661	0.00079
61.71000	1282.00000	1272.75980	0.00078
61.72000	1320.00000	1273.27890	0.00076
61.73000	1288.00000	1273.73840	0.00078
61.74000	1260.00000	1274.13299	0.00079
61.75000	1201.00000	1274.45247	0.00083
61.76000	1211.00000	1274.69386	0.00083
61.77000	1264.00000	1274.85402	0.00079
61.78000	1264.00000	1274.92957	0.00079
61.79000	1268.00000	1274.91770	0.00079
61.80000	1288.00000	1274.81661	0.00078
61.81000	1289.00000	1274.62547	0.00078
61.82000	1251.00000	1274.34440	0.00080
61.83000	1259.00000	1273.97446	0.00079
61.84000	1221.00000	1273.51737	0.00082
61.85000	1197.00000	1272.97535	0.00084
61.86000	1236.00000	1272.35307	0.00081
61.87000	1311.00000	1271.65645	0.00076
61.88000	1223.00000	1270.88660	0.00082
61.89000	1243.00000	1270.06370	0.00080
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62.00000	1265.00000	1259.12944	0.00079
62.01000	1216.00000	1258.13132	0.00082
62.02000	1276.00000	1257.15612	0.00078
62.03000	1246.00000	1256.20602	0.00080
62.04000	1242.00000	1255.28244	0.00081
62.05000	1258.00000	1254.39909	0.00079
62.06000	1311.00000	1253.56771	0.00076
62.07000	1329.00000	1252.77783	0.00075
62.08000	1212.00000	1252.02780	0.00083
62.09000	1264.00000	1251.32384	0.00079
62.10000	1210.00000	1250.66739	0.00083
62.11000	1185.00000	1250.05814	0.00084
62.12000	1254.00000	1249.49587	0.00080
62.13000	1249.00000	1248.98095	0.00080
62.14000	1202.00000	1248.51731	0.00083
62.15000	1212.00000	1248.10313	0.00083
62.16000	1293.00000	1247.73790	0.00077
62.17000	1248.00000	1247.42155	0.00080
62.18000	1250.00000	1247.15396	0.00080
62.19000	1291.00000	1246.93496	0.00077
62.20000	1247.00000	1246.76435	0.00080
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62.35000	1241.00000	1249.93852	0.00081
62.36000	1213.00000	1250.54556	0.00082
62.37000	1266.00000	1251.20345	0.00079
62.38000	1277.00000	1251.91262	0.00078
62.39000	1220.00000	1252.67347	0.00082
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62.41000	1235.00000	1254.35176	0.00081
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62.45000	1253.00000	1258.34299	0.00080
62.46000	1236.00000	1259.47390	0.00081
62.47000	1286.00000	1260.65798	0.00078
62.48000	1316.00000	1261.89501	0.00076
62.49000	1298.00000	1263.18471	0.00077
62.50000	1281.00000	1264.52731	0.00078
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62.52000	1320.00000	1267.36803	0.00076
62.53000	1300.00000	1268.85289	0.00077
62.54000	1351.00000	1270.38060	0.00074
62.55000	1345.00000	1271.95003	0.00074
62.56000	1316.00000	1273.55809	0.00076
62.57000	1295.00000	1275.20105	0.00077
62.58000	1343.00000	1276.87453	0.00074
62.59000	1318.00000	1278.57349	0.00076
62.60000	1290.00000	1280.29213	0.00078
62.61000	1274.00000	1282.02384	0.00078

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62.64000	1299.00000	1287.21801	0.00077
62.65000	1267.00000	1288.91688	0.00079
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62.67000	1319.00000	1292.20424	0.00076
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62.69000	1362.00000	1295.28868	0.00073
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62.71000	1386.00000	1298.06198	0.00072
62.72000	1371.00000	1299.30079	0.00073
62.73000	1285.00000	1300.42318	0.00078
62.74000	1322.00000	1301.41769	0.00076
62.75000	1351.00000	1302.27393	0.00074
62.76000	1343.00000	1302.98340	0.00074
62.77000	1326.00000	1303.53915	0.00075
62.78000	1358.00000	1303.92892	0.00074
62.79000	1312.00000	1304.15040	0.00076
62.80000	1378.00000	1304.20293	0.00073
62.81000	1365.00000	1304.08685	0.00073
62.82000	1364.00000	1303.80489	0.00073
62.83000	1309.00000	1303.36226	0.00076
62.84000	1333.00000	1302.76318	0.00075
62.85000	1327.00000	1302.01398	0.00075
62.86000	1355.00000	1301.12662	0.00074
62.87000	1358.00000	1300.11318	0.00074
62.88000	1449.00000	1298.98635	0.00069
62.89000	1280.00000	1297.75963	0.00078
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62.92000	1338.00000	1293.62181	0.00075
62.93000	1412.00000	1292.13749	0.00071
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63.13000	1225.00000	1268.40925	0.00082
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63.16000	1323.00000	1267.21088	0.00076
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63.19000	1319.00000	1266.74183	0.00076
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63.32000	1313.00000	1272.49542	0.00076
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63.57000	1393.00000	1311.42458	0.00072
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63.99000	1354.00000	1331.05860	0.00074

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64.07000	1297.00000	1313.26075	0.00077
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65.08000	1223.00000	1196.10772	0.00082
65.09000	1283.00000	1197.81110	0.00078
65.10000	1242.00000	1199.60428	0.00081
65.11000	1242.00000	1201.48903	0.00081
65.12000	1214.00000	1203.46712	0.00082
65.13000	1239.00000	1205.54023	0.00081
65.14000	1214.00000	1207.71010	0.00082
65.15000	1196.00000	1209.97838	0.00084
65.16000	1184.00000	1212.34661	0.00084
65.17000	1229.00000	1214.81623	0.00081
65.18000	1239.00000	1217.38852	0.00081
65.19000	1251.00000	1220.06462	0.00080
65.20000	1237.00000	1222.84542	0.00081
65.21000	1239.00000	1225.73160	0.00081
65.22000	1251.00000	1228.72351	0.00080
65.23000	1253.00000	1231.82119	0.00080
65.24000	1308.00000	1235.02427	0.00076
65.25000	1238.00000	1238.33194	0.00081
65.26000	1263.00000	1241.74290	0.00079
65.27000	1294.00000	1245.25527	0.00077
65.28000	1249.00000	1248.86652	0.00080
65.29000	1282.00000	1252.57347	0.00078
65.30000	1292.00000	1256.37214	0.00077
65.31000	1303.00000	1260.25774	0.00077
65.32000	1285.00000	1264.22460	0.00078
65.33000	1338.00000	1268.26609	0.00075
65.34000	1284.00000	1272.37461	0.00078
65.35000	1225.00000	1276.54151	0.00082
65.36000	1309.00000	1280.75708	0.00076
65.37000	1297.00000	1285.01056	0.00077

65.38000	1302.00000	1289.29010	0.00077
65.39000	1253.00000	1293.58285	0.00080
65.40000	1246.00000	1297.87497	0.00080
65.41000	1327.00000	1302.15163	0.00075
65.42000	1336.00000	1306.39730	0.00075
65.43000	1302.00000	1310.59579	0.00077
65.44000	1278.00000	1314.73037	0.00078
65.45000	1291.00000	1318.78398	0.00077
65.46000	1235.00000	1322.73947	0.00081
65.47000	1286.00000	1326.57976	0.00078
65.48000	1294.00000	1330.28810	0.00077
65.49000	1341.00000	1333.84832	0.00075
65.50000	1326.00000	1337.24502	0.00075
65.51000	1364.00000	1340.46381	0.00073
65.52000	1310.00000	1343.49148	0.00076
65.53000	1287.00000	1346.31618	0.00078
65.54000	1323.00000	1348.92752	0.00076
65.55000	1308.00000	1351.31664	0.00076
65.56000	1259.00000	1353.47629	0.00079
65.57000	1312.00000	1355.40071	0.00076
65.58000	1330.00000	1357.08563	0.00075
65.59000	1350.00000	1358.52812	0.00074
65.60000	1306.00000	1359.72637	0.00077
65.61000	1318.00000	1360.67933	0.00076
65.62000	1254.00000	1361.38687	0.00080
65.63000	1315.00000	1361.85197	0.00076
65.64000	1331.00000	1362.07163	0.00075
65.65000	1316.00000	1362.04320	0.00076
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65.67000	1314.00000	1361.32780	0.00076
65.68000	1319.00000	1360.64148	0.00076
65.69000	1359.00000	1359.73011	0.00074
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65.71000	1326.00000	1357.24399	0.00075
65.72000	1326.00000	1355.67535	0.00075
65.73000	1281.00000	1353.89411	0.00078
65.74000	1310.00000	1351.90403	0.00076
65.75000	1329.00000	1349.70938	0.00075
65.76000	1299.00000	1347.31513	0.00077
65.77000	1306.00000	1344.72699	0.00077
65.78000	1311.00000	1341.95161	0.00076
65.79000	1280.00000	1338.99661	0.00078
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65.82000	1336.00000	1329.14594	0.00075
65.83000	1322.00000	1325.56936	0.00076
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65.87000	1325.00000	1310.15278	0.00075
65.88000	1259.00000	1306.09319	0.00079
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65.93000	1243.00000	1285.30763	0.00080
65.94000	1290.00000	1281.15337	0.00078
65.95000	1250.00000	1277.03072	0.00080
65.96000	1237.00000	1272.95121	0.00081
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65.99000	1217.00000	1261.07303	0.00082
66.00000	1262.00000	1257.26272	0.00079
66.01000	1216.00000	1253.53897	0.00082
66.02000	1214.00000	1249.90735	0.00082
66.03000	1238.00000	1246.37248	0.00081
66.04000	1226.00000	1242.94013	0.00082
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66.06000	1276.00000	1236.39629	0.00078

