
SCIENTIFIC NOTEBOOK

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INITIALS: CC

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SCIENTIFIC NOTEBOOK

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PROJECT

UNSATURATED AND SATURATED FLOW UNDER ISOTHERMAL CONDITIONS

PROJECT NUMBER 20-1402-861

TASK

GEOPHYSICAL INVESTIGATIONS OF FRACTURE FLOW

APRIL-1998

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Title: Electromagnetic Surveys across the Southern Crater Flat Fault

Field Work conducted April 5-8, 1998

Persons Present: Ron Martin, Peter La Femina, Chuck Connor, Britt Hill

Electromagnetic (EM) methods are frequently used to delineate changes in soil moisture content because of the electrical conductivity contrast that can exist between moist rock and dry rock (e.g., McNeill, 1980a; Parasnis, 1986). These and similar electrical methods have been successfully applied to map infiltration and change in moisture content along fractures, fault zones, and other subsurface barriers to flow (e.g., Unsworth and Booker, 1998; Daily and Ramirez, 1996). At Yucca Mountain (YM) the possibility of comparatively rapid infiltration of meteoric water and transport of radionuclides along fractures and fault zones is an area of potential concern due to the impact on dose from both rapid arrival of radionuclides at a critical group location and because flow on such pathways may limit opportunities for dilution of radionuclides compared to porous flow through comparatively homogeneous geologic units (e.g., Mackin et al., 1997; Bagtzoglou et al., 1997).

The purpose of this trip was to assess the utility of EM surveys for identifying and mapping variations in soil moisture content and related properties of the alluvium across fault zones in the YM region.

The Southern Crater Flat Fault (SCFF) was chosen for this initial experiment because the fault crops out in the southern part of the map area, the fault has been trenched in two locations, and the fault juxtaposes basalt against alluvium, providing a good magnetic contrast.

Instrumentation and Survey Design

All activities during this field work were conducted under Center For Nuclear Waste Regulatory Analyses Quality Assurance Procedures. This initial experiment used two EM instruments (Geonics EM-31 and Geonics EM-34). Both instruments induce current flow in the half-space (ground) beneath a transmitter coil and measure the primary and secondary magnetic fields at a receiver coil (McNeill, 1980b). The primary magnetic field is produced directly by the transmitter and is sent to the receiver by a direct electrical connection. The secondary magnetic field is produced by development of electrical currents in conducting material (rocks, water) in the ground. The amplitude of the secondary magnetic field and the phase shift between the primary and secondary magnetic fields are measured by the EM-31 at a fixed coil separation. Phase shifts are nulled by the EM-34 by shifting the position of the receiver coil slightly with respect to the transmitter coil and the amplitude of the secondary magnetic field is determined after the phase shift is nulled. Apparent conductivity of the earth is determined directly from these measurements (McNeill, 1980b). All conductivity measurements are reported in milliSeimens per meter (mS/m), where $1 \text{ mS/m} = 1000/(\text{ohm m})$.

The depth and volume of rock over which earth conductivities are integrated to produce a single apparent conductivity measurement depend on the distance of coil separation and the orientation of the coils (e.g., Parasnis, 1986). In the EM-31, coil separation is fixed at 3.7 m. The EM-34 is tuned for coil separations of

approximately 10 m, 20 m, and 40 m. Both instruments can be operated with the coils oriented parallel to the ground surface, in a vertical dipole mode, or with the coils perpendicular to the ground surface, in a horizontal dipole mode. When vertical dipoles are used, the instruments are comparatively insensitive to near-surface conductivity variation and are most sensitive to conductivities at depths of $0.4-1 \times$ the coil separation. In horizontal dipole configurations, the instruments are most sensitive to the near-surface conductivities and sensitivity to conductivity variation decreases nearly exponentially with depth up to the coil separation distance. Because the SCFF survey was in an area of low conductivities, maximum depth of penetration are on the order of $1.5-2 \times$ coil separation.

The EM-31 was operated in its vertical dipole orientation. The instrument was carried by one person. Apparent conductivity, phase and time of measurement were recorded at 2 s intervals using a datalogger. Simultaneously, a second person walked adjacent to the EM-31 operator, logging position using a differential global positioning system (DGPS). The DGPS measures position of the DGPS antenna to approximately 20 cm two-dimensional root-mean-square-error. During the survey the DGPS operator maintained a position within 2 m of the EM-31 operator. Experimentation demonstrated that the DGPS unit had no discernible affect on apparent conductivity or phase measurements. The DGPS and EM-31 measurements were collated during post-processing using time stamps. Prior to the survey the time stamps for both instruments were coordinated. Thus, the EM-31 measurements could be made at 2 s intervals with a position accuracy of 2-3 m. With this survey design, it was possible to collect several thousand EM-31 measurements on traverses across the SCFF (figure 1) and map the near-surface conductivity variation in detail.

Operation of the EM-34 is a slower process because of the need to null the phase and coordinate movement of the instrument between one person at the receiver and a second person at the transmitter coils. EM-34 measurements were made on several profiles across the SCFF after completion of the EM-31 survey. On one traverse a total of 12 measurements were made at each station. These included horizontal and vertical dipole measurements at coil separations of 10m, 20m, and 40 m on two orthogonal arrays centered on the station. These measurements produce an electrical sounding of apparent conductivity variation at each station. In addition, three traverses across the SCFF were made at a coil separation of 20 m with both vertical and horizontal dipoles.

A ground magnetic survey also was conducted across the SCFF using a Geometrics 858 cesium-vapor magnetometer interfaced to the DGPS. The magnetic survey is useful because it provides an independent map of the variation in magnetic mineral content across the map region. Therefore it is possible to delineate conductivity variations resulting from rock properties from those resulting from changes in soil moisture content and possibly clay content of the alluvium.

The magnetic field was monitored continuously at a base station during the survey to record perturbation due to daily ionization of the upper atmosphere and possible magnetic storms (figure 2). The magnetic field was quiet during the field work and the drift in the magnetic field ($< 30\text{nT}$) was subtracted from the magnetic data.

Results

Maps produced as part of the survey of the SCFF include elevation, magnetics, EM-31 conductivity, and EM-31 phase (figures 3-6). Each of these maps comprises approximately 3,700 measurements collected along E-trending traverse lines spaced at 50 m with 3-5 N-trending tie lines. The magnetic map (figure 4) delineates the NNE-trending SCFF because this fault offsets Pliocene basalt. The basalt is buried beneath a thin alluvial veneer (1-3 m) east of the fault and crops out along the fault scarp in the southern part of the map area and in drainages in the northern part of the map area east of the SCFF. West of the fault the basalt is completely buried by alluvium. The magnetic map indicates that the basaltic lava flow has reversed remanent magnetization. East of the SCFF, magnetic anomalies have large amplitudes and short wavelengths, typical for basaltic lava flows in the YM region. These magnetic anomalies persist west of the fault but have lower amplitudes and longer wavelengths, consistent with burial of the lava flow beneath tens of meters of alluvial sediments.

The conductivity map (figure 5) also delineates the SCFF as a sharp change from comparatively high conductivities on the shallow basalt east of the fault zone (5-10 mS/m) to the lower conductivity alluvium west of the fault zone (2-5 mS/m). This step across the fault is accentuated by a 150-200-m-wide band of low conductivity values (1-2 mS/m) which trend parallel to the topographic gradient along the fault zone. Conductivity values this low are not found elsewhere on the map. This band of low conductivity values does not have a magnetic signature (figure 4) indicating that it is not produced by change in the depth of the Pliocene basalt west of the SCFF. In addition to these major features, several details are revealed by the EM-31 conductivity map:

- The band of low conductivity values west of the fault locally correlate well with small topographic features, especially in the southern part of the map area
- A small ramp of higher conductivity values (3-5 mS/m) extends out from the fault zone; this may indicate a splay in the SSCF where the fault bends slightly
- The narrow band of low conductivity values (1-2 mS/m) does not correlate with drainages on the basalt, or other small drainages in the alluvium west of the this band

The phase map (figure 6) indicates that the secondary magnetic field measured by the EM-31 is most out of phase with the primary magnetic field at the fault. This is consistent with a sharp vertical contact between alluvium and basalt produced by the fault.

Following the EM-31 survey, traverses were made across the fault using the EM-34 and a 20 m coil spacing. The goal of these traverses were to delineate the electrical structure of the fault at greater depths than the EM-31 is capable of reaching. The traverses were made with vertical dipoles, which integrate conductivity to depths of about 30 m using a 20 m coil separation and are most sensitive to conductivity variation at depths of 10-20 m, and horizontal dipoles, which integrate conductivity to a depth of about 15 m and are most sensitive to near surface conductivity. Results of two E-trending traverses are shown in figures 7 and 8. Both traverses show conductivity anomalies across the fault. For the comparatively shallow, horizontal dipole

measurements, the results are quite consistent with the EM-31 survey. Low conductivities are identified west of the fault and there is an abrupt increase in conductivity east of the fault associated with shallow Pliocene basalt. The vertical dipole measurements do not indicate a large change in conductivity across the fault as is seen at shallower depths fault. Instead, conductivities are 4-5 mS/m on both sides of the fault. Within the fault zone itself, however, conductivity rapidly varies between 1 and 6 mS/m.

Electrical soundings along a single traverse (figure 9) provide the most complete picture of electrical conductivity variation across the fault as a function of depth. These soundings indicate that the zone of low conductivity persists to a depth of at least 15 m - 20 m. The soundings suggest that the top of the basalt is reached west of the fault at greater depths, possibly on the order of 25-35 m. Anomalously low values (<2 mS/m) typically associated with the fault at shallower depths are not observed. Note that unlike the two traverses (figures 5 and 6), anomalous values were not observed on the sounding traverse using a 20 m coil spacing and vertical dipoles (figure 9).

Cumulatively, these traverses and soundings indicate that the pattern of anomalies observed using the EM-31 persists to varying depths along the fault zone, but at least to approximately 15 m depth wherever measurements were collected.

Interpretation

Very distinctive magnetic and electrical conductivity anomalies occur along the SCFF. A consistent interpretation of the electrical conductivity variation across the SCFF emerges through comparison of the results of the soundings, traverses, and maps. A preliminary interpretation of the EM data is that the Pliocene basalt is down thrown to a depth of approximately 25-35 m on the hangingwall of the fault (figure 10). Low conductivities are found along the fault and extend up to 200 m laterally into the hangingwall. Soundings indicate these low conductivity values persist to at least the top of the basalt in the hangingwall, even where the fault juxtaposes alluvial sequences. The 200-m-wide zone of low conductivity is consistent with development of fractures in the hangingwall of the fault, such as those observed in trenches in the hangingwall, resulting from extension associated with rollover of beds in the fault zone (Ferrill and Morris, 1997).

These results suggest that three related origins for low conductivity values in the hangingwall of the SCFF are possible:

1. There is no change in soil moisture content across the area, even at depth; low conductivity values are observed in the hangingwall because of the increase in interconnected porosity due to fracturing in this zone adjacent to the fault.
2. The low conductivity zone is drier than the surrounding rocks, primarily because conductive soil moisture moves quickly through the fractured hangingwall to greater depths; thus the hangingwall was relatively dry compared to the surrounding alluvium at the time of the survey.
3. Less saline meteorically derived soil moisture predominates along the hangingwall due to higher rates of infiltration in this area, whereas more saline soil moisture predominates away from this zone.

Commonality among these three explanations results from all three relying on increased fracture permeability in the hangingwall of the fault to produce low conductivity values. Based on these preliminary results, we cannot differentiate between these explanations. Nevertheless, further data analysis and modeling may be sufficient to distinguish between some of these interpretations. For example, it should be possible to model the fracture density required to lower the conductivity adjacent to the fault without a change in soil moisture content, then compare this value to observed fracture densities in the trenches within the hangingwall of the SCFF and similar structures. Additional data collection in the same area later in the summer, after the area has dried considerably, also should help differentiate among these interpretations.

CONCLUSIONS

Overall, the geophysical experiments on the SCFF were successful in that very distinctive electrical anomalies were mapped that can be interpreted in terms of increased transmissivity along the fault zone. These experiments were successful in large part because the structures under investigation are shallow, and therefore easily resolved compared to larger and deeper structures that are more likely to serve as fast pathways for radionuclides.

As the EM methods were successful in delineating low electrical conductivity zones along faults, additional work using these methods to augment hydrology and structural deformation studies is recommended. It is recommended that additional sites be selected for implementation of these techniques in the near future, concentrating on three areas of investigation.

First, areas of infiltration and zones of shallow, comparatively high transmissivity can be mapped using identical procedures to those used in the initial SCFF survey. Conversations with hydrology staff (Randy Fedors, English Percy) indicate target areas should be selected on YM crest for detailed geologic and geophysical mapping.

Second, it is recommended that further experiments be conducted to quantify transmissivity along faults. Target faults may include shallow structures, along which anomalies will be better resolved. These faults may include the Solitario Canyon fault, the Bare Mountain Fault, and the Carrara Fault west of Lathrop Wells volcano, where sinkholes have been mapped along the fault trace.

Third, deeper sounding using different electromagnetic instrumentation should be performed to determine how well depth to the water table can be imaged across deeper geologic structures, such as the gravity fault 1-2 km east of Fortymile Wash.

REFERENCES

- Bagtzoglou, A.C., E.C. Percy, S.A. Stothoff, G.W. Wittmeyer, and N.M. Coleman. 1997. *Unsaturated and Saturated Flow Under Isothermal Conditions*. NUREG/CR-6513, No. 1. Washington, DC: Nuclear Regulatory Commission: 10-1-10-29.
- Daily, W. and A. Ramirez. 1996. *A New Geophysical Method for Monitoring Emplacement of Subsurface Barriers*. Lawrence Livermore National Laboratory UCRL-JC-124807.
- Ferrill, D.A., and A.P. Morris. 1997. Geometric considerations of deformation above curved normal faults and salt evacuation surfaces. *The Leading Edge* August, 1997: 1129-1133.
- Mackin, P.C., M.P. Lee, M.S. Jarzemba, R.G. Baca, T.J. McCartin, and R.B. Codell. 1997. *Activities Related to Development of the U.S. Environmental Protection Agency Yucca Mountain Standard*. NUREG/CR-6513, No. 1. Washington, DC: Nuclear Regulatory Commission: 9-1-9-27.
- McNeill, J.D. 1980a. *Electrical Conductivity of Soils and Rocks*. Technical Note TN-5. Geonics Limited: Mississauga, Ontario: Canada. 22 pp.
- McNeill, J.D. 1980b. *Electromagnetic Terrain Conductivity Measurement at Low Induction Numbers*. Technical Note TN-6. Geonics Limited: Mississauga, Ontario: Canada. 15 pp.
- Parasnis, D.S. 1986. *Principles of Applied Geophysics, Fourth Edition*, Chasman and Hall: London, 402 pp.
- Unsworth, M. and J. Booker. 1998. Electromagnetic imaging of fluids in the San Andreas Fault. www.geophys.washington.edu/S...rics/san_andreas/reports/r03157.htm.