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66.08000	1191.00000	1230.27951	0.00084
66.09000	1197.00000	1227.37189	0.00084
66.10000	1203.00000	1224.58333	0.00083
66.11000	1228.00000	1221.95044	0.00081
66.12000	1179.00000	1219.44295	0.00085
66.13000	1205.00000	1217.05366	0.00083
66.14000	1247.00000	1214.78165	0.00080
66.15000	1184.00000	1212.62697	0.00084
66.16000	1189.00000	1210.58916	0.00084
66.17000	1172.00000	1208.66746	0.00085
66.18000	1151.00000	1206.86094	0.00087
66.19000	1224.00000	1205.16861	0.00082
66.20000	1166.00000	1203.58936	0.00086
66.21000	1184.00000	1202.12204	0.00084
66.22000	1229.00000	1200.76543	0.00081
66.23000	1155.00000	1199.51826	0.00087
66.24000	1144.00000	1198.37925	0.00087
66.25000	1179.00000	1197.34706	0.00085
66.26000	1213.00000	1196.42032	0.00082
66.27000	1157.00000	1195.59759	0.00086
66.28000	1181.00000	1194.87704	0.00085
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66.30000	1124.00000	1193.74046	0.00089
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66.32000	1186.00000	1193.00281	0.00084
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66.34000	1176.00000	1192.64930	0.00085
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66.36000	1207.00000	1192.66412	0.00083
66.37000	1219.00000	1192.81135	0.00082
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66.41000	1178.00000	1194.28969	0.00085
66.42000	1167.00000	1194.87085	0.00086
66.43000	1161.00000	1195.53312	0.00086
66.44000	1179.00000	1196.27463	0.00085
66.45000	1170.00000	1197.09337	0.00085
66.46000	1192.00000	1197.98727	0.00084
66.47000	1147.00000	1198.95411	0.00087
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66.83000	1235.00000	1259.48290	0.00081
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67.17000	1270.00000	1292.43023	0.00079
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67.44000	1225.00000	1221.36543	0.00082

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67.65000	1223.00000	1163.64703	0.00082
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68.44000	1159.00000	1137.88745	0.00086
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68.63000	1163.00000	1155.80479	0.00086
68.64000	1165.00000	1156.67324	0.00086
68.65000	1114.00000	1157.50416	0.00090
68.66000	1185.00000	1158.29080	0.00084
68.67000	1158.00000	1159.02603	0.00086
68.68000	1122.00000	1159.70248	0.00089
68.69000	1165.00000	1160.31253	0.00086
68.70000	1155.00000	1160.84845	0.00087
68.71000	1136.00000	1161.30249	0.00088
68.72000	1141.00000	1161.66683	0.00088
68.73000	1154.00000	1161.93360	0.00087
68.74000	1159.00000	1162.09354	0.00086
68.75000	1208.00000	1162.13936	0.00083
68.76000	1181.00000	1162.08348	0.00085
68.77000	1160.00000	1161.91511	0.00086
68.78000	1169.00000	1161.62595	0.00086
68.79000	1198.00000	1161.21304	0.00083
68.80000	1162.00000	1160.67501	0.00086
68.81000	1180.00000	1160.01166	0.00085
68.82000	1179.00000	1159.22395	0.00085

68.83000	1177.00000	1158.31396	0.00085
68.84000	1149.00000	1157.28484	0.00087
68.85000	1096.00000	1156.14076	0.00091
68.86000	1167.00000	1154.88678	0.00086
68.87000	1147.00000	1153.52873	0.00087
68.88000	1186.00000	1152.07311	0.00084
68.89000	1176.00000	1150.52690	0.00085
68.90000	1224.00000	1148.89749	0.00082
68.91000	1176.00000	1147.19245	0.00085
68.92000	1190.00000	1145.41951	0.00084
68.93000	1187.00000	1143.58633	0.00084
68.94000	1136.00000	1141.70049	0.00088
68.95000	1114.00000	1139.76934	0.00090
68.96000	1103.00000	1137.79998	0.00091
68.97000	1153.00000	1135.79916	0.00087
68.98000	1120.00000	1133.77326	0.00089
68.99000	1082.00000	1131.72827	0.00092
69.00000	1204.00000	1129.66977	0.00083
69.01000	1077.00000	1127.60290	0.00093
69.02000	1098.00000	1125.53243	0.00091
69.03000	1111.00000	1123.46271	0.00090
69.04000	1105.00000	1121.39770	0.00090
69.05000	1121.00000	1119.34096	0.00089
69.06000	1069.00000	1117.29562	0.00094
69.07000	1117.00000	1115.26431	0.00090
69.08000	1109.00000	1113.24856	0.00090
69.09000	1124.00000	1111.25129	0.00089
69.10000	1113.00000	1109.28281	0.00090
69.11000	1089.00000	1107.34000	0.00092
69.12000	1085.00000	1105.42330	0.00092
69.13000	1118.00000	1103.53376	0.00089
69.14000	1147.00000	1101.67078	0.00087
69.15000	1114.00000	1099.83455	0.00090
69.16000	1102.00000	1098.04042	0.00091
69.17000	1122.00000	1096.28455	0.00089
69.18000	1140.00000	1094.56411	0.00088
69.19000	1130.00000	1092.87959	0.00088
69.20000	1103.00000	1091.23156	0.00091
69.21000	1146.00000	1089.62056	0.00087
69.22000	1141.00000	1088.04698	0.00088
69.23000	1106.00000	1086.51110	0.00090
69.24000	1047.00000	1085.01309	0.00096
69.25000	1149.00000	1083.55297	0.00087
69.26000	1108.00000	1082.13066	0.00090
69.27000	1144.00000	1080.74594	0.00087
69.28000	1077.00000	1079.39846	0.00093
69.29000	1159.00000	1078.08766	0.00086
69.30000	1084.00000	1076.81275	0.00092
69.31000	1123.00000	1075.57258	0.00089
69.32000	1052.00000	1074.36517	0.00095
69.33000	1118.00000	1073.18712	0.00089
69.34000	1080.00000	1072.02787	0.00093
69.35000	1117.00000	1070.88330	0.00090
69.36000	1114.00000	1069.82421	0.00090
69.37000	1087.00000	1068.81310	0.00092
69.38000	1111.00000	1067.83708	0.00090
69.39000	1134.00000	1066.89524	0.00088
69.40000	1045.00000	1065.98694	0.00096
69.41000	1072.00000	1065.11163	0.00093
69.42000	1087.00000	1064.26871	0.00092
69.43000	1082.00000	1063.45762	0.00092
69.44000	1098.00000	1062.67773	0.00091
69.45000	1098.00000	1061.92841	0.00091
69.46000	1103.00000	1061.20901	0.00091
69.47000	1144.00000	1060.51882	0.00087
69.48000	1135.00000	1059.85701	0.00088
69.49000	1096.00000	1059.22220	0.00091
69.50000	1066.00000	1058.61115	0.00094
69.51000	1042.00000	1058.02490	0.00096

69.52000	1160.00000	1057.48112	0.00086
69.53000	1131.00000	1056.96678	0.00088
69.54000	1111.00000	1056.47946	0.00090
69.55000	1134.00000	1056.01868	0.00088
69.56000	1095.00000	1055.58387	0.00091
69.57000	1081.00000	1055.17405	0.00093
69.58000	1115.00000	1054.78724	0.00090
69.59000	1172.00000	1054.42498	0.00085
69.60000	1140.00000	1054.09791	0.00088
69.61000	1092.00000	1053.79797	0.00092
69.62000	1050.00000	1053.52376	0.00095
69.63000	1103.00000	1053.27493	0.00091
69.64000	1030.00000	1053.05121	0.00097
69.65000	1047.00000	1052.85222	0.00096
69.66000	1065.00000	1052.67707	0.00094
69.67000	1101.00000	1052.52496	0.00091
69.68000	1129.00000	1052.40002	0.00089
69.69000	1087.00000	1052.30268	0.00092
69.70000	1061.00000	1052.23046	0.00094
69.71000	1037.00000	1052.18277	0.00096
69.72000	1071.00000	1052.15935	0.00093
69.73000	1111.00000	1052.15998	0.00090
69.74000	1088.00000	1052.18438	0.00092
69.75000	1097.00000	1052.23221	0.00091
69.76000	1127.00000	1052.30311	0.00089
69.77000	1072.00000	1052.39662	0.00093
69.78000	1060.00000	1052.51224	0.00094
69.79000	1137.00000	1052.64937	0.00088
69.80000	1121.00000	1052.80728	0.00089
69.81000	1079.00000	1052.98510	0.00093
69.82000	1114.00000	1053.18162	0.00090
69.83000	1088.00000	1053.39467	0.00092
69.84000	1030.00000	1053.62186	0.00097
69.85000	1069.00000	1053.86896	0.00094
69.86000	1021.00000	1054.13897	0.00098
69.87000	1157.00000	1054.42537	0.00086
69.88000	1068.00000	1054.72579	0.00094
69.89000	1014.00000	1055.03893	0.00099
69.90000	1095.00000	1055.36348	0.00091
69.91000	1065.00000	1055.69806	0.00094
69.92000	1068.00000	1056.04123	0.00094
69.93000	1069.00000	1056.39153	0.00094
69.94000	1095.00000	1056.74747	0.00091
69.95000	1084.00000	1057.10756	0.00092
69.96000	1123.00000	1057.47028	0.00089
69.97000	1063.00000	1057.83416	0.00094
69.98000	1083.00000	1058.19773	0.00092
69.99000	1096.00000	1058.55961	0.00091
70.00000	1081.00000	1058.91847	0.00093
70.01000	1088.00000	1059.27308	0.00092
70.02000	1084.00000	1059.62231	0.00092
70.03000	1091.00000	1059.96511	0.00092
70.04000	1054.00000	1060.30058	0.00095
70.05000	1078.00000	1060.62789	0.00093
70.06000	1072.00000	1060.94611	0.00093
70.07000	1116.00000	1061.25420	0.00090
70.08000	1088.00000	1061.55331	0.00092
70.09000	1112.00000	1061.84655	0.00090
70.10000	1093.00000	1062.13061	0.00091
70.11000	1091.00000	1062.40414	0.00092
70.12000	1104.00000	1062.66317	0.00091
70.13000	1076.00000	1062.90689	0.00093
70.14000	1075.00000	1063.16932	0.00093
70.15000	1082.00000	1063.43407	0.00092
70.16000	1078.00000	1063.69702	0.00093
70.17000	1062.00000	1063.95952	0.00094
70.18000	1100.00000	1064.22305	0.00091
70.19000	1126.00000	1064.48919	0.00089
70.20000	1121.00000	1064.75961	0.00089

70.21000	1160.00000	1065.03600	0.00086
70.22000	1134.00000	1065.32008	0.00088
70.23000	1085.00000	1065.61356	0.00092
70.24000	1081.00000	1065.91817	0.00093
70.25000	1053.00000	1066.23558	0.00095
70.26000	1074.00000	1066.56742	0.00093
70.27000	1082.00000	1066.91525	0.00092
70.28000	1138.00000	1067.28045	0.00088
70.29000	1083.00000	1067.66420	0.00092
70.30000	1088.00000	1068.06674	0.00092
70.31000	1072.00000	1068.48868	0.00093
70.32000	1078.00000	1068.93857	0.00093
70.33000	1111.00000	1069.41541	0.00090
70.34000	1104.00000	1069.91783	0.00091
70.35000	1098.00000	1070.45333	0.00091
70.36000	1068.00000	1071.01893	0.00094
70.37000	1081.00000	1071.61464	0.00093
70.38000	1091.00000	1072.24137	0.00092
70.39000	1061.00000	1072.89991	0.00094
70.40000	1071.00000	1073.59098	0.00093
70.41000	1092.00000	1074.31511	0.00092
70.42000	1072.00000	1075.07262	0.00093
70.43000	1120.00000	1075.86349	0.00089
70.44000	1114.00000	1076.68670	0.00090
70.45000	1092.00000	1077.54054	0.00092
70.46000	1087.00000	1078.43133	0.00092
70.47000	1068.00000	1079.36766	0.00094
70.48000	1097.00000	1080.34211	0.00091
70.49000	1063.00000	1081.35247	0.00094
70.50000	1112.00000	1082.39829	0.00090
70.51000	1074.00000	1083.47908	0.00093
70.52000	1035.00000	1084.59412	0.00097
70.53000	1095.00000	1085.74252	0.00091
70.54000	1091.00000	1086.92431	0.00092
70.55000	1087.00000	1088.13836	0.00092
70.56000	1046.00000	1089.38291	0.00096
70.57000	1088.00000	1090.65636	0.00092
70.58000	1036.00000	1091.95699	0.00097
70.59000	1062.00000	1093.28284	0.00094
70.60000	1065.00000	1094.63169	0.00094
70.61000	1126.00000	1096.00113	0.00089
70.62000	1111.00000	1097.38847	0.00090
70.63000	1122.00000	1098.79076	0.00089
70.64000	1090.00000	1100.20482	0.00092
70.65000	1051.00000	1101.62719	0.00095
70.66000	1093.00000	1103.05418	0.00091
70.67000	1083.00000	1104.48181	0.00092
70.68000	1026.00000	1105.90590	0.00097
70.69000	1080.00000	1107.32201	0.00093
70.70000	1064.00000	1108.72549	0.00094
70.71000	1069.00000	1110.11150	0.00094
70.72000	1005.00000	1111.47500	0.00100
70.73000	1056.00000	1112.81084	0.00095
70.74000	1095.00000	1114.11372	0.00091
70.75000	1047.00000	1115.37828	0.00096
70.76000	1130.00000	1116.59912	0.00088
70.77000	1119.00000	1117.77087	0.00089
70.78000	1115.00000	1118.88822	0.00090
70.79000	1138.00000	1119.94598	0.00088
70.80000	1084.00000	1120.93914	0.00092
70.81000	1126.00000	1121.86295	0.00089
70.82000	1101.00000	1122.71295	0.00091
70.83000	1080.00000	1123.48505	0.00093
70.84000	1069.00000	1124.17561	0.00094
70.85000	1069.00000	1124.78146	0.00094
70.86000	1071.00000	1125.29995	0.00093
70.87000	1094.00000	1125.72902	0.00091
70.88000	1126.00000	1126.06724	0.00089
70.89000	1098.00000	1126.31379	0.00091

70.90000	1107.00000	1126.46852	0.00090
70.91000	1097.00000	1126.53194	0.00091
70.92000	1102.00000	1126.50521	0.00091
70.93000	1118.00000	1126.39012	0.00089
70.94000	1135.00000	1126.18906	0.00088
70.95000	1120.00000	1125.90501	0.00089
70.96000	1129.00000	1125.54145	0.00089
70.97000	1080.00000	1125.10233	0.00093
70.98000	1104.00000	1124.59202	0.00091
70.99000	1104.00000	1124.01522	0.00091
71.00000	1096.00000	1123.37691	0.00091
71.01000	1091.00000	1122.68227	0.00092
71.02000	1081.00000	1121.93663	0.00093
71.03000	1071.00000	1121.14541	0.00093
71.04000	1045.00000	1120.31402	0.00096
71.05000	1045.00000	1119.44784	0.00096
71.06000	1098.00000	1118.55216	0.00091
71.07000	1070.00000	1117.63214	0.00093
71.08000	1125.00000	1116.69273	0.00089
71.09000	1087.00000	1115.73872	0.00092
71.10000	1032.00000	1114.77460	0.00097
71.11000	1067.00000	1113.80466	0.00094
71.12000	1061.00000	1112.83286	0.00094
71.13000	1072.00000	1111.86292	0.00093
71.14000	1058.00000	1110.89823	0.00095
71.15000	1097.00000	1109.94191	0.00091
71.16000	1078.00000	1108.99679	0.00093
71.17000	1084.00000	1108.06540	0.00092
71.18000	1054.00000	1107.14998	0.00095
71.19000	1038.00000	1106.25249	0.00096
71.20000	1069.00000	1105.37466	0.00094
71.21000	1064.00000	1104.51830	0.00094
71.22000	1071.00000	1103.68460	0.00093
71.23000	1087.00000	1102.87453	0.00092
71.24000	1090.00000	1102.08894	0.00092
71.25000	1051.00000	1101.32851	0.00095
71.26000	1011.00000	1100.59375	0.00099
71.27000	1050.00000	1099.88501	0.00095
71.28000	1041.00000	1099.20249	0.00096
71.29000	1068.00000	1098.54624	0.00094
71.30000	1018.00000	1097.91617	0.00098
71.31000	1029.00000	1097.31198	0.00097
71.32000	1087.00000	1096.73330	0.00092
71.33000	1062.00000	1096.18057	0.00094
71.34000	1049.00000	1095.65352	0.00095
71.35000	1043.00000	1095.15115	0.00096
71.36000	1095.00000	1094.67280	0.00091
71.37000	1061.00000	1094.21783	0.00094
71.38000	1057.00000	1093.78552	0.00095
71.39000	1077.00000	1093.37512	0.00093
71.40000	1045.00000	1092.98578	0.00096
71.41000	1080.00000	1092.61661	0.00093
71.42000	1114.00000	1092.26660	0.00090
71.43000	1064.00000	1091.93454	0.00094
71.44000	1079.00000	1091.61849	0.00093
71.45000	1072.00000	1091.31672	0.00093
71.46000	1026.00000	1091.03478	0.00097
71.47000	1077.00000	1090.77158	0.00093
71.48000	1089.00000	1090.52328	0.00092
71.49000	1097.00000	1090.28841	0.00091
71.50000	1095.00000	1090.06634	0.00091
71.51000	1082.00000	1089.85695	0.00092
71.52000	1096.00000	1089.65896	0.00091
71.53000	1057.00000	1089.47151	0.00095
71.54000	1041.00000	1089.29390	0.00096
71.55000	1080.00000	1089.12551	0.00093
71.56000	1045.00000	1088.96573	0.00096
71.57000	1064.00000	1088.81403	0.00094
71.58000	1093.00000	1088.66994	0.00091