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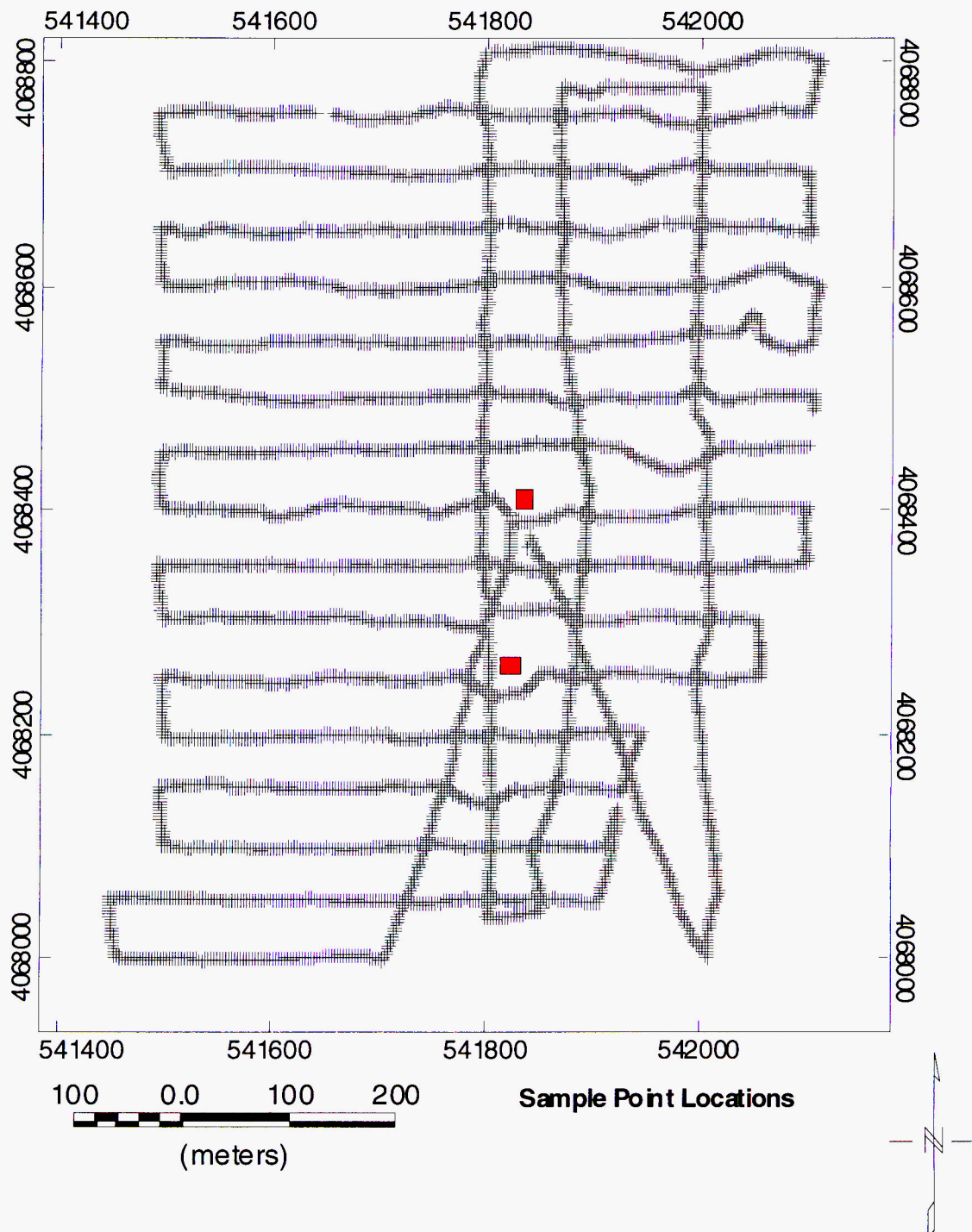


Figure 1. Sample point locations for conductivity measurements. Red boxes indicate trench locations.

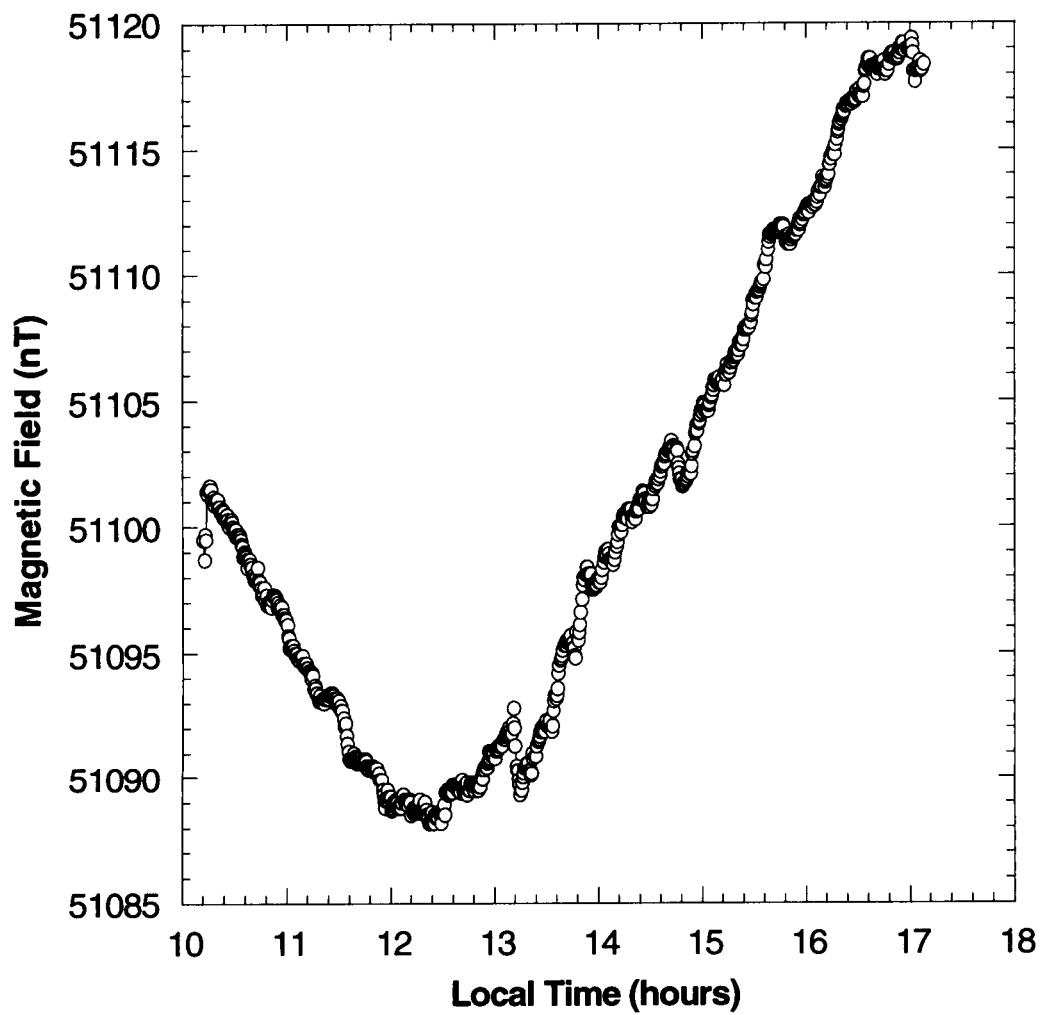


Figure 2. Drift in the magnetic field at the magnetometer base station, April 6, 1998.

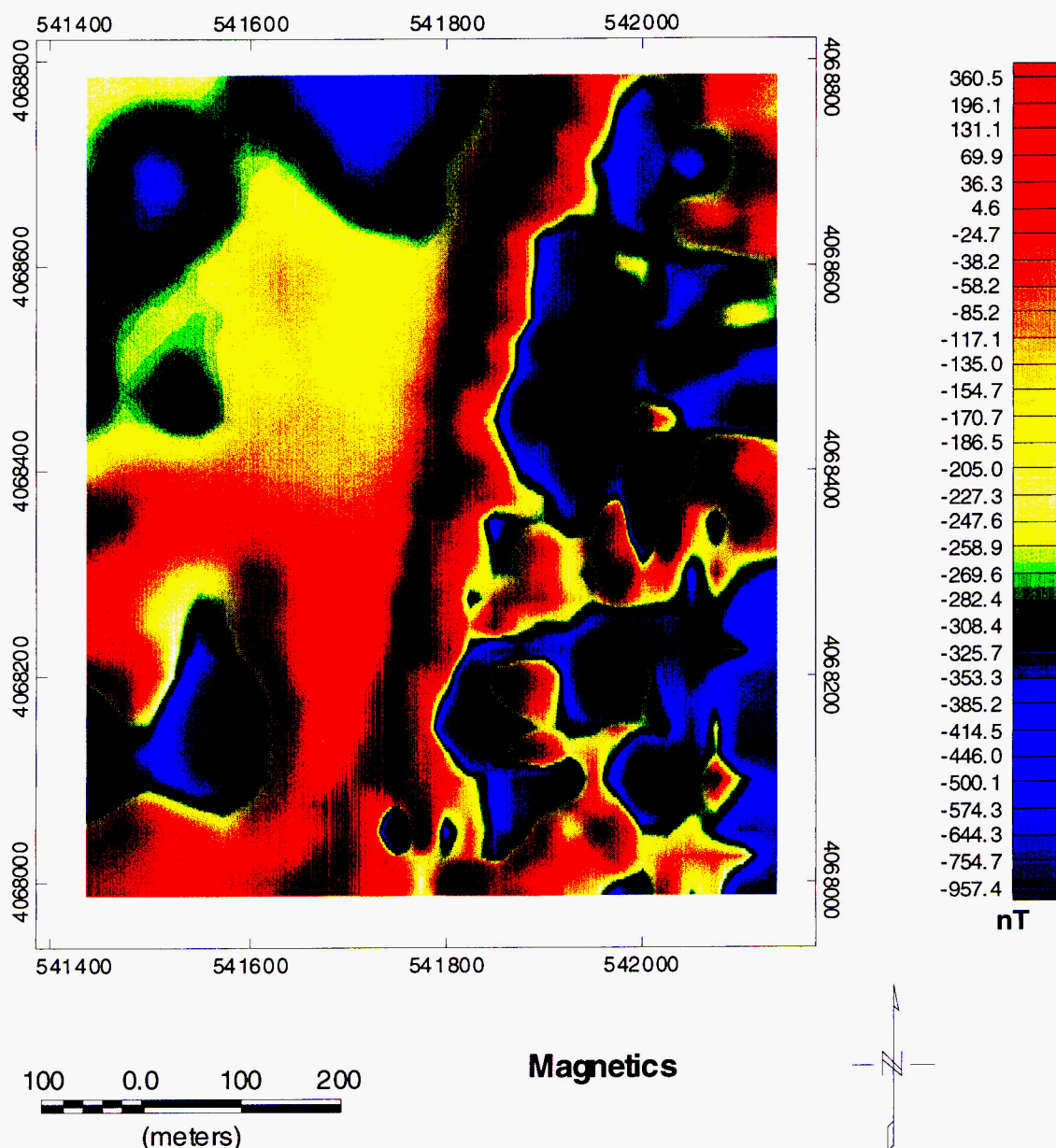


Figure 3. Magnetic anomaly map of the South Crater Flat Fault. Magnetic data have been drift corrected and the International Geomagnetic Reference Field removed. Short-wavelength, large amplitude anomalies in the eastern part of the map correspond to shallow (< 3 m) reversely magnetized Pliocene basalt. The down-thrown basalt west of the fault results in slightly longer wavelength anomalies west of the fault.

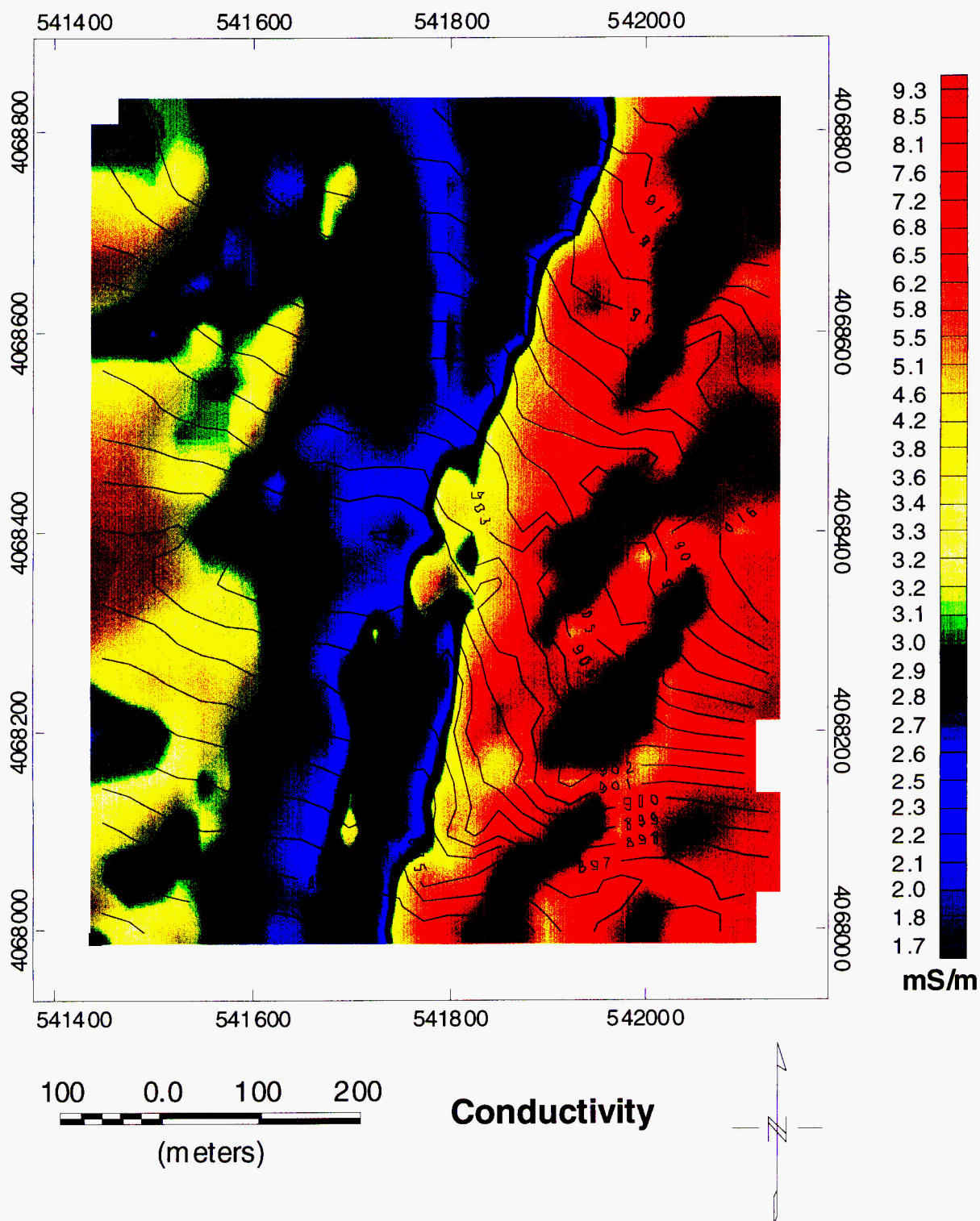


Figure 4. Electrical conductivity map produced using a Geonics EM-31 that measures conductivity to a depth of approximately 6 m. The comparatively high conductivity zone corresponds to shallow Pliocene basalt. Anomalous low conductivities occur adjacent to the South Crater Flat Fault in a 150-200 m band. Topographic contours are superimposed on the conductivity map.

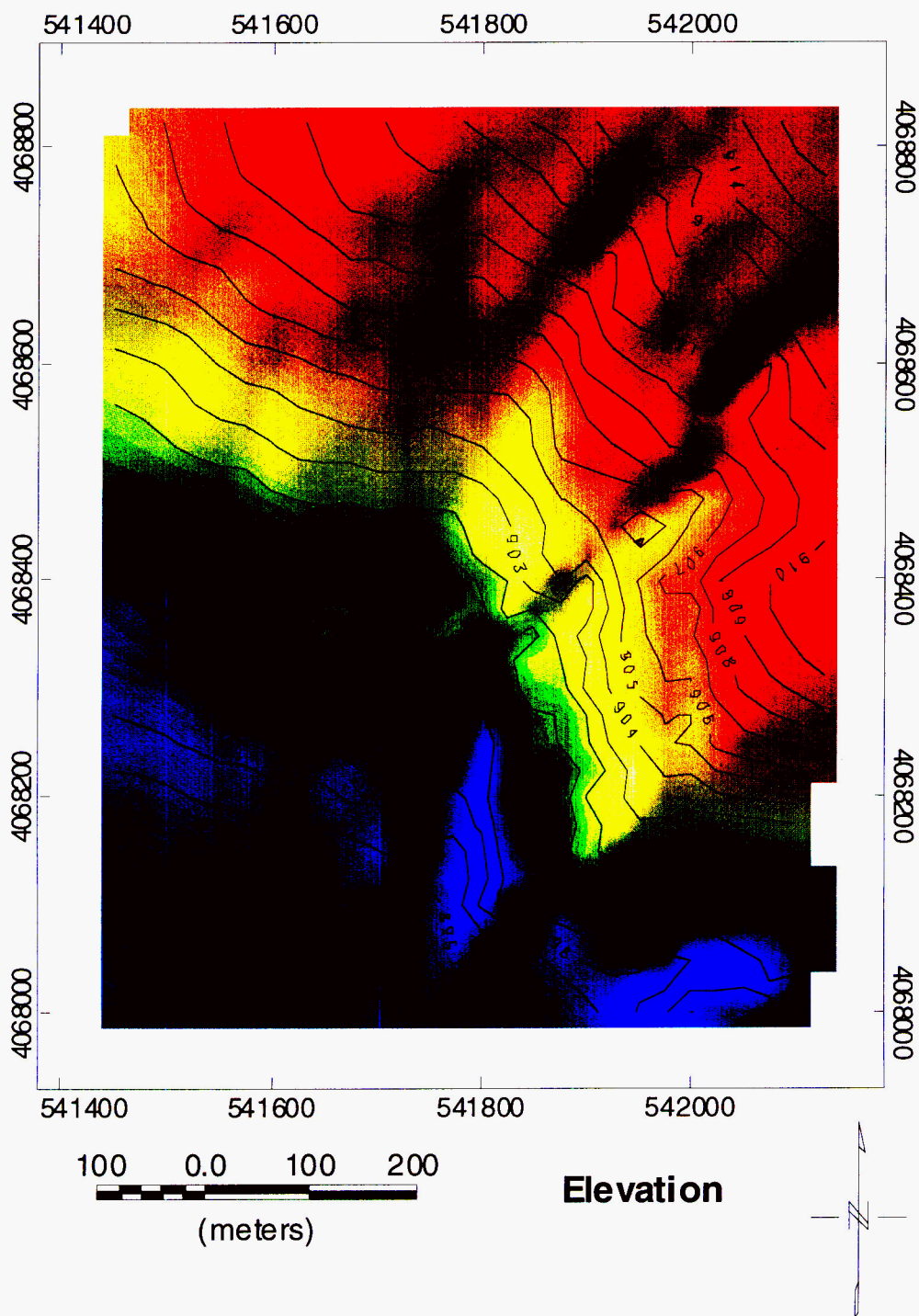


Figure 5. Elevations in the survey area determined from differential GPS measurements and contoured at one meter intervals.