71.59000	1084.00000	1088.53304	0.00092
71.60000	1081.00000	1088.40295	0.00093
71.61000	1066.00000	1088.27936	0.00094
71.62000	1085.00000	1088.16201	0.00092
71.63000	1085.00000	1088.05071	0.00092
71.64000	1044.00000	1087.94530	0.00096
71.65000	1078.00000	1087.84570	0.00093
71.66000	1122.00000	1087.75187	0.00089
71.67000	1091.00000	1087.66379	0.00092
71.68000	1055.00000	1087.58150	0.00095
71.69000	1075.00000	1087.50500	0.00093
71.70000	1093.00000	1087.43428	0.00091
71.71000	1097.00000	1087.36926	0.00091
71.72000	1054.00000	1087.30968	0.00095
71.73000	1072.00000	1087.25480	0.00093
71.74000	1110.00000	1087.20294	0.00090
71.75000	1122.00000	1087.14848	0.00089
71.76000	1131.00000	1087.08581	0.00088
71.77000	1106.00000	1087.04763	0.00090
71.78000	1086.00000	1087.04740	0.00092
71.79000	1070.00000	1087.06256	0.00093
71.80000	1060.00000	1087.08898	0.00094
71.81000	1071.00000	1087.12685	0.00093
71.82000	1088.00000	1087.17602	0.00092
71.83000	1082.00000	1087.23587	0.00092
71.84000	1072.00000	1087.30864	0.00093
71.85000	1077.00000	1087.39851	0.00093
71.86000	1085.00000	1087.49863	0.00092
71.87000	1128.00000	1087.60534	0.00089
71.88000	1086.00000	1087.73707	0.00092
71.89000	1076.00000	1087.90040	0.00093
71.90000	1027.00000	1088.08435	0.00097
71.91000	1050.00000	1088.28710	0.00095
71.92000	1050.00000	1088.50906	0.00095
71.93000	1147.00000	1088.75071	0.00087
71.94000	1074.00000	1089.01224	0.00093
71.95000	1145.00000	1089.29420	0.00087
71.96000	1144.00000	1089.59935	0.00087
71.97000	1090.00000	1089.92684	0.00092
71.98000	1095.00000	1090.27677	0.00091
71.99000	1107.00000	1090.64952	0.00090
72.00000	1099.00000	1091.04547	0.00091
72.01000	1014.00000	1091.46541	0.00099
72.02000	1069.00000	1091.90964	0.00094
72.03000	1071.00000	1092.37831	0.00093
72.04000	1134.00000	1092.87164	0.00088
72.05000	1103.00000	1093.38982	0.00091
72.06000	1083.00000	1093.93297	0.00092
72.07000	1084.00000	1094.50108	0.00092
72.08000	1055.00000	1095.09399	0.00095
72.09000	1079.00000	1095.71122	0.00093
72.10000	1060.00000	1096.35140	0.00094
72.11000	1057.00000	1097.01125	0.00095
72.12000	1108.00000	1097.69194	0.00090
72.13000	1109.00000	1098.41295	0.00090
72.14000	1163.00000	1099.16210	0.00086
72.15000	1095.00000	1099.93558	0.00091
72.16000	1118.00000	1100.73266	0.00089
72.17000	1093.00000	1101.55249	0.00091
72.18000	1094.00000	1102.39407	0.00091
72.19000	1120.00000	1103.25619	0.00089
72.20000	1099.00000	1104.13748	0.00091
72.21000	1175.00000	1105.03633	0.00085
72.22000	1130.00000	1105.95094	0.00088
72.23000	1062.00000	1106.87926	0.00094
72.24000	1071.00000	1107.81900	0.00093
72.25000	1092.00000	1108.76763	0.00092
72.26000	1106.00000	1109.72239	0.00090
72.27000	1096.00000	1110.68023	0.00091

72.28000	1102.00000	1111.63789	0.00091
72.29000	1131.00000	1112.59186	0.00088
72.30000	1176.00000	1113.53840	0.00085
72.31000	1118.00000	1114.47359	0.00089
72.32000	1078.00000	1115.39331	0.00093
72.33000	1119.00000	1116.29328	0.00089
72.34000	1144.00000	1117.16912	0.00087
72.35000	1107.00000	1118.01635	0.00090
72.36000	1150.00000	1118.83045	0.00087
72.37000	1131.00000	1119.60693	0.00088
72.38000	1103.00000	1120.34132	0.00091
72.39000	1119.00000	1121.02926	0.00089
72.40000	1128.00000	1121.66654	0.00089
72.41000	1163.00000	1122.24916	0.00086
72.42000	1182.00000	1122.77335	0.00085
72.43000	1163.00000	1123.23562	0.00086
72.44000	1149.00000	1123.63278	0.00087
72.45000	1197.00000	1123.96195	0.00084
72.46000	1182.00000	1124.22055	0.00085
72.47000	1175.00000	1124.40630	0.00085
72.48000	1077.00000	1124.51715	0.00093
72.49000	1129.00000	1124.55067	0.00089
72.50000	1141.00000	1124.50101	0.00088
72.51000	1125.00000	1124.36600	0.00089
72.52000	1133.00000	1124.18364	0.00088
72.53000	1135.00000	1123.93653	0.00088
72.54000	1159.00000	1123.62386	0.00086
72.55000	1139.00000	1123.24190	0.00088
72.56000	1150.00000	1122.79255	0.00087
72.57000	1148.00000	1122.27796	0.00087
72.58000	1118.00000	1121.70053	0.00089
72.59000	1193.00000	1121.06287	0.00084
72.60000	1143.00000	1120.36773	0.00087
72.61000	1148.00000	1119.61805	0.00087
72.62000	1114.00000	1118.81685	0.00090
72.63000	1162.00000	1117.96726	0.00086
72.64000	1149.00000	1117.07245	0.00087
72.65000	1088.00000	1116.13567	0.00092
72.66000	1144.00000	1115.16015	0.00087
72.67000	1205.00000	1114.14915	0.00083
72.68000	1137.00000	1113.10587	0.00088
72.69000	1147.00000	1112.03334	0.00087
72.70000	1128.00000	1110.93435	0.00089
72.71000	1153.00000	1109.81002	0.00087
72.72000	1106.00000	1108.66306	0.00090
72.73000	1146.00000	1107.51295	0.00087
72.74000	1155.00000	1106.35464	0.00087
72.75000	1138.00000	1105.18861	0.00088
72.76000	1158.00000	1104.01789	0.00086
72.77000	1103.00000	1102.84506	0.00091
72.78000	1056.00000	1101.67218	0.00095
72.79000	1086.00000	1100.50558	0.00092
72.80000	1124.00000	1099.35479	0.00089
72.81000	1048.00000	1098.21718	0.00095
72.82000	1101.00000	1097.09469	0.00091
72.83000	1090.00000	1095.99007	0.00092
72.84000	1114.00000	1094.90594	0.00090
72.85000	1129.00000	1093.84473	0.00089
72.86000	1123.00000	1092.80867	0.00089
72.87000	1181.00000	1091.79984	0.00085
72.88000	1157.00000	1090.82006	0.00086
72.89000	1079.00000	1089.87096	0.00093
72.90000	1087.00000	1088.95396	0.00092
72.91000	1137.00000	1088.07023	0.00088
72.92000	1111.00000	1087.22073	0.00090
72.93000	1073.00000	1086.40610	0.00093
72.94000	1133.00000	1085.62668	0.00088
72.95000	1090.00000	1084.88308	0.00092
72.96000	1085.00000	1084.17653	0.00092

72.97000	1080.00000	1083.50613	0.00093
72.98000	1123.00000	1082.87138	0.00089
72.99000	1126.00000	1082.27173	0.00089
73.00000	1095.00000	1081.70636	0.00091
73.01000	1074.00000	1081.17419	0.00093
73.02000	1078.00000	1080.67416	0.00093
73.03000	1067.00000	1080.20333	0.00094
73.04000	1056.00000	1079.75931	0.00095
73.05000	1066.00000	1079.35266	0.00094
73.06000	1095.00000	1078.97782	0.00091
73.07000	1121.00000	1078.62983	0.00089
73.08000	1038.00000	1078.30754	0.00096
73.09000	1030.00000	1078.00884	0.00097
73.10000	1047.00000	1077.73115	0.00096
73.11000	1060.00000	1077.47122	0.00094
73.12000	1081.00000	1077.22367	0.00093
73.13000	1037.00000	1076.99071	0.00096
73.14000	1119.00000	1076.79483	0.00089
73.15000	1103.00000	1076.61800	0.00091
73.16000	1025.00000	1076.45551	0.00098
73.17000	1055.00000	1076.30604	0.00095
73.18000	1094.00000	1076.16834	0.00091
73.19000	1090.00000	1076.04123	0.00092
73.20000	1076.00000	1075.92364	0.00093
73.21000	1110.00000	1075.81453	0.00090
73.22000	1083.00000	1075.71297	0.00092
73.23000	1064.00000	1075.61809	0.00094
73.24000	1092.00000	1075.52910	0.00092
73.25000	1102.00000	1075.44528	0.00091
73.26000	1034.00000	1075.36599	0.00097
73.27000	1041.00000	1075.29062	0.00096
73.28000	1070.00000	1075.21863	0.00093
73.29000	1079.00000	1075.14952	0.00093
73.30000	1048.00000	1075.08282	0.00095
73.31000	1102.00000	1075.01808	0.00091
73.32000	1061.00000	1074.95483	0.00094
73.33000	1093.00000	1074.89258	0.00091
73.34000	1083.00000	1074.83065	0.00092
73.35000	1090.00000	1074.76771	0.00092
73.36000	1121.00000	1074.70237	0.00089
73.37000	1107.00000	1074.63942	0.00090
73.38000	1066.00000	1074.58068	0.00094
73.39000	1083.00000	1074.52215	0.00092
73.40000	1062.00000	1074.46264	0.00094
73.41000	1032.00000	1074.40162	0.00097
73.42000	1076.00000	1074.33853	0.00093
73.43000	1100.00000	1074.27272	0.00091
73.44000	1102.00000	1074.20342	0.00091
73.45000	1119.00000	1074.12980	0.00089
73.46000	1073.00000	1074.05098	0.00093
73.47000	1092.00000	1073.96568	0.00092
73.48000	1076.00000	1073.87210	0.00093
73.49000	1079.00000	1073.76861	0.00093
73.50000	1036.00000	1073.65814	0.00097
73.51000	1140.00000	1073.53913	0.00088
73.52000	1122.00000	1073.40822	0.00089
73.53000	1111.00000	1073.26363	0.00090
73.54000	1113.00000	1073.10381	0.00090
73.55000	1140.00000	1072.92721	0.00088
73.56000	1089.00000	1072.73232	0.00092
73.57000	1106.00000	1072.51764	0.00090
73.58000	1090.00000	1072.28176	0.00092
73.59000	1105.00000	1072.02340	0.00090
73.60000	1142.00000	1071.74142	0.00088
73.61000	1092.00000	1071.43487	0.00092
73.62000	1042.00000	1071.10300	0.00096
73.63000	1125.00000	1070.74534	0.00089
73.64000	1113.00000	1070.36166	0.00090
73.65000	1087.00000	1069.95207	0.00092

73.66000	1113.00000	1069.51694	0.00090
73.67000	1060.00000	1069.05699	0.00094
73.68000	1066.00000	1068.57324	0.00094
73.69000	1066.00000	1068.06702	0.00094
73.70000	1041.00000	1067.53995	0.00096
73.71000	1123.00000	1066.99393	0.00089
73.72000	1112.00000	1066.43109	0.00090
73.73000	1084.00000	1065.85378	0.00092
73.74000	1082.00000	1065.26453	0.00092
73.75000	1082.00000	1064.66599	0.00092
73.76000	1066.00000	1064.06094	0.00094
73.77000	1057.00000	1063.45218	0.00095
73.78000	1078.00000	1062.84258	0.00093
73.79000	1089.00000	1062.23496	0.00092
73.80000	1087.00000	1061.63212	0.00092
73.81000	1024.00000	1061.03676	0.00098
73.82000	1029.00000	1060.45150	0.00097
73.83000	1088.00000	1059.87883	0.00092
73.84000	1081.00000	1059.32112	0.00093
73.85000	1094.00000	1058.78056	0.00091
73.86000	1063.00000	1058.25921	0.00094
73.87000	1106.00000	1057.75893	0.00090
73.88000	1065.00000	1057.28144	0.00094
73.89000	1062.00000	1056.82829	0.00094
73.90000	1089.00000	1056.40085	0.00092
73.91000	1103.00000	1056.00035	0.00091
73.92000	1042.00000	1055.62784	0.00096
73.93000	1040.00000	1055.28424	0.00096
73.94000	1026.00000	1054.97033	0.00097
73.95000	1018.00000	1054.68678	0.00098
73.96000	1047.00000	1054.43410	0.00096
73.97000	1056.00000	1054.21271	0.00095
73.98000	1048.00000	1054.02295	0.00095
73.99000	1122.00000	1053.86503	0.00089
74.00000	1050.00000	1053.73910	0.00095
74.01000	1071.00000	1053.64524	0.00093
74.02000	1065.00000	1053.58344	0.00094
74.03000	1032.00000	1053.55365	0.00097
74.04000	1018.00000	1053.55576	0.00098
74.05000	1011.00000	1053.58961	0.00099
74.06000	1086.00000	1053.65500	0.00092
74.07000	1050.00000	1053.75169	0.00095
74.08000	1051.00000	1053.87942	0.00095
74.09000	1010.00000	1054.03787	0.00099
74.10000	1029.00000	1054.22673	0.00097
74.11000	1005.00000	1054.44565	0.00100
74.12000	1003.00000	1054.69424	0.00100
74.13000	999.00000	1054.97212	0.00100
74.14000	1021.00000	1055.27886	0.00098
74.15000	996.00000	1055.61403	0.00100
74.16000	1085.00000	1055.97719	0.00092
74.17000	1026.00000	1056.36784	0.00097
74.18000	1056.00000	1056.78549	0.00095
74.19000	1040.00000	1057.22962	0.00096
74.20000	1074.00000	1057.69968	0.00093
74.21000	1077.00000	1058.19510	0.00093
74.22000	1080.00000	1058.71526	0.00093
74.23000	1052.00000	1059.25955	0.00095
74.24000	1083.00000	1059.82727	0.00092
74.25000	1080.00000	1060.41772	0.00093
74.26000	1079.00000	1061.03013	0.00093
74.27000	1052.00000	1061.66370	0.00095
74.28000	1035.00000	1062.31756	0.00097
74.29000	1061.00000	1062.99080	0.00094
74.30000	1082.00000	1063.68244	0.00092
74.31000	1031.00000	1064.39144	0.00097
74.32000	1050.00000	1065.11668	0.00095
74.33000	1064.00000	1065.85696	0.00094
74.34000	1099.00000	1066.61103	0.00091

74.35000	1041.00000	1067.37748	0.00096
74.36000	1060.00000	1068.15476	0.00094
74.37000	1111.00000	1068.94126	0.00090
74.38000	1100.00000	1069.73634	0.00091
74.39000	1093.00000	1070.53820	0.00091
74.40000	1020.00000	1071.34475	0.00098
74.41000	1066.00000	1072.15409	0.00094
74.42000	1105.00000	1072.96433	0.00090
74.43000	1064.00000	1073.77350	0.00094
74.44000	1041.00000	1074.57955	0.00096
74.45000	1044.00000	1075.38036	0.00096
74.46000	1093.00000	1076.17379	0.00091
74.47000	1027.00000	1076.95756	0.00097
74.48000	1076.00000	1077.72944	0.00093
74.49000	1132.00000	1078.48744	0.00088
74.50000	1082.00000	1079.22907	0.00092
74.51000	1089.00000	1079.95200	0.00092
74.52000	1016.00000	1080.65391	0.00098
74.53000	1087.00000	1081.33244	0.00092
74.54000	1093.00000	1081.98524	0.00091
74.55000	1046.00000	1082.60987	0.00096
74.56000	1029.00000	1083.20339	0.00097
74.57000	1099.00000	1083.76207	0.00091
74.58000	1071.00000	1084.28711	0.00093
74.59000	1047.00000	1084.78735	0.00096
74.60000	1037.00000	1085.25291	0.00096
74.61000	1080.00000	1085.68095	0.00093
74.62000	1047.00000	1086.07020	0.00096
74.63000	1082.00000	1086.41955	0.00092
74.64000	1059.00000	1086.72807	0.00094
74.65000	1075.00000	1086.99499	0.00093
74.66000	1071.00000	1087.21972	0.00093
74.67000	1055.00000	1087.40185	0.00095
74.68000	1027.00000	1087.54109	0.00097
74.69000	1112.00000	1087.63731	0.00090
74.70000	1097.00000	1087.69037	0.00091
74.71000	1050.00000	1087.69995	0.00095
74.72000	1068.00000	1087.66424	0.00094
74.73000	1055.00000	1087.58213	0.00095
74.74000	1030.00000	1087.46894	0.00097
74.75000	1062.00000	1087.32345	0.00094
74.76000	1094.00000	1087.14136	0.00091
74.77000	1054.00000	1086.92298	0.00095
74.78000	1074.00000	1086.66934	0.00093
74.79000	1135.00000	1086.38142	0.00088
74.80000	1099.00000	1086.05965	0.00091
74.81000	1077.00000	1085.70385	0.00093
74.82000	1038.00000	1085.31659	0.00096
74.83000	1094.00000	1084.90288	0.00091
74.84000	1090.00000	1084.46894	0.00092
74.85000	1076.00000	1084.01617	0.00093
74.86000	1146.00000	1083.53999	0.00087
74.87000	1121.00000	1083.03831	0.00089
74.88000	1044.00000	1082.51163	0.00096
74.89000	1056.00000	1081.97786	0.00095
74.90000	1038.00000	1081.42913	0.00096
74.91000	1059.00000	1080.86376	0.00094
74.92000	1027.00000	1080.28263	0.00097
74.93000	1033.00000	1079.68713	0.00097
74.94000	1017.00000	1079.07809	0.00098
74.95000	1035.00000	1078.45612	0.00097
74.96000	997.00000	1077.82204	0.00100
74.97000	990.00000	1077.17653	0.00101
74.98000	1039.00000	1076.52026	0.00096
74.99000	1067.00000	1075.85393	0.00094
75.00000	1078.00000	1075.17821	0.00093
75.01000	1043.00000	1074.49378	0.00096
75.02000	1052.00000	1073.80132	0.00095
75.03000	1060.00000	1073.10153	0.00094