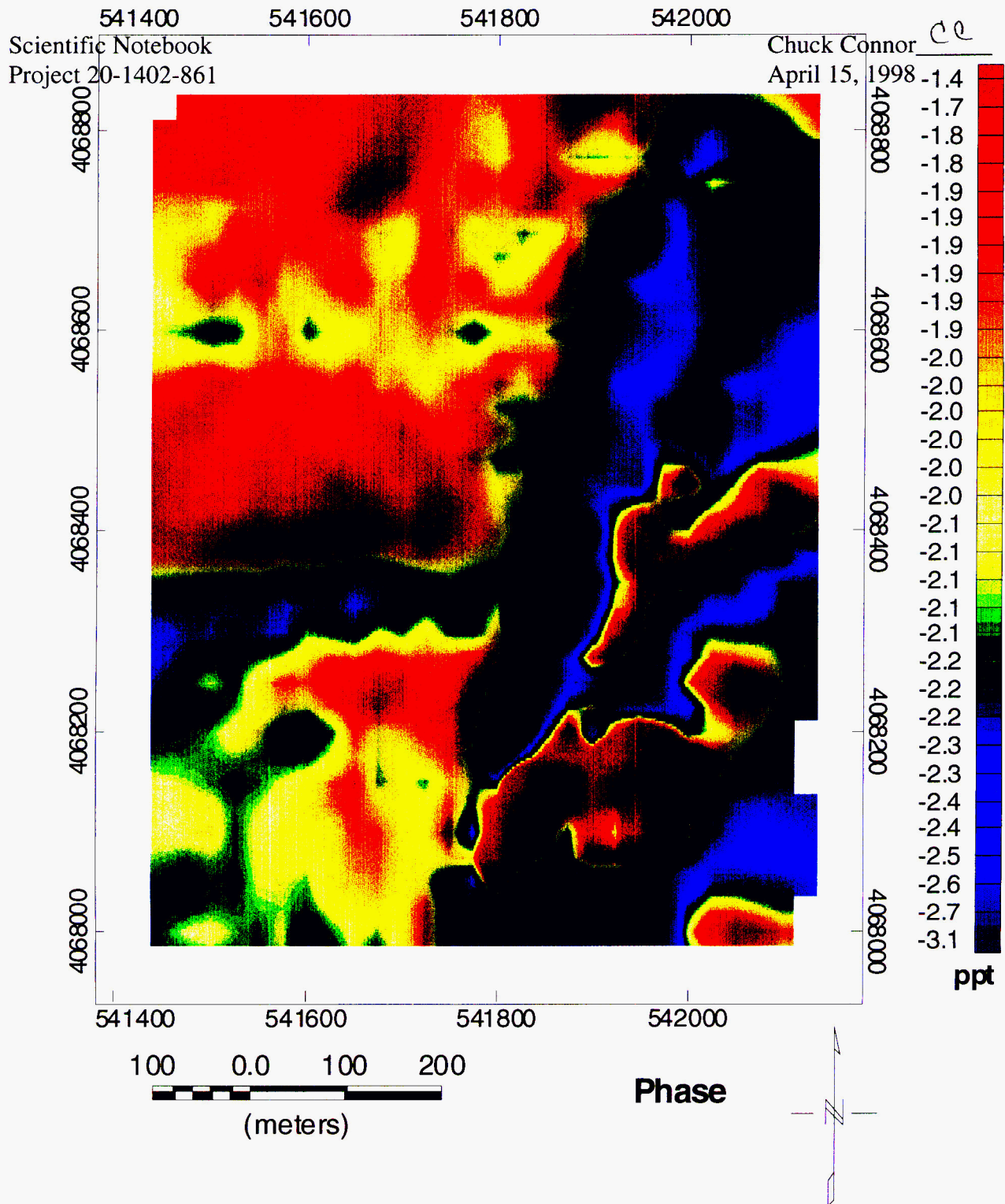


Figure 6. Phase difference between the secondary and primary magnetic fields in parts per thousand, measured using the EM-31, shows the greatest phase difference at the South Crater Flat Fault, consistent with a near-vertical conductivity contrast produced by the Pliocene basalt east of the fault, and alluvium west of the fault.

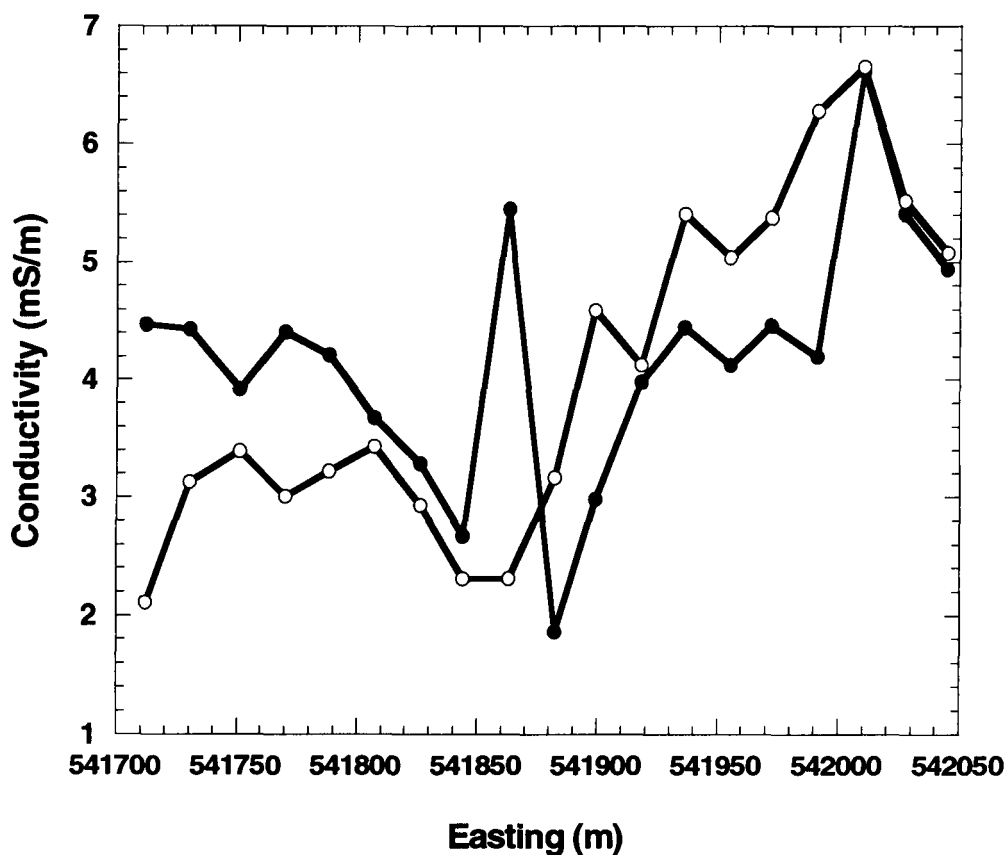


Figure 7. Conductivity profiles across the South Crater Flat fault using a Geonics EM-34. Coil spacing is 20 m and stations are located approximately 20 m apart on the E-trending traverse at approximately 4068640 N. Horizontal dipole measurements (open circles) integrate conductivity to a depth of approximately 15 m and are sensitive to near-surface conductivity. These measurements indicate a sharp change in conductivity across the fault, consistent with the EM-31 measurements. Vertical dipole measurements (solid circles) integrate conductivities to a depth of 30 m and are most sensitive to conductivity at 10-20 m depths. The vertical dipole measurements are consistently between 3-5 mS/m on both sides of the fault. In the fault zone, conductivities vary rapidly between 1.8 and 5.8 mS/m, consistent with the occurrence of fractures along and adjacent to the fault.

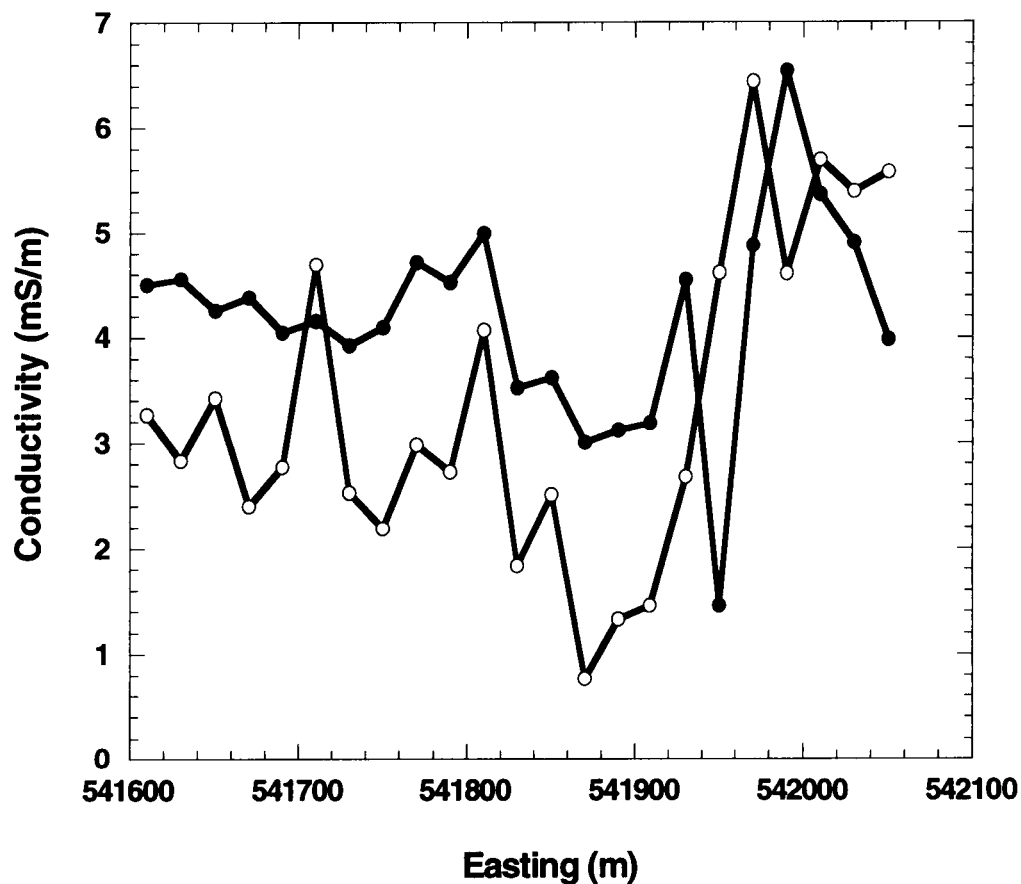


Figure 8. East-trending traverse at approximately 4068720 N, once again showing clear change in conductivity across the fault zone using 20-m-spaced coils and horizontal dipoles (open circles). Vertical dipole measurements (solid circles) yield higher conductivities and also indicate the location of the fault.

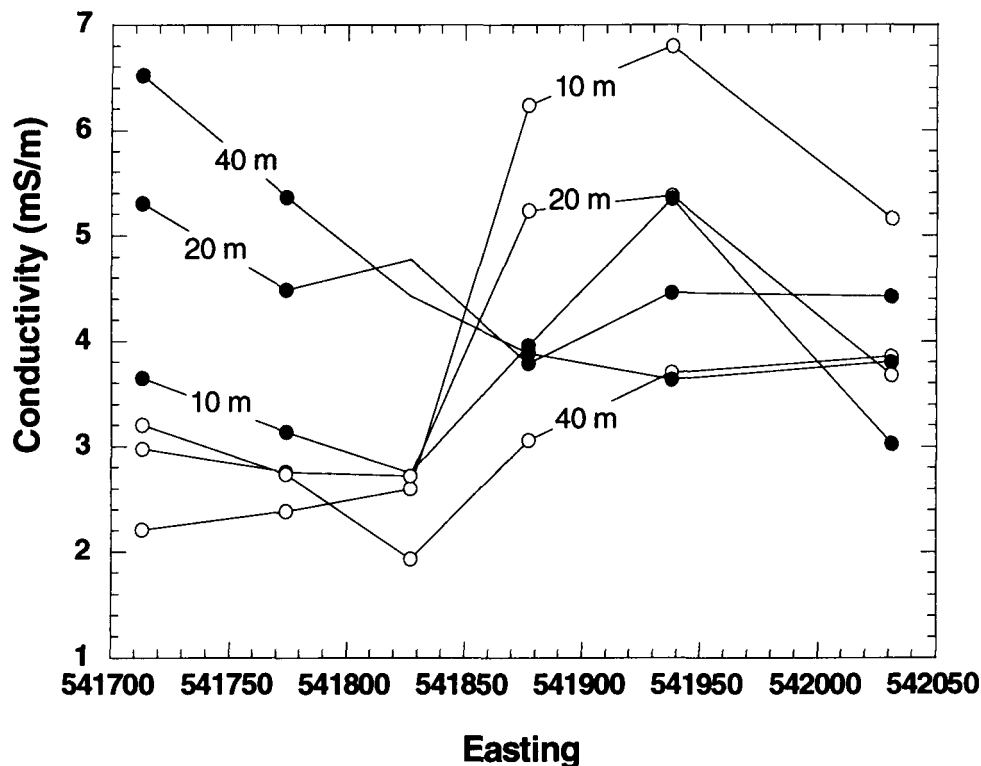


Figure 9. Vertical sounding collected at six stations on an E-trending traverse at approximately 4068500 N, using an EM-34 with coil spacings of 10m, 20 m, and 40 m and vertical (solid circles) and horizontal (open circles) dipoles. The 10m and 20 m horizontal dipole measurements are the shallowest soundings (<7.5-m-deep and <15-m-deep, respectively) and are consistent with the conductivity pattern observed using the EM-31 - a marked increase in conductivity east of the fault is observed on the profiles. The 10 m vertical dipole measurement yields similar results. The 40 m horizontal dipole integrates conductivities up to about 30 m deep. This set of soundings shows little change in conductivity on either side of the fault (3-4 mS/m), but does show a conductivity low (1.9 mS/m) at the projected location of the fault. The 20 m and 40 m vertical dipole soundings show a west to east decrease in conductivity, the opposite of what is observed at shallow depths, and little or no anomalous variation in the area of the fault. These deeper soundings are consistent with basalt at depths of about 25-40 m west of the fault, and alluvium east of the fault.