75.04000	1105.00000	1072.39513	0.00090
75.05000	1036.00000	1071.68288	0.00097
75.06000	1005.00000	1070.96555	0.00100
75.07000	1020.00000	1070.24397	0.00098
75.08000	1100.00000	1069.51902	0.00091
75.09000	1099.00000	1068.79158	0.00091
75.10000	1018.00000	1068.06262	0.00098
75.11000	1031.00000	1067.33309	0.00097
75.12000	1012.00000	1066.60401	0.00099
75.13000	1038.00000	1065.87639	0.00096
75.14000	1030.00000	1065.15126	0.00097
75.15000	1051.00000	1064.42961	0.00095
75.16000	1078.00000	1063.71236	0.00093
75.17000	1062.00000	1063.00023	0.00094
75.18000	1090.00000	1062.29353	0.00092
75.19000	1075.00000	1061.59169	0.00093
75.20000	1031.00000	1060.89485	0.00097
75.21000	1029.00000	1060.21525	0.00097
75.22000	1059.00000	1059.55665	0.00094
75.23000	1045.00000	1058.91286	0.00096
75.24000	1073.00000	1058.28365	0.00093
75.25000	1028.00000	1057.67002	0.00097
75.26000	1038.00000	1057.07287	0.00096
75.27000	1009.00000	1056.49310	0.00099
75.28000	1056.00000	1055.93195	0.00095
75.29000	1013.00000	1055.39007	0.00099
75.30000	1065.00000	1054.86798	0.00094
75.31000	1061.00000	1054.36584	0.00094
75.32000	1037.00000	1053.88398	0.00096
75.33000	1056.00000	1053.42657	0.00095
75.34000	1028.00000	1052.99293	0.00097
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75.36000	1020.00000	1052.19661	0.00098
75.37000	1051.00000	1051.83400	0.00095
75.38000	1056.00000	1051.49538	0.00095
75.39000	1084.00000	1051.18079	0.00092
75.40000	1017.00000	1050.88990	0.00098
75.41000	999.00000	1050.62258	0.00100
75.42000	1034.00000	1050.38197	0.00097
75.43000	1058.00000	1050.16632	0.00095
75.44000	1078.00000	1049.97487	0.00093
75.45000	1133.00000	1049.80724	0.00088
75.46000	1078.00000	1049.66268	0.00093
75.47000	1007.00000	1049.53990	0.00099
75.48000	1067.00000	1049.43736	0.00094
75.49000	1035.00000	1049.35553	0.00097
75.50000	1018.00000	1049.30888	0.00098
75.51000	1097.00000	1049.28782	0.00091
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75.53000	1115.00000	1049.31327	0.00090
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75.55000	1079.00000	1049.42605	0.00093
75.56000	1083.00000	1049.51453	0.00092
75.57000	1053.00000	1049.62330	0.00095
75.58000	1028.00000	1049.75177	0.00097
75.59000	1052.00000	1049.89930	0.00095
75.60000	1088.00000	1050.06522	0.00092
75.61000	1060.00000	1050.24884	0.00094
75.62000	1051.00000	1050.44945	0.00095
75.63000	1063.00000	1050.66628	0.00094
75.64000	1068.00000	1050.89858	0.00094
75.65000	1050.00000	1051.14555	0.00095
75.66000	1045.00000	1051.40637	0.00096
75.67000	1093.00000	1051.68020	0.00091
75.68000	1073.00000	1051.96621	0.00093
75.69000	1056.00000	1052.26351	0.00095
75.70000	1026.00000	1052.57125	0.00097
75.71000	1048.00000	1052.88853	0.00095
75.72000	1064.00000	1053.21449	0.00094

75.73000	1067.00000	1053.54822	0.00094
75.74000	1050.00000	1053.88886	0.00095
75.75000	1070.00000	1054.23554	0.00093
75.76000	1065.00000	1054.58736	0.00094
75.77000	1064.00000	1054.94346	0.00094
75.78000	1085.00000	1055.30294	0.00092
75.79000	1038.00000	1055.66495	0.00096
75.80000	1060.00000	1056.02863	0.00094
75.81000	1088.00000	1056.39313	0.00092
75.82000	1086.00000	1056.75760	0.00092
75.83000	1049.00000	1057.12116	0.00095
75.84000	1066.00000	1057.48288	0.00094
75.85000	1077.00000	1057.84169	0.00093
75.86000	1077.00000	1058.19625	0.00093
75.87000	1104.00000	1058.54455	0.00091
75.88000	1083.00000	1058.88207	0.00092
75.89000	1038.00000	1059.20072	0.00096
75.90000	1008.00000	1059.51100	0.00099
75.91000	1055.00000	1059.84851	0.00095
75.92000	1072.00000	1060.18775	0.00093
75.93000	1071.00000	1060.52268	0.00093
75.94000	1099.00000	1060.85390	0.00091
75.95000	1064.00000	1061.17810	0.00094
75.96000	1054.00000	1061.49021	0.00095
75.97000	1049.00000	1061.78541	0.00095
75.98000	1084.00000	1062.08859	0.00092
75.99000	1070.00000	1062.40516	0.00093
76.00000	1069.00000	1062.72119	0.00094
76.01000	1075.00000	1063.03377	0.00093
76.02000	1069.00000	1063.34284	0.00094
76.03000	1082.00000	1063.64845	0.00092
76.04000	1125.00000	1063.95063	0.00089
76.05000	1013.00000	1064.24940	0.00099
76.06000	1095.00000	1064.54476	0.00091
76.07000	1042.00000	1064.83667	0.00096
76.08000	1079.00000	1065.12505	0.00093
76.09000	1065.00000	1065.40978	0.00094
76.10000	1035.00000	1065.69071	0.00097
76.11000	1072.00000	1065.96763	0.00093
76.12000	1075.00000	1066.24025	0.00093
76.13000	1097.00000	1066.50820	0.00091
76.14000	1076.00000	1066.77080	0.00093
76.15000	1057.00000	1067.02736	0.00095
76.16000	1121.00000	1067.27940	0.00089
76.17000	1137.00000	1067.52751	0.00088
76.18000	1089.00000	1067.76986	0.00092
76.19000	1044.00000	1068.00570	0.00096
76.20000	1081.00000	1068.23456	0.00093
76.21000	1029.00000	1068.45597	0.00097
76.22000	1094.00000	1068.66945	0.00091
76.23000	1077.00000	1068.87454	0.00093
76.24000	1065.00000	1069.07076	0.00094
76.25000	1095.00000	1069.25764	0.00091
76.26000	1049.00000	1069.43474	0.00095
76.27000	1108.00000	1069.60162	0.00090
76.28000	1066.00000	1069.75785	0.00094
76.29000	1103.00000	1069.90305	0.00091
76.30000	1112.00000	1070.03684	0.00090
76.31000	1099.00000	1070.15888	0.00091
76.32000	1116.00000	1070.26885	0.00090
76.33000	1117.00000	1070.36648	0.00090
76.34000	1062.00000	1070.45151	0.00094
76.35000	1091.00000	1070.52369	0.00092
76.36000	1049.00000	1070.58278	0.00095
76.37000	1058.00000	1070.62848	0.00095
76.38000	1051.00000	1070.66032	0.00095
76.39000	1078.00000	1070.67683	0.00093
76.40000	1118.00000	1070.67853	0.00089
76.41000	1095.00000	1070.67588	0.00091