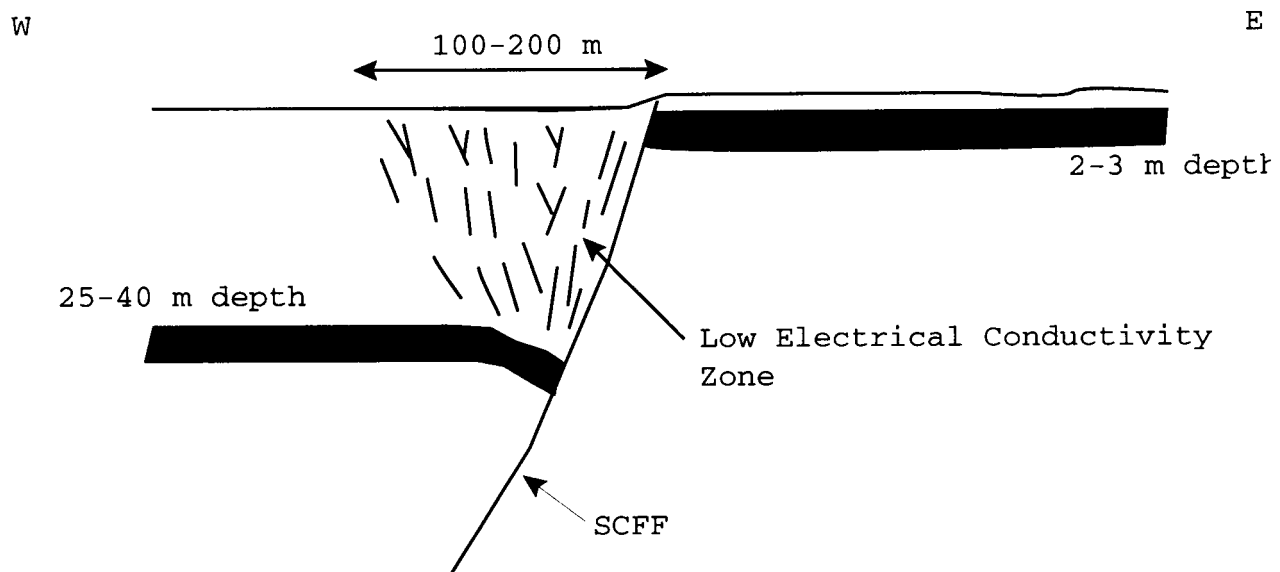


Figure 10. Schematic diagram accounting for the features observed on the magnetic and conductivity maps, traverses, and soundings. The Pliocene basalt is offset across the South Crater Flat Fault (SCFF) and fractures develop in the hangingwall due to the curving geometry of this fault. Low conductivities are interpreted to result from this fracturing, or from moisture redistribution due to this fracturing.

The following C computer code is used to collate the GPS and EM-31 readings. This is necessary in order to plot or contour EM-31 data on a map.

Program:

```
/* Written by: Laura Connor, Programmer
 *           SWRI - Div09
 * Last Modified: April 6, 1998

 * Description: This code associates location data, gathered with a GPS unit,
and electromagnetic readings. If the EM31 collects data faster than the GPS
units can acquire locations, the extra location data is interpolated using a
linear interpolation method.

 * History: Written by Laura Connor, April 1998.

 * Inputs:  gps data file
           em data file

 * Data file format (input):

    .pts file generated from gismo software
    (date)      (time)      (easting) (northing) (elevation)
    1998/04/05  19:20:28.00  541823.20  4068390.35  903.41

    .g31 file generated from em software
    (tag) (count) (conductivity) (phase) (time)
    SV10  1.000  3.250          -2.013  19:20:49.95

 * Outputs: data file (with 'utm' appended to input file name

 * Data file format (output):
    easting(lon) northing(lat) elevation(m) conductivity phase
time(HH:MM:SS.SS)

 * Usage:  em <input em file> <input gps file>
 */

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <math.h>

typedef struct {
    double easting;
    double northing;
    double elev;
    double time;
} GPS_READING;

char *getEMline(FILE *em, char *line, int n);
double getseconds(char *time);

int main(char argc, char *argv[])
{
```



```
int ct, len, ret;
char line[256], time[12], date[12];
double cond, phase, em_time;
char outfile[255];
GPS_READING reading[2];
FILE *gps, *em, *out;

if (argc < 3)
{ fprintf(stderr, "Usage: %s <input em file> <input gps file>\n", argv[0]);
  return(0);
}

em = fopen(argv[1], "r");
if (em == NULL)
{ fprintf(stderr, "Unable to open input file: %s\n", argv[1]);
  return(1);
}

gps = fopen(argv[2], "r");
if (gps == NULL)
{ fprintf(stderr, "Unable to open input file: %s\n", argv[2]);
  return(1);
}

len = strlen(argv[1]);
strncpy(outfile, argv[1], len-3);
outfile[len-3] = '\0';
strncat(outfile, "utm", 3);
out = fopen(outfile, "w");
if (out == NULL)
{ fprintf(stderr, "Unable to open output file: %s\n", outfile);
  return(1);
}
printf("Creating output file: %s\n", outfile);

ct = 0;

/* Get first gps reading from file */
ret = fscanf(gps, "%s %s %lf %lf %lf",
             date, time, &reading[0].easting,
             &reading[0].northing, &reading[0].elev);
if (ret != 5)
{ fprintf(stderr, "Did not get 5 inputs from %s, line: 0 .\n", argv[2]);
  return(1);
}

reading[0].time = getseconds(time);

while (ret = fscanf(gps, "%*s %s %lf %lf %lf",
                   time, &reading[1].easting,
                   &reading[1].northing, &reading[1].elev), ret != EOF)
{ reading[1].time = getseconds(time);
  if (getEMline(em, line, 256) == NULL) break;
  ret = sscanf(line, "%*s %*s %lf %lf %s", &cond, &phase, time);
  if (ret != 3) break;

  em_time = getseconds(time) + 11.0;
```

```
    if ( abs(em_time - reading[0].time) < abs(em_time - reading[1].time) )
    { fprintf(out, "%.1f, %.1f, %.1f, %.2f, %.3f, %.3f\n",
        reading[0].easting, reading[0].northing, reading[0].elev,
        reading[0].time, cond, phase);
        ct++;
    }
    reading[0].easting = reading[1].easting;
    reading[0].northing = reading[1].northing;
    reading[0].elev = reading[1].elev;
    reading[0].time = reading[1].time;
}
fclose(em);
fclose(gps);
printf("Done. %d lines processed.\n", ct);
return(0);
}

char *getEMline(FILE *em, char *line, int n)
{
    while ( fgets(line, n, em) != NULL )
        if (line[0] == 'S' && line[1] == 'V')
            return line;
    return NULL;
}

double getseconds(char *time)
{
    char hh[3], mm[3];
    double hsec, msec, sec;

    strncpy(hh, &time[0], 2);
    hh[2] = '\0';
    strncpy(mm, &time[3], 2);
    mm[2] = '\0';
    hsec = strtod(hh, NULL) * 3600.0;
    msec = strtod(mm, NULL) * 60.0;
    sec = strtod(&time[6], NULL);
    return hsec + msec + sec;
    /*return atof(hh) * 3600.0 + atof(mm) * 60.0 + atof(&time[6]); */
}
```

The following C computer code is used to make drift corrections to the magnetic data collected using the G-858 magnetometer. Base station magnetic readings are collected using the G-856 magnetometer. Note that the time stamps for the two magnetometers are synchronized and set to local time.

Program:

```
/* Written by: Laura Connor, Programmer
 *           SWRI - Div09
 * Last Modified: January 6, 1998

 * Description: This code determines magnetometer base station drift relative
to
                the first day, first base station reading, and adjusts measured
                magnetometer readings to remove this drift effect.

 * History:   Based on True Basic code written by Charles Connor
                Translated to C and modified, by Laura Connor, 12-97

 * Inputs:   first day base station mag reading
                .dnl file from base station magnetometer
                data file

 * Outputs:  data file (with 'D' appended to input file name)

 * Data file format (input and output):
                easting northing mag-reading(nT) time(HH:MM:SS.SS)

 * Usage:   drift <first day mag reading(nT)> <base station file> <input file>
 */

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <math.h>

typedef struct{
    double time;
    double mag;
} STATION;

int main(int argc, char *argv[])
{
    STATION *base;
    double first_day_const, drift_const;
    double total_drift;
    double hours, minutes, seconds, time, part, mag_time;
    double x, y, mag, slope, xtra_drift;
    char line[80], *tok = ":", *tok2 = " ",
        dtime[12], timebuf[12], *str, *fstr,
        *fstr6 = "%s %s %s %lf %s %lf",
        *fstr5 = "%s %s %lf %s %lf";
    int i, ct, ret, found, len, Lnum;
    char outfile[255], buf[255], *ext;
    FILE *in, *out, *basename;
```

```
    if (argc < 4)
    { fprintf(stderr,
        "Usage: %s <first day mag reading(nT)> <base station file> <input
file>\n",
        argv[0]);
        return(1);
    }

    in = fopen(argv[3], "r");
    if (in == NULL)
    { fprintf(stderr, "Unable to open input file: %s\n", argv[3]);
        return(1);
    }

    len = strlen(argv[3]);
    ext = strchr(argv[3], '.');
    if (ext == NULL)
    { fprintf(stderr, "No valid extension on input filename: %s\n", argv[3]);
        return(1);
    }
    strcpy(buf, argv[3]);
    for (i=0; i<len; i++)
        if (buf[i] == '.') break;

    strncpy(outfile, buf, i);
    outfile[i] = 'D';
    outfile[i+1] = '\0';
    strcat(outfile, ext);

    out = fopen(outfile, "w");
    if (out == NULL)
    { fprintf(stderr, "Unable to open output file: %s\n", outfile);
        return(1);
    }
    printf("Creating output file: %s\n", outfile);

    first_day_const = atof(argv[1]);
    basename = fopen(argv[2], "r");
    if (basename == NULL)
    { fprintf(stderr, "Unable to open %s \n", argv[2]);
        return(1);
    }

    /* Get first line and count items on line
     * to determine format string for file */
    ct = 0;
    fgets(line, 80, basename);
    if (line == NULL)
    { fprintf(stderr, "No lines in %s\n", argv[2]);
        return(1);
    }
    strtok(line, " ");
    ct++;
    while ( (strtok(NULL, " ")) != NULL )
        ct++;
    if (ct == 6)
        fstr = fstr6;
```

```
else
    fstr = fstr5;

ct = 1;
while ( fgets(line, 80, basename) != NULL )
{ /*printf("%s\n", line); */
    ct++;
}
printf("Number of base station mag readings: %d\n", ct);
rewind(basename);

base = (STATION *)malloc( ct * sizeof(STATION) );
if (base == NULL)
{ fprintf(stderr, "MALLOC ERROR: base\n");
    return(1);
}

for(i=0; i<ct; i++)
{ ret = fscanf(basename, fstr,
    &time, &mag);
    if (ret == EOF)
    { fprintf(stderr, "EOF encountered\n");
        return(1);
    }

    if (ret != 2)
    { fprintf(stderr, "Problem reading data at line %d\n", i);
        return(1);
    }

    if (!time || !mag)
    { fprintf(stderr, "Zero value encountered on line %d\n", i);
        return(1);
    }

    part = modf(time/10000.0, &hours);
    hours *= 3600.0;
    part *= 100.0;
    part = modf(part, &minutes);
    minutes *= 60.0;
    seconds = part * 100.0;
    base[i].time = seconds + minutes + hours;
    base[i].mag = mag/10.0;
}
drift_const = first_day_const - base[0].mag;

found = ct-1;
Lnum = 1;
while (ret = fscanf(in, "%lf %lf %lf %s", &x, &y, &mag, dtime), ret != EOF)
{ if (ret != 4)
    { fprintf(stderr, "ERROR reading line %d\n", Lnum);
        return(1);
    }
    strcpy(timebuf, dtime);
    str = strtok(dtime, tok);
    hours = atof(str) * 3600.0;
    str = strtok(NULL, tok);
```

```
minutes = atof(str) * 60.0;
str = strtok(NULL, tok);
seconds = atof(str);
/* printf("%.2f %.2f %.2f\n", hours, minutes, seconds); */
mag_time = hours + minutes + seconds;
Lnum++;
for (i=found; i > 0; i--)
{ if (base[i].time < mag_time)
    { found = i;
      total_drift = base[i+1].mag - base[0].mag;
      slope = (base[i+1].mag - base[i].mag) / (base[i+1].time -
base[i].time);
      xtra_drift = slope * (mag_time - base[i+1].time);
      total_drift += xtra_drift + drift_const;
      break;
    }
}
fprintf(out, "%.10f %.10f %.1f %s\n",
        x, y, mag - total_drift, /* total_drift, */ timebuf);
}
fclose(in);
fclose(out);
fclose(basename);
printf("Done.\n");
return(0);
}
```

The following computer code written in C and collates GPS and magnetic readings using a file provided from the Geometrics 858 magnetometer as input.

Program:

```
/* Written by: Laura Connor, Programmer
 *           SWRI - Div09
 * Last Modified: January 6, 1998

 * Description: This code associates location data, gathered with a GPS unit,
and magnetometer readings. If the magnetometer collects data faster
than the GPS units can acquire locations, the extra location data is
interpolated using a linear interpolation method.

 * History: Written by Laura Connor, 12-97.

 * Inputs: data file

 * Data file format (input): .stn file generated from mag unit data transfer

 * Outputs: data file (with 'xyz' appended to input file name, replacing
'.stn')

 * Data file format (output):
        easting(lon) northing(lat) mag-reading(nT*10) time(HH:MM:SS.SS)

 * Usage: stn2xyz <input file>
 */

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <math.h>

char *getGPSline(FILE *in, char *line, int n);

typedef struct {
    double lat;
    double lon;
} LOCATION;

typedef struct {
    LOCATION loc;
    double mag;
    char time[12];
} READING;

int main(char argc, char *argv[])
{
    READING reading[25];
    int i, cnt, len;
    char line[256], *str, *token = ",\n", *tok2 = " \n";
    double xdist, ydist, xintv, yintv, fp, ip;
    LOCATION gps1, gps2;
```

```
char *ret, outfile[255];
FILE *in, *out;

if (argc < 2)
{ fprintf(stderr, "Usage: %s <input file>\n", argv[0]);
  return(0);
}

in = fopen(argv[1], "r");
if (in == NULL)
{ fprintf(stderr, "Unable to open input file: %s\n", argv[1]);
  return(1);
}

len = strlen(argv[1]);
strncpy(outfile, argv[1], len-3);
outfile[len-3] = '\\0';
strncat(outfile, "xyz", 3);
out = fopen(outfile, "w");
if (out == NULL)
{ fprintf(stderr,
  "Unable to open output file: %s\n", outfile);
  return(1);
}
printf("Creating output file: %s\n", outfile);

if ( getGPSline(in, line, 256) == NULL ) return(0);
/* printf("%s\n", line); */

strtok(line, token);
strtok(NULL, token);
str = strtok(NULL, token);
if (str == NULL) return(1);
/* printf("%s ", str); */
if (strlen(str) > 2)
{ gps2.lat = atof(str)/100.0;
  fp = modf(gps2.lat, &ip);
  fp *= 100.0;
  fp /= 60.0;
  gps2.lat = ip + fp;
}
else printf("%s\n", str);
str = strtok(NULL, token);
if (str[0] == 'S') gps2.lat *= -1;
str = strtok(NULL, token);
if (str == NULL) return(1);
/* printf("%s\n", str); */
if (strlen(str) > 2)
{ gps2.lon = atof(str)/100.0;
  fp = modf(gps2.lon, &ip);
  fp *= 100.0;
  fp /= 60.0;
  gps2.lon = ip + fp;
}
else printf("%s\n", str);
str = strtok(NULL, token);
if (str[0] == 'W') gps2.lon *= -1;
```



```
/* printf("Latitude: %.8f, Longitude: %.8f\n", gps2.lat, gps2.lon); */
/* Count number of mag readings */

do
{ cnt = 0;
  for (i=0; i<25; i++)
  { ret = fgets(line, 256, in);
    if (ret == NULL) break;
    if (line[0] == '2' && line[1] == '1') break;
    if (line[0] != '0') continue;
    str = strtok(line, tok2);
    while ( strlen(str) < 2 )
      str = strtok(NULL, tok2);
    reading[cnt].mag = atof(str);
    str = strtok(NULL, tok2);
    while ( strlen(str) < 2 )
      str = strtok(NULL, tok2);
    str = strtok(NULL, tok2);
    while ( strlen(str) < 2 )
      str = strtok(NULL, tok2);
    strncpy(reading[cnt].time, str, 11);
    reading[cnt].time[11] = '\0';
    printf("%.3f %s\n", reading[cnt].mag, reading[cnt].time);
    cnt++;
  }

  strtok(line, token);
  strtok(NULL, token);
  str = strtok(NULL, token);
  if (str == NULL) continue;
  /* printf("%s ", str); */
  if (strlen(str) > 2)
  { gps1.lat = atof(str)/100.0;
    fp = modf(gps1.lat, &ip);
    fp *= 100.0;
    fp /= 60.0;
    gps1.lat = ip + fp;
  }
  else continue;
  str = strtok(NULL, token);
  if (str[0] == 'S') gps1.lat *= -1;
  str = strtok(NULL, token);
  if (str == NULL) continue;
  /* printf("%s\n", str); */
  if (strlen(str) > 2)
  { gps1.lon = atof(str)/100.0;
    fp = modf(gps1.lon, &ip);
    fp *= 100.0;
    fp /= 60.0;
    gps1.lon = ip + fp;
  }
  else continue;
  str = strtok(NULL, token);
  if (str[0] == 'W') gps1.lon *= -1;
  /* printf("Latitude: %.8f, Longitude: %.8f\n", gps1.lat, gps1.lon); */
  if (cnt)
  { if (cnt > 1)
```

```
    { xdist = gps2.lon - gps1.lon;
      ydist = gps2.lat - gps1.lat;
      xintv = xdist/(cnt-1);
      yintv = ydist/(cnt-1);
    }
    reading[0].loc.lat = gps2.lat;
    reading[0].loc.lon = gps2.lon;
    fprintf(out, "%.10f %.10f %.3f %s\n",
            reading[0].loc.lon, reading[0].loc.lat, reading[0].mag,
reading[0].time);
    for (i=1; i<cnt; i++)
    { reading[i].loc.lat = reading[i-1].loc.lat - yintv;
      reading[i].loc.lon = reading[i-1].loc.lon - xintv;
      fprintf(out, "%.10f %.10f %.3f %s\n",
            reading[i].loc.lon, reading[i].loc.lat, reading[i].mag,
reading[i].time);
      printf( "%.10f %.10f %.3f %s\n",
            reading[i].loc.lon, reading[i].loc.lat, reading[i].mag,
reading[i].time);
    }
    }
    gps2.lat = gps1.lat;
    gps2.lon = gps1.lon;
    } while (ret != NULL);
    fclose(in);
    fclose(out);
    printf("Done.\n");
    return(0);
}

char *getGPSline(FILE *in, char *line, int n)
{
    /* while ( gets(line) != NULL ) */
    while ( fgets(line, n, in) != NULL )
        if (line[0] == '2' && line[1] == '1')
            return line;
    return NULL;
}
```