76.42000	1087.00000	1070.66254	0.00092
76.43000	1089.00000	1070.63752	0.00092
76.44000	1082.00000	1070.60118	0.00092
76.45000	1046.00000	1070.55393	0.00096
76.46000	1019.00000	1070.49625	0.00098
76.47000	989.00000	1070.42863	0.00101
76.48000	1074.00000	1070.35162	0.00093
76.49000	1089.00000	1070.26581	0.00092
76.50000	1109.00000	1070.17179	0.00090
76.51000	1068.00000	1070.07020	0.00094
76.52000	1042.00000	1069.96168	0.00096
76.53000	1080.00000	1069.84688	0.00093
76.54000	1081.00000	1069.72645	0.00093
76.55000	1071.00000	1069.60105	0.00093
76.56000	1065.00000	1069.47134	0.00094
76.57000	1073.00000	1069.33796	0.00093
76.58000	1064.00000	1069.20155	0.00094
76.59000	1076.00000	1069.06275	0.00093
76.60000	1115.00000	1068.92218	0.00090
76.61000	1141.00000	1068.78046	0.00088
76.62000	1083.00000	1068.63821	0.00092
76.63000	1055.00000	1068.49605	0.00095
76.64000	1085.00000	1068.35459	0.00092
76.65000	1061.00000	1068.21444	0.00094
76.66000	1104.00000	1068.07622	0.00091
76.67000	1121.00000	1067.94055	0.00089
76.68000	1069.00000	1067.80806	0.00094
76.69000	1107.00000	1067.67931	0.00090
76.70000	1094.00000	1067.55494	0.00091
76.71000	1110.00000	1067.43605	0.00090
76.72000	1098.00000	1067.32313	0.00091
76.73000	1067.00000	1067.21675	0.00094
76.74000	1063.00000	1067.11760	0.00094
76.75000	1041.00000	1067.02635	0.00096
76.76000	1051.00000	1066.94369	0.00095
76.77000	1059.00000	1066.87027	0.00094
76.78000	1041.00000	1066.80677	0.00096
76.79000	1078.00000	1066.75381	0.00093
76.80000	1040.00000	1066.71200	0.00096
76.81000	1048.00000	1066.68193	0.00095
76.82000	1074.00000	1066.66413	0.00093
76.83000	1073.00000	1066.65909	0.00093
76.84000	1067.00000	1066.66712	0.00094
76.85000	1038.00000	1066.68863	0.00096
76.86000	1041.00000	1066.72506	0.00096
76.87000	1018.00000	1066.77619	0.00098
76.88000	1029.00000	1066.84214	0.00097
76.89000	1060.00000	1066.92314	0.00094
76.90000	1033.00000	1067.01937	0.00097
76.91000	1039.00000	1067.13094	0.00096
76.92000	1039.00000	1067.25791	0.00096
76.93000	1104.00000	1067.40028	0.00091
76.94000	1065.00000	1067.55799	0.00094
76.95000	1118.00000	1067.73089	0.00089
76.96000	1075.00000	1067.91880	0.00093
76.97000	1047.00000	1068.12141	0.00096
76.98000	1072.00000	1068.33823	0.00093
76.99000	1131.00000	1068.56860	0.00088
77.00000	1078.00000	1068.81283	0.00093
77.01000	1068.00000	1069.07219	0.00094
77.02000	1063.00000	1069.34495	0.00094
77.03000	1074.00000	1069.63026	0.00093
77.04000	1101.00000	1069.92757	0.00091
77.05000	1100.00000	1070.23628	0.00091
77.06000	1036.00000	1070.55577	0.00097
77.07000	1072.00000	1070.88538	0.00093
77.08000	1079.00000	1071.22442	0.00093
77.09000	1036.00000	1071.57216	0.00097
77.10000	1052.00000	1071.92786	0.00095

77.11000	1092.00000	1072.29076	0.00092
77.12000	1064.00000	1072.66006	0.00094
77.13000	1097.00000	1073.03495	0.00091
77.14000	1126.00000	1073.41461	0.00089
77.15000	1085.00000	1073.79820	0.00092
77.16000	1092.00000	1074.18486	0.00092
77.17000	1083.00000	1074.57373	0.00092
77.18000	1101.00000	1074.96392	0.00091
77.19000	1071.00000	1075.35454	0.00093
77.20000	1040.00000	1075.74469	0.00096
77.21000	1079.00000	1076.13347	0.00093
77.22000	1100.00000	1076.51996	0.00091
77.23000	1067.00000	1076.90322	0.00094
77.24000	1087.00000	1077.28231	0.00092
77.25000	1103.00000	1077.65619	0.00091
77.26000	1091.00000	1078.02375	0.00092
77.27000	1056.00000	1078.38352	0.00095
77.28000	1073.00000	1078.73264	0.00093
77.29000	1077.00000	1079.06841	0.00093
77.30000	1119.00000	1079.40182	0.00089
77.31000	1076.00000	1079.73246	0.00093
77.32000	1065.00000	1080.05420	0.00094
77.33000	1082.00000	1080.36533	0.00092
77.34000	1130.00000	1080.66510	0.00088
77.35000	1042.00000	1080.95283	0.00096
77.36000	1029.00000	1081.22780	0.00097
77.37000	1144.00000	1081.48902	0.00087
77.38000	1083.00000	1081.73580	0.00092
77.39000	1054.00000	1081.97032	0.00095
77.40000	1067.00000	1082.19059	0.00094
77.41000	1070.00000	1082.39644	0.00093
77.42000	1035.00000	1082.58725	0.00097
77.43000	1070.00000	1082.76249	0.00093
77.44000	1071.00000	1082.92166	0.00093
77.45000	1082.00000	1083.06441	0.00092
77.46000	1111.00000	1083.19045	0.00090
77.47000	1099.00000	1083.29948	0.00091
77.48000	1089.00000	1083.39122	0.00092
77.49000	1044.00000	1083.46540	0.00096
77.50000	1059.00000	1083.52170	0.00094
77.51000	1146.00000	1083.55965	0.00087
77.52000	1058.00000	1083.57817	0.00095
77.53000	1066.00000	1083.57674	0.00094
77.54000	1027.00000	1083.56215	0.00097
77.55000	1080.00000	1083.53075	0.00093
77.56000	1102.00000	1083.48133	0.00091
77.57000	1040.00000	1083.41381	0.00096
77.58000	1108.00000	1083.32801	0.00090
77.59000	1121.00000	1083.22386	0.00089
77.60000	1060.00000	1083.10251	0.00094
77.61000	1078.00000	1082.96352	0.00093
77.62000	1101.00000	1082.80671	0.00091
77.63000	1096.00000	1082.63214	0.00091
77.64000	1054.00000	1082.43987	0.00095
77.65000	1059.00000	1082.22999	0.00094
77.66000	1081.00000	1082.00261	0.00093
77.67000	1091.00000	1081.75783	0.00092
77.68000	1082.00000	1081.49578	0.00092
77.69000	1078.00000	1081.21659	0.00093
77.70000	1085.00000	1080.92039	0.00092
77.71000	1065.00000	1080.60732	0.00094
77.72000	1080.00000	1080.27752	0.00093
77.73000	1023.00000	1079.93116	0.00098
77.74000	1073.00000	1079.56840	0.00093
77.75000	1114.00000	1079.18943	0.00090
77.76000	1038.00000	1078.79459	0.00096
77.77000	1062.00000	1078.38399	0.00094
77.78000	1051.00000	1077.95785	0.00095
77.79000	1070.00000	1077.51638	0.00093