The following computer code converts latitude and longitude coordinates to UTM NAD83 coordinates. This is used to convert data stored by the GPS in Lat/Long to a more useful coordinate system for map data on a small scale. The original code was written by the National Defence Mapping Agency. This code has been checked by comparing it to solutions obtained from earlier versions of this code, plus by comparing solutions obtained from GPS software (NovAtel) and Arc/info computer software.

Program:

```
/* Written by: Laura Connor, programmer
 *           SWRI - Div09
 * Last Modified: January 6, 1998
 * Description:
 *   This code converts latitude/longitude coordinates into UTM coordinates
 *   using the NAD83 ellipsoid (State Plane Coordinate Systems,
 *   North American Datum 1983).

 * History: Based on the National Defense Mapping Agency Program
 *           Translated from fortran to TrueBasic by Chuck Connor,
3-3-88
 *           Translated to MAC, by Chuck Connor, 5-24-89
 *           Translated to C, by Laura Connor, 12-97

 *   Inputs:  data file

 * Outputs: data file (with changed extension '.utm' added to input file name)

 *   Data file format (input):
 *           easting(lon) northing(lat) mag-reading(nT) time(HH:MM:SS.SS)

 *   Data file format (output):
 *           easting(UTM) northing(UTM) mag-reading(nT) time(HH:MM:SS.SS)

 * Usage:
 *           deg2nad83 <input file>
 */

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <math.h>

#define RADIUS_OF_ELLIPSOID 6378137.0
#define SQR_OF_ECCENTRICITY_OF_ELLIPSOID .0066943800229

int main(char argc, char *argv[])
{
    double a[16], b1[12];
    double r, lat, lon, mag;
    double x4;
    double fo, so, co, ro, to, t9, eo, q;
    double E, N, s5, c5;
    double lat1, lat2, lat3, lon1, lon2, lon3;
    int z, len;
```

```
char time[12], outfile[255];
FILE *in, *out;

if (argc < 2)
{ fprintf(stderr,
           "Usage: %s <input file>\n", argv[0]);
  return(0);
}

in = fopen(argv[1], "r");
if (in == NULL)
{ fprintf(stderr,
           "Unable to open input file: %s\n", argv[1]);
  return(1);
}

len = strlen(argv[1]);
strncpy(outfile, argv[1], len-3);

outfile[len-3] = '\0';
strncat(outfile, "utm", 3);
out = fopen(outfile, "w");
if (out == NULL)
{ fprintf(stderr,
           "Unable to open output file: %s\n", outfile);
  return(1);
}
printf("Creating output file: %s\n", outfile);
/* a[14] = RADIUS_OF_ELLIPSOID;
   a[15] = SQR_OF_ECCENTRICITY_OF_ELLIPSOID;
*/
a[14] = 6378137.0;
a[15] = .0066943800229;

a[9] = (((a[15] * (7.0/32.0) + 5.0/16.0) * a[15] + .5) * a[15] + 1.0 ) *
a[15] * .25;
a[0] = -((((a[9] * (195.0/64.0) + 3.25) * a[9] + 3.75) * a[9] + 3.0) *
a[9]);
a[1] = ((1455.0/32.0 * a[9] + 70.0/3.0) * a[9] + 7.5) * a[9] * a[9];
a[2] = -((70.0/3.0 + a[9] * (945.0/8.0)) * a[9] * a[9] * a[9]);
a[3] = 315.0/4.0 * a[9] * a[9] * a[9] * a[9];
a[10] = (((7.75 - 657.0/64.0 * a[9]) * a[9] - 5.25) * a[9] + 3.0) * a[9];
a[11] = ((5045.0/32.0 * a[9] - 151.0/3.0) * a[9] + 10.5) * a[9] * a[9];
a[12] = (151.0/3.0 - 3291.0/8.0 * a[9]) * a[9] * a[9] * a[9];
a[13] = 1097.0/4.0 * a[9] * a[9] * a[9] * a[9];

fo = a[9] * a[9];
a[9] = ((225.0/64.0 * fo + 2.25) * fo + 1.0) * (1.0 - fo) * (1.0 - a[9]) *
a[14];
r = 206264.806247;
a[4] = 500000.0;
a[7] = .9996;
a[6] = 0.0;
a[5] = 0.0;

while ( fscanf(in, "%lf %lf %lf %s", &lon, &lat, &mag, time) != EOF )
{ z = 0;
```

```
lon -= 360.0;
lon *= 3600.0;

lat *= 3600.0;

/* Compute the latitude */
x4 = fabs(lat);
modf(x4/3600.0, &lat1);
/*
    x4 = (x4/3600.0 - lat1) * 60.0;
    modf(x4, &lat2);
    lat3 = (x4 - lat2) * 60.0;
*/
if (lat < 0.0) lat1 = -lat1;

/* Compute the longitude */
x4 = fabs(lon);
/* modf(x4/3600.0, &lon1);
    x4 = (x4/3600.0 - lon1) * 60.0;
    modf(x4, &lon2);
    lon3 = (x4 - lon2) * 60.0;

    if (lon < 0) lon1 = -lon1;
*/

if (fabs(lat) > 302400.0)
{ E = 0.0;
  N = 0.0;

  /*s5 = 0.0;
  c5 = 0.0;
  */
}
else
{ z = (int)(30.0 + (lon/21600.0));

  if (z > 30) a[8] = ( ((double)z - 30.0) * 6.0 - 3.0) * 3600.0;
  else a[8] = ((30.0 - (double)z) * 6.0 + 3.0) * -3600.0;

  b1[9] = (lon - a[8])/r;

  b1[8] = lat / r;
  so = sin(b1[8]);
  co = cos(b1[8]);
  ro = a[14] / (sqrt(1.0 - a[15] * so * so));
  to = so / co;
  t9 = to * to;
  b1[10] = co * co;
  eo = a[15] * b1[10] / (1.0 - a[15]);
  b1[0] = ro * co;
  b1[2] = (1.0 - t9 + eo) * b1[0] * b1[10] / 6.0;
  b1[4] = ((t9 - 18.0) * t9 + 5.0 + (14.0 - 58.0 * t9) * eo) * b1[0]
* b1[10] * b1[10] / 120.0;

  b1[6] = (((179.0 - t9) * t9 - 479.0) * t9 + 61.0) * b1[0] * b1[10]
* b1[10] * b1[10] / 5040.0;
```

```

        b1[11] = b1[9] * b1[9];

        /* Calculate the easting */
        E = (((b1[6] * b1[11] + b1[4]) * b1[11] + b1[2]) * b1[11] + b1[0])
* b1[9] * a[7] + a[4];

        b1[1] = ro * b1[10] * to / 2.0;
        b1[3] = (eo * (9.0 + 4.0 * eo) + 5.0 - t9) * b1[1] * b1[10] /
12.0;
        b1[5] = ((t9 - 58.0) * t9 + 61.0 + (270.0 - 330.0 * t9) * eo) *
b1[1] * b1[10] * b1[10] / 360.0;
        b1[7] = (((543.0 - t9) * t9 - 3111.0) * t9 + 1385.0) * b1[1] *
b1[10] * b1[10] * b1[10] / 20160.0;

        /* Calculate the northing */
        N = (((b1[7] * b1[11] + b1[5]) * b1[11] + b1[3]) * b1[11] + b1[1])
* b1[11];
        N += (((a[3] * b1[10] + a[2]) * b1[10] + a[1]) * b1[10] + a[0]) *
so * co + b1[8]) * a[9];
        N = (N - a[6]) * a[7] + a[5];

        if (lat1 < 0) N += 10000000.0;

        /* Compute the scale factor (s5) */
        /* s5 = (((-(24.0 * eo) - 48.0) * eo - 28.0) * eo - 4.0) * t9 +
(((4.0 * eo + 13.0) * eo + 14.0) * eo + 5.0);
        s5 = s5 * (b1[9] * b1[9] * b1[9] * b1[9] / 24.0) * b1[10] *
b1[10] +
                (1.0 + eo) * b1[10] * b1[9] * b1[9] / 2.0 + 1.0;
        s5 *= a[7];
        */

        /* Compute the convergence */
        /* q = 1.0 + b1[9] * b1[9] * b1[10] / 3.0 * (1.0 + 3.0 * eo + 2.0
* eo + eo) +
                b1[9] * b1[9] * b1[9] * b1[9] * (b1[10] * b1[10] / 15.0) *
(2.0 - t9);
        c5 = b1[9] * so * q * r;
        */
    }
    fprintf(out, "%.2f %.2f %.3f %s\n", E, N, mag, time);
/*    printf("Zone: %d Lon: %d:%d:%f Lat: %d:%d:%f\n ", z,
(int)lon1,(int)lon2,lon3,(int)lat1,(int)lat2,lat3); */
    }
    fclose(in);
    fclose(out);
    printf("Done\n");
    return(0);
}

```

The following computer program subtracts the international geomagnetic reference field from input magnetic data sets. This code has been tested against codes by the US Geological Survey (IGRF.FOR, 1983) and found to give the same answer.

Program:

```
/* Written by: Laura Connor, Programmer
 *              SWRI - Div09
 * Last Modified: January 6, 1998

 * Description: This code performs an IGRF correction on a dataset of
magnetometer
                readings. Uses -- Geodetic coords
                -- zero altitude.
                -- 1985 IGRF (EOS June17,1986,523)
                -- SV coeffs for 1985-1990
                        (i.e. good only for after 1985)

 * History: Modified from algorithm of Malin and Barraclough
            (Computers and Geo-sciences, v. 7, no. 4, pp. 401-405, 1981).
            Translated from fortran to true basic by Charles Connor.
            Translated from true basic to C, by Laura Connor, 12-97.

 * Inputs: the year the readings were collected (ie. 1998)
            data file

 * Outputs: data file (with 'I' appended to input file name)

 * Data file format (input and output):
            easting northing mag-reading(nT) time(HH:MM:SS.SS)

 * Usage:  igrf <year> <input file>
 */

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <math.h>

void locate(double lat, double lon, double *colat, double *elong);

double crunch(double *gh, double *sv, double daaat, double colat,
              double elong);

int main(int argc, char *argv[])
{
    double GH[] =
        { 0.0, -29877.0, -1903.0, 5497.0, -2073.0, 3045.0, -2191.0,
          1691.0, -309.0, 1300.0, -2208.0, -312.0, 1244.0, 284.0,
          835.0, -296.0, 937.0, 780.0, 233.0, 363.0, -250.0,
          -426.0, 68.0, 169.0, -298.0, -215.0, 356.0, 47.0, 253.0,
          148.0, -94.0, -155.0, -161.0, -75.0, -48.0, 95.0, 52.0,
          65.0, -16.0, 50.0, 90.0, -186.0, 69.0, 4.0, -50.0, 17.0,
          -4.0, -102.0, 20.0, 75.0, -61.0, -82.0, 2.0, -26.0,
```

```
        24.0, -1.0, -6.0, 23.0, 4.0, 17.0, 9.0, -21.0, 0.0,
        -6.0, 21.0, 6.0, 7.0, 0.0, -21.0, -11.0, 5.0, -9.0,
        -25.0, 2.0, 11.0, 4.0, 12.0, 4.0, -16.0, -6.0, -10.0
    };
double SV[] =
    { 0.0, 23.2, 10.0, -24.5, -13.7, 3.4, -11.5, 7.0, -20.2,
      5.1, -4.6, 5.3, -0.6, 2.3, 0.1, -10.8, 0.1, -0.6, 3.8,
      -7.8, 2.2, -1.4, 2.5, -6.8, 0.9, 1.3, 0.1, 0.1, -1.5,
      -0.2, -3.2, -0.1, 0.1, 0.6, -0.1, 0.0, 1.4, -0.3, -0.4,
      1.7, -1.1, 0.6, -0.8, 0.0, -2.3, 0.9, -0.5, 1.2, -0.1,
      0.2, -0.6, 0.2, -0.5, 1.0, 0.8, 1.1, 1.0, 1.9, 0.4, 0.3,
      -0.5, 0.2, -0.1, 0.9, 0.7, 0.0, 0.1, 0.3, -1.0, 0.4, 0.1,
      -0.3, -0.8, -0.3, 0.2, 0.1, -0.8, -0.5, -0.1, -0.8, 1.3
    };
double easting, northing, igrf;
double mag, daaat, colat, elong;
int i, len, ct, ret;
char outfile[255], buf[255], *ext, time[12];
FILE *in, *out;

if (argc < 3)
{ fprintf(stderr, "Usage: %s <year> <input file>\n", argv[0]);
  return(1);
}

in = fopen(argv[2], "r");
if (in == NULL)
{ fprintf(stderr, "Unable to open input file: %s\n", argv[2]);
  return(1);
}

len = strlen(argv[2]);
ext = strchr(argv[2], '.');
if (ext == NULL)
{ fprintf(stderr, "No valid extension on input filename: %s\n",
  argv[2]);
  return(1);
}
strcpy(buf, argv[2]);
for (i=0; i<len; i++)
    if (buf[i] == '.') break;

strncpy(outfile, buf, i);
outfile[i] = 'I';
outfile[i+1] = '\0';
strcat(outfile, ext);

out = fopen(outfile, "w");
if (out == NULL)
{ fprintf(stderr, "Unable to open output file: %s\n", outfile);
  return(1);
}
printf("Creating output file: %s\n", outfile);

daaat = atof(argv[1]);
ct = 0;
while (ret = fscanf(in, "%lf %lf %lf %s", &easting, &northing, &mag, time),
```



```
        ret != EOF)
    { ct++;
      /* printf("%.2f %.2f %.1f\n",easting, northing, mag); */
      if (ret != 4)
      { fprintf(stderr, "Error inputting data line %d.\n", ct);
        return(1);
      }

      /* Find location in 4-space */
      locate(northing, easting, &colat, &elong);
      igrf = crunch(GH, SV, daaat, colat, elong);

      fprintf(out, "%.10f %.10f %.3f %s\n",
              easting, northing, mag - igrf, time);
    }
    fclose(in);
    fclose(out);
    printf("Done\n");
    return(0);
}

void locate(double lat, double lon, double *colat, double *elong)
{
    *colat = 90.0 - lat;
    *elong = (lon < 0.0) ? 360.0 + lon : lon;
}

double crunch(double *GH, double *SV, double daaat, double colat,
              double elong)
{
    double P[46], Q[46], CL[9], SL[9];
    double T, R, ONE, CT, ST, CD, A2, B2, rho, TWO, THREE, ratio, RR;
    double X = 0.0, Y = 0.0, Z = 0.0, SD = 0.0;

    int L, LL = 0, I, J, K, M, N = 0;
    double F1N, GN, GM, FM;

    /* Assume height above sea level to be zero
       since GPS cannot give accurate height information.
       Height has small effect on correctness of IGRF correction. */
    double alt = 0.0;

    T = daaat - 1980.0;    /* T must be > 0 for LL to always be 0 */
    R = alt;
    ONE = colat * 0.0174533;
    CT = cos(ONE);
    ST = sin(ONE);
    ONE = elong * 0.0174533;
    CL[1] = cos(ONE);
    SL[1] = sin(ONE);
    CD = 1.0;

    /* Conversion from geodetic to geocentric coordinates */
    A2 = 40680925.0;
    B2 = 40408585.0;
    ONE = A2 * ST * ST;
    TWO = B2 * CT * CT;
```

```
THREE = ONE + TWO;
rho = sqrt(THREE);
R = sqrt(alt * (alt + 2.0 * rho) + (A2 * ONE + B2 * TWO)/THREE);
CD = (alt + rho)/R;
SD = (A2 - B2)/rho * CT * ST/R;
ONE = CT;
CT = CT * CD - ST * SD;
ST = ST * CD + ONE * SD;
ratio = 6371.2/R;
RR = ratio * ratio;

/* Computation of Schmidt quasi-normalized coefficients P and X (=Q) */
P[0] = 0.0; /* NOT used */
P[1] = 1.0;
P[3] = ST;
Q[0] = 0.0; /* NOT used */
Q[1] = 0.0;
Q[3] = CT;

M = 1;
L = 1;
for (K = 2; K < 46; K++)
{ if (N < M)
  { M = 0;
    N++;
    RR *= ratio;
    FlN = (double)N;
    GN = (double)N - 1.0;
  }
  FM = (double)M;
  if (M != N)
  { GM = (double)M * (double)M;
    ONE = sqrt(FlN * FlN - GM);
    TWO = sqrt(GN * GN - GM)/ONE;
    THREE = (FlN + GN)/ONE;
    I = K - N;
    J = I - N + 1;
    P[K] = (THREE * CT * P[I]) - (TWO * P[J]);
    Q[K] = THREE * (CT * Q[I] - ST * P[I]) - TWO * Q[J];
  }
  else if (K != 3)
  { ONE = sqrt(1.0 - .5/FM);
    J = K - N - 1;
    P[K] = ONE * ST * P[J];
    Q[K] = ONE * (ST * Q[J] + CT * P[J]);
    CL[M] = (CL[M-1] * CL[1]) - (SL[M-1] * SL[1]);
    SL[M] = (SL[M-1] * CL[1]) + (CL[M-1] * SL[1]);
  }

  /* Synthesis of X, Y, Z */
  ONE = (GH[L] + SV[LL + L] * T) * RR; /* 4 */
  if (!M)
  { X += ONE * Q[K];
    Z -= (FlN + 1.0) * ONE * P[K];
    L++;
  }
  else
```

```
{ TWO = (GH[L + 1] + SV[LL + L + 1] * T) * RR;
  THREE = ONE * CL[M] + TWO * SL[M];
  X += THREE * Q[K];
  Z -= (F1N + 1.0) * THREE * P[K];
  Y += (ST) ?
      (ONE * SL[M] - TWO * CL[M]) * FM * P[K]/ST :
      (ONE * SL[M] - TWO * CL[M]) * Q[K] * CT;
  L += 2;
}
M++;
}

/* Convert to proper coordinate system */
ONE = X;
X = X * CD + Z * SD;
Z = Z * CD - ONE * SD;

/* Not used here but calculated in original code:
   decl = atan(Y/X) / 0.0174533;
   HRZ = sqrt(X*X + Y*Y);
   incl = atan(Z/HRZ) / 0.0174533;
*/
return sqrt(X*X + Y*Y + Z*Z);
/* printf("X = %f  Y = %f  Z = %f  F = %f\n", X, Y, Z, F);
   printf("\n");
   return F; */
}
```

Electrical sounding data from the southern Crater Flat fault survey. These data were collected using a Geonics EM-34. Data are reported using the following notion

Stn - station number

Easting - UTM coordinate WGS83 projection

Northing - UTM coordinate WGS83 projection

distance (m) - distance from station 0 in meters

10 m H (n) - ten meter coil separation with horizontal loop (vertical dipole) and array centered on stake and trending north

10 m V (n) - ten meter coil separation with vertical loop (horizontal dipole) and array centered on stake and trending north

20 m H (n) - 20 meter coil separation with horizontal loop (vertical dipole) and array centered on stake and trending north

20 m V (n) - 20 meter coil separation with vertical loop (horizontal dipole) and array centered on stake and trending north

40 m H (n) - 40 meter coil separation with horizontal loop (vertical dipole) and array centered on stake and trending north

40 mV (n) - 40 meter coil separation with vertical loop (horizontal dipole) and array centered on stake and trending north

10 m H (e) - ten meter coil separation with horizontal loop (vertical dipole) and array centered on stake and trending east

10 m V (e) - ten meter coil separation with vertical loop (horizontal dipole) and array centered on stake and trending east

20 m H (e) - 20 meter coil separation with horizontal loop (vertical dipole) and array centered on stake and trending east

20 m V (e) - 20 meter coil separation with vertical loop (horizontal dipole) and array centered on stake and trending east

40 m H (e) - 40 meter coil separation with horizontal loop (vertical dipole) and array centered on stake and trending east

40 mV (e) - 40 meter coil separation with vertical loop (horizontal dipole) and array centered on stake and trending east

Data:

| Stn | Easting | Northing | distance (m) | 10m H (n) | 10 m V (n) | 20 m H (n) |
|-----|------------|------------|--------------|------------|------------|------------|
| (n) | 20 m V (n) | 40 m H (n) | 40 m V (n) | 10 m H (e) | 10 m V (e) | 20 m H (e) |
| | 20 m V (e) | 40 m H (e) | 40 m V (e) | | | |

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| | | | | | | |
|--------|--------|---------|--------|--------|--------|--------|
| 0.0000 | 542031 | 4068462 | 0.0000 | 3.0300 | 5.1600 | 4.4200 |
| 3.6800 | 3.8000 | 3.8500 | 1.4200 | 6.8000 | 3.5600 | |
| 5.2800 | 4.1600 | 2.9000 | | | | |

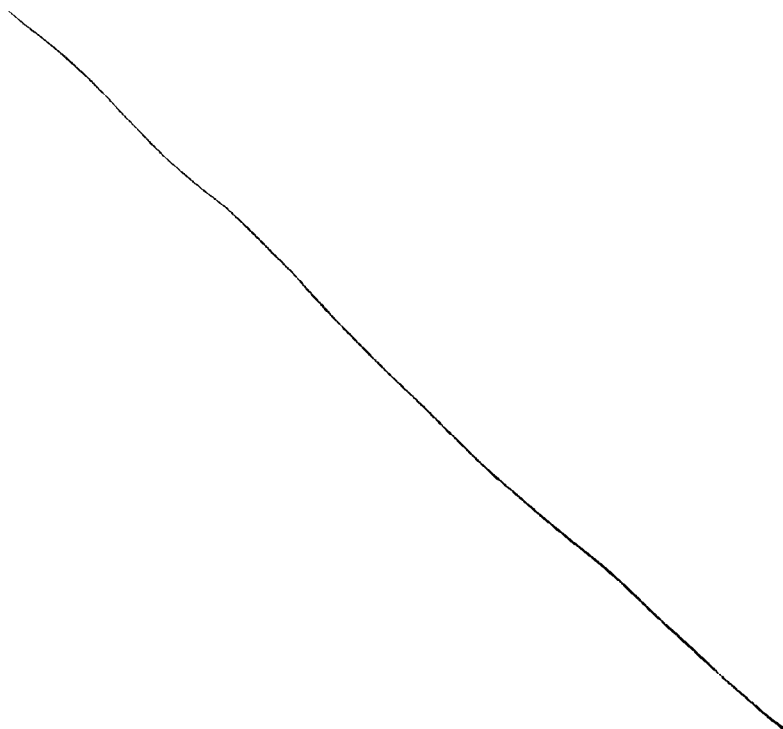
| | | | | | | |
|--------|--------|---------|--------|--------|--------|--------|
| 1.0000 | 541938 | 4068478 | 94.366 | 5.3500 | 6.8000 | 4.4600 |
| 5.3800 | 3.6300 | 3.7000 | 4.9000 | 6.0400 | 3.8600 | |
| 5.2500 | 6.3000 | 4.0200 | | | | |

| | | | | | | |
|--------|--------|---------|--------|--------|--------|--------|
| 2.0000 | 541877 | 4068497 | 157.93 | 3.9600 | 6.2400 | 3.7900 |
| 5.2400 | 3.8900 | 3.0600 | 2.7500 | 4.1400 | 3.5500 | |
| 3.4300 | 3.2000 | 1.3000 | | | | |

| | | | | | | |
|---------|--------|---------|--------|--------|--------|--------|
| 3.0000 | 541827 | 4068516 | 211.03 | 2.7500 | 2.6000 | 4.7800 |
| 2.7200 | 4.4300 | 1.9300 | 2.5700 | 2.6000 | 3.2000 | |
| 0.80000 | 4.3500 | 0.99000 | | | | |

| | | | | | | |
|--------|--------|---------|--------|--------|--------|--------|
| 4.0000 | 541774 | 4068533 | 266.63 | 3.1400 | 2.3900 | 4.4900 |
| 2.7600 | 5.3600 | 2.7400 | 2.9200 | 2.4400 | 4.1800 | |
| 3.1300 | 4.1700 | 2.7300 | | | | |

| | | | | | | |
|--------|--------|---------|--------|--------|--------|--------|
| 5.0000 | 541713 | 4068554 | 331.04 | 3.6500 | 2.2100 | 5.3000 |
| 2.9800 | 6.5200 | 3.2000 | 3.3000 | 2.3500 | 5.2800 | |
| 3.7600 | 6.5500 | 3.5000 | | | | |



Electrical Soundings collects on a traverse using a 20 m coil spacing (Geonics EM-34) and both horizontal loop (vertical dipole) and vertical loop (horizontal dipole) coil orientations

Data were collected on three traverses

east_ easting in UTM coordinates WGS84
north - northing in UTM coordinates WGS84
hloop cond- horizontal loop (vertical dipole) conductivity
vloop cond - vertical loop (horizontal dipole) conductivity

Traverse 1:

| east | north | hloop cond | vloop cond |
|--------|----------|------------|------------|
| 542045 | 4068624 | 4.9400 | 5.0800 |
| 542027 | 4068622 | 5.4100 | 5.5200 |
| 542010 | 4068620 | 6.6200 | 6.6600 |
| 541991 | 4068620 | 4.2000 | 6.2800 |
| 541972 | 4068619 | 4.4600 | 5.3800 |
| 541955 | 4068617 | 4.1300 | 5.0400 |
| 541936 | 4068617 | 4.4500 | 5.4100 |
| 541918 | 4068618 | 3.9800 | 4.1300 |
| 541899 | 4068616 | 2.9800 | 4.5900 |
| 541882 | 4068617 | 1.8600 | 3.1700 |
| 541863 | 4068622 | 5.4500 | 2.3100 |
| 541844 | 4068624 | 2.6700 | 2.3100 |
| 541826 | 4068626 | 3.2900 | 2.9300 |
| 541807 | 4068628 | 3.6800 | 3.4300 |
| 541788 | 4068629 | 4.2100 | 3.2200 |
| 541770 | 40686314 | 4.4100 | 3.0100 |
| 541751 | 406833 | 3.9200 | 3.3900 |
| 541730 | 4068635 | 4.4300 | 3.1300 |
| 541712 | 4068637 | 4.4700 | 2.1100 |

Traverse 2:

| easting | northing | vert dipole | hort dipole |
|---------|----------|-------------|-------------|
| 542050 | 4068720 | 3.9800 | 5.5800 |
| 542030 | 4068717 | 4.9100 | 5.4000 |
| 542010 | 4068720 | 5.3700 | 5.7000 |
| 541990 | 4068721 | 6.5400 | 4.6100 |
| 541970 | 4068720 | 4.8800 | 6.4400 |
| 541950 | 4068720 | 1.4600 | 4.6200 |
| 541930 | 4068720 | 4.5500 | 2.6800 |
| 541909 | 4068720 | 3.1900 | 1.4600 |
| 541890 | 4068720 | 3.1200 | 1.3300 |
| 541870 | 4068720 | 3.0100 | 0.77000 |
| 541850 | 4068720 | 3.6200 | 2.5100 |
| 541830 | 4068720 | 3.5200 | 1.8400 |
| 541810 | 4068722 | 5.0000 | 4.0700 |
| 541790 | 4068720 | 4.5300 | 2.7300 |
| 541770 | 4068719 | 4.7200 | 2.9800 |

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| | | | |
|--------|---------|--------|--------|
| 541750 | 4068720 | 4.1000 | 2.1900 |
| 541730 | 4068720 | 3.9200 | 2.5300 |
| 541710 | 4068720 | 4.1600 | 4.7000 |
| 541690 | 4068720 | 4.0500 | 2.7700 |
| 541670 | 4068720 | 4.3800 | 2.4000 |
| 541650 | 4068720 | 4.2600 | 3.4200 |
| 541630 | 4068720 | 4.5600 | 2.8300 |
| 541610 | 4068720 | 4.5100 | 3.2700 |

Traverse 3:

| eastings | northing | vert dipole | hort dipole |
|----------|-----------|-------------|-------------|
| 541561 | 406825152 | 6.2400 | 5.2300 |
| 541581 | 4068251 | 5.8600 | 5.1200 |
| 541601 | 4068255 | 5.7900 | 4.3300 |
| 541620 | 4068261 | 5.9100 | 4.2000 |
| 541640 | 4068268 | 5.2400 | 3.9800 |
| 541660 | 4068276 | 5.2100 | 3.9400 |
| 541680 | 4068284 | 4.8700 | 3.6200 |
| 541700 | 4068292 | 6.2600 | 3.0700 |
| 541721 | 4068299 | 4.6700 | 3.7500 |
| 541740 | 4068306 | 5.3400 | 4.1000 |
| 541760 | 4068315 | 5.4800 | 3.8400 |
| 541781 | 4068322 | 3.3400 | 3.1800 |
| 541800 | 406332 | 4.9700 | 3.2300 |
| 541821 | 4068341 | 5.0400 | 2.5800 |
| 541840 | 4068351 | 3.8700 | 4.3800 |
| 541860 | 4068362 | 3.1100 | 4.8800 |
| 541881 | 4068373 | 3.8400 | 5.5100 |
| 541900 | 4068377 | 2.6600 | 5.3900 |
| 541920 | 4068383 | 4.4700 | 4.3200 |
| 541940 | 4068391 | 4.4600 | 3.5600 |
| 541961 | 4068397 | 3.2200 | 3.8900 |
| 541980 | 4068403 | 4.9800 | 3.9600 |
| 542000 | 4068409 | 3.1900 | 4.1300 |
| 542020 | 4068415 | 3.1900 | 4.4400 |
| 542040 | 4068421 | 4.5500 | 4.0200 |
| 542060 | 4068428 | 1.3300 | 4.6000 |
| 542080 | 4068436 | 3.7200 | 5.3300 |
| 542100 | 4068440 | 2.9400 | 5.9800 |
| 542120 | 4068447 | 3.2000 | 4.4400 |
| 542140 | 4068455 | 2.7700 | 4.8800 |

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EM-31 data collected across the Southern Crater Flat Fault in April, 1998

Columns are shown as

Easting- UTM coordinate WGS84
Northing - UTM coordinate WGS84
Quadrature - mS/m
Elevation - m
Inphase - parts per thousand
Time -Seconds