77.80000	1053.00000	1077.05977	0.00095
77.81000	1063.00000	1076.58818	0.00094
77.82000	1049.00000	1076.10165	0.00095
77.83000	1107.00000	1075.60001	0.00090
77.84000	1021.00000	1075.08248	0.00098
77.85000	1051.00000	1074.54580	0.00095
77.86000	1054.00000	1073.98776	0.00095
77.87000	1059.00000	1073.43173	0.00094
77.88000	1104.00000	1072.87590	0.00091
77.89000	1099.00000	1072.31165	0.00091
77.90000	1046.00000	1071.73792	0.00096
77.91000	1072.00000	1071.15509	0.00093
77.92000	1083.00000	1070.56346	0.00092
77.93000	1071.00000	1069.96266	0.00093
77.94000	1078.00000	1069.35095	0.00093
77.95000	1122.00000	1068.73096	0.00089
77.96000	1068.00000	1068.11838	0.00094
77.97000	1063.00000	1067.50484	0.00094
77.98000	1110.00000	1066.88864	0.00090
77.99000	1108.00000	1066.27058	0.00090
78.00000	1041.00000	1065.65146	0.00096
78.01000	1002.00000	1065.03212	0.00100
78.02000	1050.00000	1064.41333	0.00095
78.03000	1068.00000	1063.79586	0.00094
78.04000	1100.00000	1063.18044	0.00091
78.05000	1076.00000	1062.56780	0.00093
78.06000	1046.00000	1061.95858	0.00096
78.07000	1056.00000	1061.35343	0.00095
78.08000	1033.00000	1060.75291	0.00097
78.09000	1045.00000	1060.15753	0.00096
78.10000	1087.00000	1059.56773	0.00092
78.11000	1031.00000	1058.98388	0.00097
78.12000	1060.00000	1058.40620	0.00094
78.13000	1057.00000	1057.83474	0.00095
78.14000	1061.00000	1057.26918	0.00094
78.15000	1059.00000	1056.70802	0.00094
78.16000	1072.00000	1056.14902	0.00093
78.17000	1073.00000	1055.59967	0.00093
78.18000	983.00000	1055.06933	0.00102
78.19000	1050.00000	1054.54937	0.00095
78.20000	1114.00000	1054.03768	0.00090
78.21000	1037.00000	1053.53411	0.00096
78.22000	1051.00000	1053.03851	0.00095
78.23000	1069.00000	1052.55064	0.00094
78.24000	1035.00000	1052.07021	0.00097
78.25000	1075.00000	1051.59688	0.00093
78.26000	1103.00000	1051.13024	0.00091
78.27000	1085.00000	1050.66985	0.00092
78.28000	1069.00000	1050.21518	0.00094
78.29000	1055.00000	1049.76567	0.00095
78.30000	1078.00000	1049.32066	0.00093
78.31000	1066.00000	1048.87943	0.00094
78.32000	1038.00000	1048.44110	0.00096
78.33000	989.00000	1048.00447	0.00101
78.34000	1032.00000	1047.56704	0.00097
78.35000	999.00000	1047.12552	0.00100
78.36000	1008.00000	1046.68747	0.00099
78.37000	1054.00000	1046.26094	0.00095
78.38000	1058.00000	1045.83732	0.00095
78.39000	1040.00000	1045.41389	0.00096
78.40000	1074.00000	1044.99007	0.00093
78.41000	1055.00000	1044.56538	0.00095
78.42000	1103.00000	1044.13935	0.00091
78.43000	1073.00000	1043.71141	0.00093
78.44000	1035.00000	1043.28086	0.00097
78.45000	1049.00000	1042.84663	0.00095
78.46000	1036.00000	1042.40515	0.00097
78.47000	986.00000	1041.95536	0.00101
78.48000	1009.00000	1041.52135	0.00099

78.49000	1037.00000	1041.09153	0.00096
78.50000	1040.00000	1040.66135	0.00096
78.51000	1036.00000	1040.23067	0.00097
78.52000	1005.00000	1039.79973	0.00100
78.53000	1035.00000	1039.36875	0.00097
78.54000	1075.00000	1038.93786	0.00093
78.55000	1062.00000	1038.50693	0.00094
78.56000	1047.00000	1038.07468	0.00096
78.57000	1024.00000	1037.63940	0.00098
78.58000	1011.00000	1037.20993	0.00099
78.59000	1012.00000	1036.79326	0.00099
78.60000	1006.00000	1036.38264	0.00099
78.61000	1048.00000	1035.97691	0.00095
78.62000	1037.00000	1035.57659	0.00096
78.63000	1038.00000	1035.18215	0.00096
78.64000	1008.00000	1034.79405	0.00099
78.65000	1031.00000	1034.41334	0.00097
78.66000	1030.00000	1034.04049	0.00097
78.67000	1055.00000	1033.67568	0.00095
78.68000	1086.00000	1033.31924	0.00092
78.69000	1100.00000	1032.97144	0.00091
78.70000	1071.00000	1032.63238	0.00093
78.71000	1027.00000	1032.30163	0.00097
78.72000	1068.00000	1031.97917	0.00094
78.73000	1011.00000	1031.66958	0.00099
78.74000	969.00000	1031.37054	0.00103
78.75000	1052.00000	1031.08094	0.00095
78.76000	1085.00000	1030.79984	0.00092
78.77000	965.00000	1030.52366	0.00104
78.78000	978.00000	1030.24992	0.00102
78.79000	1046.00000	1030.00196	0.00096
78.80000	1072.00000	1029.77171	0.00093
78.81000	1055.00000	1029.55302	0.00095
78.82000	1053.00000	1029.34545	0.00095
78.83000	1113.00000	1029.14872	0.00090
78.84000	1029.00000	1028.96263	0.00097
78.85000	1020.00000	1028.78694	0.00098
78.86000	1032.00000	1028.62130	0.00097
78.87000	1068.00000	1028.46526	0.00094
78.88000	1084.00000	1028.31791	0.00092
78.89000	1022.00000	1028.17851	0.00098
78.90000	960.00000	1028.05056	0.00104
78.91000	1006.00000	1027.93293	0.00099
78.92000	996.00000	1027.82373	0.00100
78.93000	1008.00000	1027.72226	0.00099
78.94000	1003.00000	1027.62798	0.00100
78.95000	968.00000	1027.54028	0.00103
78.96000	1003.00000	1027.45849	0.00100
78.97000	995.00000	1027.38185	0.00101
78.98000	1028.00000	1027.30942	0.00097
78.99000	1063.00000	1027.24002	0.00094
79.00000	992.00000	1027.17173	0.00101
79.01000	1031.00000	1027.09953	0.00097
79.02000	1029.00000	1027.01912	0.00097
79.03000	1015.00000	1026.95514	0.00099
79.04000	1004.00000	1026.90412	0.00100
79.05000	1003.00000	1026.85592	0.00100
79.06000	1030.00000	1026.80763	0.00097
79.07000	1051.00000	1026.75694	0.00095
79.08000	1036.00000	1026.70207	0.00097
79.09000	981.00000	1026.65085	0.00102
79.10000	1010.00000	1026.60070	0.00099
79.11000	996.00000	1026.54786	0.00100
79.12000	1020.00000	1026.49088	0.00098
79.13000	1058.00000	1026.42824	0.00095
79.14000	1036.00000	1026.35629	0.00097
79.15000	1023.00000	1026.27283	0.00098
79.16000	1044.00000	1026.19697	0.00096
79.17000	1084.00000	1026.12335	0.00092

79.18000	1094.00000	1026.04418	0.00091
79.19000	1032.00000	1025.95753	0.00097
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79.21000	1071.00000	1025.76171	0.00093
79.22000	1024.00000	1025.65419	0.00098
79.23000	1026.00000	1025.54343	0.00097
79.24000	1003.00000	1025.42570	0.00100
79.25000	1035.00000	1025.29996	0.00097
79.26000	1013.00000	1025.16591	0.00099
79.27000	1050.00000	1025.02329	0.00095
79.28000	1095.00000	1024.87189	0.00091
79.29000	1074.00000	1024.71147	0.00093
79.30000	1031.00000	1024.54185	0.00097
79.31000	983.00000	1024.36285	0.00102
79.32000	1024.00000	1024.17429	0.00098
79.33000	1026.00000	1023.97600	0.00097
79.34000	1012.00000	1023.76784	0.00099
79.35000	978.00000	1023.54963	0.00102
79.36000	1015.00000	1023.32124	0.00099
79.37000	1056.00000	1023.08248	0.00095
79.38000	1011.00000	1022.83320	0.00099
79.39000	1012.00000	1022.57316	0.00099
79.40000	1013.00000	1022.30203	0.00099
79.41000	985.00000	1022.01948	0.00102
79.42000	1011.00000	1021.72650	0.00099
79.43000	973.00000	1021.42289	0.00103
79.44000	1000.00000	1021.10782	0.00100
79.45000	995.00000	1020.78086	0.00101
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79.48000	1074.00000	1019.72663	0.00093
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79.50000	1013.00000	1018.96829	0.00099
79.51000	1029.00000	1018.57049	0.00097
79.52000	977.00000	1018.15998	0.00102
79.53000	1028.00000	1017.73656	0.00097
79.54000	1034.00000	1017.30002	0.00097
79.55000	1021.00000	1016.85016	0.00098
79.56000	1005.00000	1016.38677	0.00100
79.57000	1039.00000	1015.90962	0.00096
79.58000	1002.00000	1015.41850	0.00100
79.59000	1037.00000	1014.91317	0.00096
79.60000	1007.00000	1014.39340	0.00099
79.61000	1017.00000	1013.85894	0.00098
79.62000	1023.00000	1013.30954	0.00098
79.63000	1049.00000	1012.74493	0.00095
79.64000	1019.00000	1012.16483	0.00098
79.65000	963.00000	1011.56895	0.00104
79.66000	1010.00000	1010.95698	0.00099
79.67000	959.00000	1010.32860	0.00104
79.68000	1002.00000	1009.68347	0.00100
79.69000	1009.00000	1009.02123	0.00099
79.70000	1025.00000	1008.34150	0.00098
79.71000	1029.00000	1007.64387	0.00097
79.72000	1022.00000	1006.92793	0.00098
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79.75000	1032.00000	1004.66572	0.00097
79.76000	982.00000	1003.87191	0.00102
79.77000	990.00000	1003.05734	0.00101
79.78000	1024.00000	1002.22143	0.00098
79.79000	1031.00000	1001.36353	0.00097
79.80000	1026.00000	1000.48278	0.00097
79.81000	1003.00000	999.57760	0.00100
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_audit_author_name

_audit_author_address

'Aleksandr A. Shubin'

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;

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2021-04-28 deposited with the CCDC. 2021-05-17 downloaded from the CCDC.

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