Data:

| | | | | | |
|-----------|------------|------|--------|-------|----------|
| 541823.10 | 4068390.00 | 2.49 | 903.30 | -1.89 | 69660.00 |
| 541823.10 | 4068390.00 | 3.25 | 903.30 | -2.01 | 69661.00 |
| 541823.10 | 4068389.80 | 2.58 | 903.30 | -2.09 | 69663.00 |
| 541823.10 | 4068388.40 | 2.44 | 903.00 | -2.22 | 69665.00 |
| 541823.00 | 4068386.70 | 2.86 | 902.80 | -2.31 | 69667.00 |
| 541823.00 | 4068384.80 | 2.94 | 902.50 | -2.23 | 69669.00 |
| 541822.70 | 4068382.60 | 3.14 | 902.30 | -2.37 | 69671.00 |
| 541822.70 | 4068380.20 | 3.09 | 902.20 | -2.27 | 69673.00 |
| 541822.90 | 4068378.00 | 3.02 | 902.30 | -2.31 | 69675.00 |
| 541822.80 | 4068375.90 | 2.74 | 902.40 | -2.25 | 69677.00 |
| 541822.80 | 4068373.70 | 2.36 | 902.50 | -2.21 | 69679.00 |
| 541822.80 | 4068371.50 | 2.73 | 902.60 | -2.26 | 69681.00 |
| 541822.70 | 4068369.40 | 2.79 | 902.50 | -2.16 | 69683.00 |
| 541822.70 | 4068367.10 | 2.33 | 902.50 | -2.17 | 69685.00 |
| 541822.50 | 4068365.00 | 2.69 | 902.50 | -2.15 | 69687.00 |
| 541822.60 | 4068362.90 | 2.73 | 902.40 | -2.18 | 69689.00 |
| 541822.40 | 4068360.70 | 2.58 | 902.30 | -2.21 | 69691.00 |
| 541822.20 | 4068359.70 | 2.71 | 902.30 | -2.12 | 69692.00 |
| 541822.00 | 4068356.40 | 2.88 | 902.10 | -2.12 | 69695.00 |
| 541821.60 | 4068354.30 | 2.82 | 901.90 | -2.06 | 69697.00 |
| 541820.90 | 4068352.30 | 2.71 | 901.70 | -2.11 | 69699.00 |
| 541820.20 | 4068350.20 | 2.67 | 901.60 | -2.00 | 69701.00 |
| 541819.40 | 4068348.20 | 2.82 | 901.40 | -2.06 | 69703.00 |
| 541818.50 | 4068346.00 | 3.04 | 901.10 | -2.07 | 69705.00 |
| 541817.50 | 4068343.80 | 2.85 | 901.00 | -2.09 | 69707.00 |
| 541816.40 | 4068341.30 | 3.13 | 900.80 | -2.11 | 69709.00 |
| 541815.50 | 4068338.90 | 2.45 | 900.60 | -2.20 | 69711.00 |
| 541814.80 | 4068336.50 | 2.52 | 900.60 | -1.89 | 69713.00 |
| 541814.00 | 4068334.20 | 2.51 | 900.40 | -1.88 | 69715.00 |
| 541813.30 | 4068331.90 | 2.32 | 900.30 | -1.97 | 69717.00 |
| 541812.30 | 4068329.60 | 1.93 | 900.20 | -1.78 | 69719.00 |
| 541811.30 | 4068327.20 | 1.91 | 900.10 | -1.90 | 69721.00 |
| 541810.10 | 4068325.00 | 2.09 | 900.00 | -1.75 | 69723.00 |
| 541808.80 | 4068322.70 | 1.92 | 899.90 | -1.81 | 69725.00 |
| 541808.40 | 4068321.60 | 1.89 | 900.10 | -1.99 | 69726.00 |
| 541806.70 | 4068318.40 | 1.91 | 900.00 | -1.93 | 69729.00 |
| 541805.90 | 4068315.90 | 1.81 | 899.90 | -1.82 | 69731.00 |
| 541804.70 | 4068313.60 | 1.99 | 899.80 | -1.97 | 69733.00 |
| 541803.70 | 4068311.20 | 1.92 | 899.60 | -1.82 | 69735.00 |
| 541802.80 | 4068308.90 | 2.00 | 899.50 | -1.98 | 69737.00 |
| 541801.70 | 4068306.80 | 1.90 | 899.50 | -2.12 | 69739.00 |
| 541800.90 | 4068304.50 | 1.80 | 899.20 | -2.05 | 69741.00 |
| 541800.20 | 4068302.20 | 1.82 | 899.10 | -1.79 | 69743.00 |
| 541799.50 | 4068299.60 | 1.91 | 899.00 | -2.16 | 69745.00 |

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|-----------|------------|------|--------|-------|----------|
| 541799.20 | 4068297.10 | 1.78 | 898.80 | -1.91 | 69747.00 |
| 541798.90 | 4068294.40 | 2.11 | 898.60 | -1.97 | 69749.00 |
| 541798.60 | 4068291.80 | 2.13 | 898.50 | -1.84 | 69751.00 |
| 541797.80 | 4068289.20 | 2.06 | 898.50 | -1.70 | 69753.00 |
| 541797.30 | 4068286.80 | 1.88 | 898.70 | -1.81 | 69755.00 |
| 541796.90 | 4068284.40 | 1.77 | 898.70 | -1.76 | 69757.00 |
| 541796.50 | 4068282.20 | 1.81 | 898.70 | -1.60 | 69759.00 |
| 541795.80 | 4068279.80 | 1.81 | 898.80 | -1.90 | 69761.00 |
| 541794.70 | 4068277.40 | 1.80 | 898.90 | -1.87 | 69763.00 |
| 541793.70 | 4068275.10 | 1.54 | 899.00 | -2.23 | 69765.00 |
| 541792.30 | 4068272.90 | 1.71 | 898.90 | -2.06 | 69767.00 |
| 541790.90 | 4068270.60 | 1.69 | 898.90 | -2.06 | 69769.00 |
| 541789.40 | 4068268.40 | 1.68 | 898.80 | -1.84 | 69771.00 |
| 541788.10 | 4068266.20 | 1.89 | 898.70 | -1.81 | 69773.00 |
| 541786.80 | 4068264.00 | 1.83 | 898.70 | -1.81 | 69775.00 |
| 541786.20 | 4068261.60 | 1.75 | 898.60 | -1.82 | 69777.00 |
| 541785.80 | 4068259.10 | 1.85 | 898.60 | -1.93 | 69779.00 |
| 541785.50 | 4068256.60 | 1.84 | 898.60 | -1.88 | 69781.00 |
| 541785.30 | 4068254.00 | 1.72 | 898.50 | -1.91 | 69783.00 |
| 541785.10 | 4068251.40 | 1.55 | 898.40 | -1.84 | 69785.00 |
| 541785.00 | 4068248.90 | 1.48 | 898.30 | -1.89 | 69787.00 |
| 541784.80 | 4068246.30 | 1.30 | 898.20 | -1.93 | 69789.00 |
| 541784.70 | 4068243.70 | 1.47 | 898.20 | -1.95 | 69791.00 |
| 541784.30 | 4068241.10 | 1.21 | 898.10 | -1.98 | 69793.00 |
| 541784.10 | 4068238.60 | 1.12 | 898.00 | -2.00 | 69795.00 |
| 541783.80 | 4068236.00 | 1.07 | 897.90 | -1.92 | 69797.00 |
| 541783.40 | 4068233.40 | 1.02 | 897.90 | -1.97 | 69799.00 |
| 541782.70 | 4068230.90 | 1.18 | 897.80 | -2.02 | 69801.00 |
| 541781.90 | 4068228.90 | 1.55 | 897.50 | -2.15 | 69803.00 |
| 541780.90 | 4068226.40 | 1.33 | 897.20 | -1.76 | 69805.00 |
| 541780.00 | 4068223.50 | 1.14 | 897.20 | -2.00 | 69807.00 |
| 541779.20 | 4068221.10 | 1.36 | 897.20 | -1.90 | 69809.00 |
| 541778.10 | 4068218.60 | 1.23 | 897.10 | -1.95 | 69811.00 |
| 541777.00 | 4068216.10 | 1.26 | 897.10 | -1.95 | 69813.00 |
| 541776.20 | 4068213.70 | 1.42 | 897.20 | -2.06 | 69815.00 |
| 541775.60 | 4068211.30 | 1.34 | 897.20 | -1.94 | 69817.00 |
| 541774.90 | 4068208.90 | 1.41 | 897.10 | -1.97 | 69819.00 |
| 541774.30 | 4068206.30 | 1.46 | 897.00 | -1.95 | 69821.00 |
| 541773.80 | 4068203.60 | 1.54 | 897.00 | -1.94 | 69823.00 |
| 541773.40 | 4068201.10 | 1.52 | 897.10 | -1.99 | 69825.00 |
| 541773.00 | 4068198.50 | 1.63 | 897.00 | -1.98 | 69827.00 |
| 541772.80 | 4068196.00 | 1.79 | 896.90 | -1.95 | 69829.00 |
| 541772.40 | 4068193.30 | 1.73 | 896.80 | -1.99 | 69831.00 |
| 541772.00 | 4068190.90 | 1.90 | 896.80 | -2.01 | 69833.00 |
| 541771.70 | 4068188.30 | 1.88 | 896.70 | -1.94 | 69835.00 |
| 541771.30 | 4068185.50 | 1.75 | 896.40 | -2.00 | 69837.00 |
| 541771.00 | 4068182.90 | 1.78 | 896.40 | -1.89 | 69839.00 |
| 541770.30 | 4068180.40 | 1.75 | 896.40 | -1.92 | 69841.00 |
| 541769.60 | 4068177.90 | 1.63 | 896.40 | -1.95 | 69843.00 |
| 541769.30 | 4068175.30 | 1.69 | 896.40 | -2.01 | 69845.00 |
| 541768.70 | 4068172.90 | 1.78 | 896.40 | -2.08 | 69847.00 |
| 541768.10 | 4068170.40 | 1.79 | 896.40 | -1.89 | 69849.00 |
| 541767.40 | 4068167.90 | 1.86 | 896.20 | -1.83 | 69851.00 |
| 541766.70 | 4068165.30 | 1.75 | 896.10 | -1.80 | 69853.00 |
| 541766.20 | 4068162.60 | 1.77 | 896.10 | -1.88 | 69855.00 |
| 541765.40 | 4068160.20 | 1.81 | 896.10 | -1.95 | 69857.00 |
| 541764.70 | 4068157.80 | 2.08 | 896.00 | -1.93 | 69859.00 |

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| 541763.50 | 4068155.20 | 1.98 | 895.90 | -1.89 | 69861.00 |
| 541762.70 | 4068152.60 | 1.99 | 895.90 | -1.97 | 69863.00 |
| 541761.50 | 4068150.20 | 2.13 | 895.70 | -1.81 | 69865.00 |
| 541760.30 | 4068147.70 | 1.85 | 895.70 | -1.85 | 69867.00 |
| 541759.10 | 4068145.40 | 1.78 | 895.80 | -1.98 | 69869.00 |
| 541757.80 | 4068143.20 | 2.05 | 895.70 | -1.86 | 69871.00 |
| 541756.30 | 4068140.80 | 1.90 | 895.60 | -1.83 | 69873.00 |
| 541755.20 | 4068138.80 | 1.62 | 895.70 | -1.90 | 69875.00 |
| 541754.80 | 4068138.00 | 1.75 | 895.70 | -1.86 | 69877.00 |
| 541754.10 | 4068135.70 | 1.57 | 895.50 | -1.97 | 69879.00 |
| 541753.40 | 4068133.10 | 1.73 | 895.50 | -2.00 | 69881.00 |
| 541752.60 | 4068130.50 | 1.71 | 895.30 | -1.96 | 69883.00 |
| 541751.80 | 4068128.00 | 1.62 | 895.20 | -1.92 | 69885.00 |
| 541751.00 | 4068125.40 | 1.63 | 895.10 | -1.96 | 69887.00 |
| 541750.30 | 4068122.90 | 1.50 | 895.20 | -1.94 | 69889.00 |
| 541749.70 | 4068120.50 | 1.48 | 895.20 | -1.94 | 69891.00 |
| 541748.90 | 4068118.10 | 1.64 | 895.20 | -1.95 | 69893.00 |
| 541748.50 | 4068115.60 | 1.50 | 895.10 | -1.98 | 69895.00 |
| 541747.70 | 4068113.20 | 1.52 | 895.10 | -2.00 | 69897.00 |
| 541747.10 | 4068110.70 | 1.46 | 895.10 | -1.98 | 69899.00 |
| 541746.40 | 4068108.20 | 1.56 | 895.00 | -2.03 | 69901.00 |
| 541745.60 | 4068105.60 | 1.56 | 894.90 | -1.89 | 69903.00 |
| 541744.90 | 4068103.10 | 1.62 | 894.80 | -1.93 | 69905.00 |
| 541744.20 | 4068100.50 | 1.69 | 894.80 | -1.93 | 69907.00 |
| 541743.40 | 4068098.00 | 1.84 | 894.70 | -1.94 | 69909.00 |
| 541742.50 | 4068095.50 | 1.79 | 894.50 | -1.91 | 69911.00 |
| 541741.60 | 4068093.00 | 1.81 | 894.50 | -1.85 | 69913.00 |
| 541740.80 | 4068090.60 | 1.89 | 894.40 | -1.95 | 69915.00 |
| 541739.80 | 4068088.30 | 1.92 | 894.30 | -1.86 | 69917.00 |
| 541739.10 | 4068085.90 | 1.98 | 894.20 | -1.92 | 69919.00 |
| 541738.50 | 4068083.50 | 2.23 | 894.00 | -1.79 | 69921.00 |
| 541737.70 | 4068080.90 | 2.15 | 893.80 | -2.07 | 69923.00 |
| 541736.90 | 4068078.40 | 2.27 | 893.80 | -1.86 | 69925.00 |
| 541735.90 | 4068075.90 | 2.36 | 893.80 | -1.99 | 69927.00 |
| 541735.00 | 4068073.40 | 2.32 | 893.80 | -2.19 | 69929.00 |
| 541733.90 | 4068070.90 | 2.34 | 893.80 | -2.18 | 69931.00 |
| 541732.70 | 4068068.60 | 2.21 | 893.70 | -2.16 | 69933.00 |
| 541731.70 | 4068066.10 | 2.10 | 893.70 | -2.05 | 69935.00 |
| 541730.50 | 4068063.90 | 1.81 | 893.70 | -2.00 | 69937.00 |
| 541729.70 | 4068061.50 | 1.73 | 893.70 | -1.99 | 69939.00 |
| 541728.80 | 4068059.30 | 1.54 | 893.50 | -2.01 | 69941.00 |
| 541727.90 | 4068057.10 | 1.41 | 893.50 | -1.95 | 69943.00 |
| 541726.70 | 4068055.00 | 1.58 | 893.50 | -1.97 | 69945.00 |
| 541725.90 | 4068052.80 | 1.68 | 893.50 | -2.04 | 69947.00 |
| 541725.10 | 4068050.60 | 1.48 | 893.50 | -1.99 | 69949.00 |
| 541724.20 | 4068048.40 | 1.57 | 893.40 | -2.06 | 69951.00 |
| 541723.20 | 4068046.00 | 1.37 | 893.30 | -2.02 | 69953.00 |
| 541722.20 | 4068043.90 | 1.45 | 893.40 | -1.98 | 69955.00 |
| 541721.10 | 4068041.80 | 1.50 | 893.20 | -1.94 | 69957.00 |
| 541720.20 | 4068039.40 | 1.38 | 893.20 | -2.00 | 69959.00 |
| 541719.20 | 4068036.90 | 1.44 | 893.20 | -1.99 | 69961.00 |
| 541718.60 | 4068034.90 | 1.50 | 893.00 | -1.93 | 69963.00 |
| 541717.80 | 4068032.50 | 1.39 | 893.00 | -1.86 | 69965.00 |
| 541717.10 | 4068029.90 | 1.32 | 892.80 | -1.86 | 69967.00 |
| 541716.20 | 4068027.50 | 1.57 | 892.70 | -1.90 | 69969.00 |
| 541715.60 | 4068025.20 | 1.36 | 892.60 | -1.92 | 69971.00 |
| 541714.80 | 4068023.10 | 1.62 | 892.70 | -1.92 | 69973.00 |

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| 541714.20 | 4068021.10 | 1.36 | 892.50 | -1.95 | 69975.00 |
| 541713.50 | 4068018.90 | 1.14 | 892.50 | -1.97 | 69977.00 |
| 541712.70 | 4068016.60 | 1.30 | 892.50 | -2.01 | 69979.00 |
| 541711.80 | 4068014.50 | 1.41 | 892.40 | -2.13 | 69981.00 |
| 541710.80 | 4068012.50 | 1.27 | 892.40 | -2.01 | 69983.00 |
| 541710.20 | 4068010.30 | 1.14 | 892.30 | -1.93 | 69985.00 |
| 541709.20 | 4068008.10 | 1.42 | 892.30 | -1.94 | 69987.00 |
| 541708.50 | 4068006.00 | 1.36 | 892.20 | -2.02 | 69989.00 |
| 541707.50 | 4068003.80 | 1.50 | 892.10 | -1.91 | 69991.00 |
| 541706.70 | 4068001.80 | 1.49 | 892.10 | -1.98 | 69993.00 |
| 541706.00 | 4068000.00 | 1.26 | 892.00 | -2.07 | 69995.00 |
| 541704.60 | 4067998.40 | 1.55 | 891.90 | -1.97 | 70033.00 |
| 541704.10 | 4067998.60 | 1.37 | 892.00 | -1.97 | 70035.00 |
| 541702.10 | 4067998.80 | 1.49 | 892.00 | -2.00 | 70037.00 |
| 541700.20 | 4067999.70 | 1.18 | 892.10 | -2.11 | 70039.00 |
| 541698.00 | 4068000.10 | 1.46 | 892.10 | -2.04 | 70041.00 |
| 541695.80 | 4068000.40 | 1.39 | 892.10 | -2.15 | 70043.00 |
| 541693.40 | 4068001.00 | 1.60 | 892.00 | -2.09 | 70045.00 |
| 541691.20 | 4068001.50 | 1.66 | 892.00 | -1.95 | 70047.00 |
| 541689.00 | 4068002.10 | 1.68 | 892.10 | -2.04 | 70049.00 |
| 541686.80 | 4068002.60 | 1.18 | 892.00 | -2.14 | 70051.00 |
| 541684.70 | 4068002.70 | 1.79 | 891.90 | -2.17 | 70053.00 |
| 541682.30 | 4068002.80 | 1.99 | 891.80 | -2.04 | 70055.00 |
| 541680.20 | 4068002.70 | 1.62 | 891.90 | -2.40 | 70057.00 |
| 541677.70 | 4068002.20 | 1.92 | 891.70 | -2.04 | 70059.00 |
| 541675.20 | 4068001.60 | 1.70 | 891.70 | -2.22 | 70061.00 |
| 541673.00 | 4068001.60 | 2.02 | 891.90 | -2.11 | 70063.00 |
| 541670.60 | 4068001.70 | 2.10 | 891.70 | -1.86 | 70065.00 |
| 541668.20 | 4068002.20 | 1.64 | 891.90 | -2.04 | 70067.00 |
| 541665.70 | 4068002.50 | 1.95 | 891.80 | -1.96 | 70069.00 |
| 541663.20 | 4068002.50 | 1.86 | 891.90 | -1.99 | 70071.00 |
| 541660.90 | 4068002.10 | 2.19 | 891.90 | -2.11 | 70073.00 |
| 541658.40 | 4068001.80 | 2.15 | 891.90 | -2.16 | 70075.00 |
| 541656.20 | 4068001.50 | 2.13 | 891.90 | -2.12 | 70077.00 |
| 541653.70 | 4068001.60 | 2.23 | 891.70 | -2.04 | 70079.00 |
| 541651.10 | 4068001.40 | 2.17 | 891.60 | -2.10 | 70081.00 |
| 541648.50 | 4068001.50 | 2.36 | 891.50 | -1.91 | 70083.00 |
| 541646.10 | 4068001.10 | 2.05 | 891.70 | -2.08 | 70085.00 |
| 541643.60 | 4068001.20 | 2.25 | 891.60 | -1.99 | 70087.00 |
| 541641.00 | 4068000.90 | 2.44 | 891.60 | -1.97 | 70089.00 |
| 541638.50 | 4068000.70 | 2.16 | 891.80 | -2.04 | 70091.00 |
| 541636.20 | 4068000.20 | 2.02 | 891.60 | -1.89 | 70093.00 |
| 541633.80 | 4068000.10 | 2.25 | 891.60 | -2.08 | 70095.00 |
| 541631.20 | 4067999.90 | 2.01 | 891.60 | -2.13 | 70097.00 |
| 541629.00 | 4067999.90 | 2.50 | 891.60 | -2.10 | 70099.00 |
| 541626.60 | 4067999.80 | 2.22 | 891.70 | -2.10 | 70101.00 |
| 541624.60 | 4067999.80 | 2.42 | 891.70 | -2.18 | 70103.00 |
| 541622.10 | 4067999.80 | 2.35 | 891.70 | -2.28 | 70105.00 |
| 541619.80 | 4067999.50 | 2.33 | 891.50 | -2.16 | 70107.00 |
| 541617.30 | 4067999.80 | 2.26 | 891.50 | -2.07 | 70109.00 |
| 541614.80 | 4067999.90 | 2.41 | 891.50 | -2.12 | 70111.00 |
| 541612.30 | 4067999.90 | 2.26 | 891.50 | -2.11 | 70113.00 |
| 541609.90 | 4067999.60 | 2.29 | 891.50 | -2.00 | 70115.00 |
| 541607.30 | 4067999.50 | 2.25 | 891.50 | -2.14 | 70117.00 |
| 541604.70 | 4067999.70 | 2.13 | 891.40 | -2.13 | 70119.00 |
| 541602.20 | 4067999.40 | 2.36 | 891.30 | -2.33 | 70121.00 |
| 541599.60 | 4067999.60 | 2.13 | 891.40 | -2.35 | 70123.00 |

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| 541597.30 | 4067999.60 | 2.11 | 891.30 | -2.27 | 70125.00 |
| 541594.70 | 4067999.50 | 2.61 | 891.30 | -2.24 | 70127.00 |
| 541592.30 | 4067999.70 | 2.07 | 891.40 | -2.17 | 70129.00 |
| 541590.00 | 4067999.70 | 2.52 | 891.60 | -2.20 | 70131.00 |
| 541587.60 | 4067999.60 | 2.79 | 891.60 | -2.18 | 70133.00 |
| 541585.30 | 4067999.40 | 2.87 | 891.50 | -2.06 | 70135.00 |
| 541582.80 | 4067999.70 | 3.23 | 891.50 | -2.05 | 70137.00 |
| 541580.40 | 4067999.70 | 3.28 | 891.50 | -1.93 | 70139.00 |
| 541578.00 | 4067999.50 | 2.87 | 891.50 | -2.11 | 70141.00 |
| 541575.80 | 4067999.10 | 2.84 | 891.30 | -1.99 | 70143.00 |
| 541573.40 | 4067999.50 | 3.39 | 891.40 | -2.14 | 70145.00 |
| 541571.00 | 4067999.10 | 3.09 | 891.20 | -2.06 | 70147.00 |
| 541568.50 | 4067998.80 | 3.14 | 891.30 | -2.09 | 70149.00 |
| 541566.10 | 4067999.00 | 3.00 | 891.40 | -2.05 | 70151.00 |
| 541563.60 | 4067998.80 | 2.81 | 891.30 | -2.12 | 70153.00 |
| 541561.20 | 4067998.80 | 3.30 | 891.40 | -2.07 | 70155.00 |
| 541558.70 | 4067998.90 | 3.28 | 891.40 | -2.07 | 70157.00 |
| 541556.10 | 4067999.00 | 3.20 | 891.30 | -2.10 | 70159.00 |
| 541553.60 | 4067998.80 | 3.46 | 891.30 | -2.11 | 70161.00 |
| 541551.20 | 4067999.00 | 3.10 | 891.30 | -2.16 | 70163.00 |
| 541548.80 | 4067999.00 | 2.68 | 891.20 | -2.12 | 70165.00 |
| 541546.40 | 4067999.00 | 3.17 | 891.20 | -2.19 | 70167.00 |
| 541544.00 | 4067998.90 | 3.33 | 891.10 | -2.09 | 70169.00 |
| 541541.60 | 4067998.80 | 3.04 | 891.20 | -2.13 | 70171.00 |
| 541539.40 | 4067998.80 | 3.12 | 891.20 | -2.10 | 70173.00 |
| 541537.30 | 4067998.40 | 2.91 | 891.20 | -2.15 | 70175.00 |
| 541534.90 | 4067998.30 | 3.59 | 891.00 | -2.03 | 70177.00 |
| 541532.30 | 4067998.50 | 3.38 | 891.00 | -2.02 | 70179.00 |
| 541529.90 | 4067999.00 | 3.06 | 891.10 | -2.09 | 70181.00 |
| 541527.50 | 4067999.30 | 3.21 | 891.20 | -2.06 | 70183.00 |
| 541525.20 | 4068000.20 | 3.63 | 891.30 | -2.10 | 70185.00 |
| 541522.80 | 4068000.20 | 3.47 | 891.40 | -2.13 | 70187.00 |
| 541520.40 | 4068000.30 | 3.51 | 891.30 | -2.09 | 70189.00 |
| 541517.90 | 4068000.40 | 3.64 | 891.30 | -2.13 | 70191.00 |
| 541515.50 | 4068000.70 | 3.90 | 891.20 | -2.14 | 70193.00 |
| 541512.90 | 4068000.80 | 3.54 | 891.20 | -2.09 | 70195.00 |
| 541510.50 | 4068000.30 | 3.48 | 891.20 | -2.02 | 70197.00 |
| 541508.00 | 4068000.00 | 3.85 | 891.10 | -2.00 | 70199.00 |
| 541505.50 | 4067999.80 | 3.74 | 891.10 | -2.08 | 70201.00 |
| 541502.90 | 4067999.60 | 3.55 | 891.10 | -2.06 | 70203.00 |
| 541500.80 | 4067999.60 | 3.35 | 891.10 | -2.02 | 70205.00 |
| 541498.50 | 4067999.50 | 3.74 | 891.20 | -2.00 | 70207.00 |
| 541496.20 | 4067999.40 | 4.15 | 891.20 | -2.14 | 70209.00 |
| 541493.80 | 4068000.00 | 4.07 | 891.10 | -1.97 | 70211.00 |
| 541491.20 | 4067999.80 | 3.70 | 891.10 | -2.18 | 70213.00 |
| 541488.60 | 4067999.50 | 3.68 | 891.10 | -2.03 | 70215.00 |
| 541486.10 | 4067999.60 | 4.03 | 890.90 | -2.06 | 70217.00 |
| 541483.70 | 4067999.80 | 3.59 | 890.90 | -2.15 | 70219.00 |
| 541481.30 | 4067999.90 | 3.88 | 890.90 | -2.13 | 70221.00 |
| 541479.00 | 4067999.70 | 3.63 | 890.80 | -2.21 | 70223.00 |
| 541476.90 | 4068000.20 | 3.18 | 890.90 | -2.04 | 70225.00 |
| 541474.60 | 4068000.20 | 3.08 | 890.80 | -2.04 | 70227.00 |
| 541472.30 | 4068000.10 | 3.20 | 890.70 | -2.05 | 70229.00 |
| 541470.00 | 4068000.40 | 3.13 | 890.60 | -1.99 | 70231.00 |
| 541467.90 | 4068000.20 | 2.83 | 890.60 | -2.05 | 70233.00 |
| 541466.00 | 4067999.70 | 2.96 | 890.50 | -1.97 | 70235.00 |
| 541463.70 | 4068000.30 | 3.34 | 890.50 | -2.05 | 70237.00 |

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| 541461.60 | 4068000.10 | 2.69 | 890.50 | -2.13 | 70239.00 |
| 541459.60 | 4068000.40 | 2.92 | 890.50 | -2.13 | 70241.00 |
| 541458.00 | 4068001.30 | 2.81 | 890.60 | -2.14 | 70243.00 |
| 541457.10 | 4068001.90 | 2.90 | 890.60 | -2.03 | 70244.00 |
| 541454.30 | 4068002.10 | 3.03 | 890.70 | -2.10 | 70292.00 |
| 541454.40 | 4068003.00 | 3.40 | 890.70 | -2.14 | 70294.00 |
| 541454.00 | 4068005.00 | 3.62 | 890.70 | -2.16 | 70296.00 |
| 541453.60 | 4068007.20 | 3.45 | 890.80 | -2.23 | 70298.00 |
| 541453.50 | 4068009.60 | 3.76 | 890.90 | -2.08 | 70300.00 |
| 541453.20 | 4068012.00 | 3.56 | 890.90 | -2.24 | 70302.00 |
| 541452.80 | 4068014.50 | 3.95 | 890.90 | -2.10 | 70304.00 |
| 541452.60 | 4068016.90 | 3.69 | 891.00 | -2.19 | 70306.00 |
| 541452.20 | 4068019.10 | 3.57 | 891.00 | -2.08 | 70308.00 |
| 541452.50 | 4068021.40 | 3.58 | 891.10 | -2.10 | 70310.00 |
| 541451.90 | 4068023.80 | 3.20 | 891.10 | -2.22 | 70312.00 |
| 541451.60 | 4068026.00 | 3.80 | 891.20 | -2.14 | 70314.00 |
| 541451.00 | 4068028.30 | 3.32 | 891.20 | -2.09 | 70316.00 |
| 541450.80 | 4068030.50 | 3.44 | 891.20 | -2.16 | 70318.00 |
| 541450.60 | 4068032.90 | 2.89 | 891.20 | -2.14 | 70320.00 |
| 541450.60 | 4068035.10 | 3.36 | 891.30 | -2.11 | 70322.00 |
| 541449.90 | 4068037.50 | 3.15 | 891.20 | -2.02 | 70324.00 |
| 541449.30 | 4068039.80 | 2.91 | 891.20 | -2.12 | 70326.00 |
| 541449.40 | 4068042.10 | 2.96 | 891.30 | -2.19 | 70328.00 |
| 541449.50 | 4068044.50 | 2.94 | 891.30 | -2.22 | 70330.00 |
| 541449.70 | 4068046.60 | 3.02 | 891.40 | -2.19 | 70332.00 |
| 541449.90 | 4068048.60 | 2.77 | 891.40 | -2.10 | 70334.00 |
| 541450.00 | 4068050.90 | 3.84 | 891.10 | -2.11 | 70336.00 |
| 541449.60 | 4068051.90 | 3.94 | 891.20 | -2.30 | 70337.00 |
| 541449.10 | 4068054.50 | 3.77 | 891.40 | -2.18 | 70363.50 |
| 541449.60 | 4068054.70 | 4.08 | 891.40 | -2.01 | 70365.00 |
| 541452.00 | 4068054.50 | 3.31 | 891.30 | -2.05 | 70367.00 |
| 541454.20 | 4068054.90 | 2.79 | 891.30 | -2.04 | 70369.00 |
| 541456.50 | 4068054.30 | 2.50 | 891.50 | -2.07 | 70371.00 |
| 541458.90 | 4068054.20 | 2.71 | 891.70 | -2.09 | 70373.00 |
| 541461.30 | 4068053.70 | 2.50 | 891.80 | -2.13 | 70375.00 |
| 541463.70 | 4068053.70 | 2.78 | 891.90 | -2.21 | 70377.00 |
| 541466.10 | 4068054.20 | 2.75 | 891.80 | -2.19 | 70379.00 |
| 541468.50 | 4068054.40 | 2.80 | 892.00 | -2.18 | 70381.00 |
| 541470.80 | 4068054.50 | 2.69 | 892.00 | -2.16 | 70383.00 |
| 541473.20 | 4068054.30 | 3.09 | 892.00 | -2.17 | 70385.00 |
| 541475.70 | 4068054.10 | 2.59 | 892.10 | -2.09 | 70387.00 |
| 541478.10 | 4068054.20 | 3.37 | 892.10 | -2.19 | 70389.00 |
| 541480.50 | 4068054.10 | 3.02 | 892.10 | -2.16 | 70391.00 |
| 541483.00 | 4068053.90 | 2.45 | 892.10 | -2.24 | 70393.00 |
| 541485.50 | 4068053.80 | 2.49 | 892.10 | -2.09 | 70395.00 |
| 541488.10 | 4068053.40 | 2.36 | 892.10 | -2.20 | 70397.00 |
| 541490.30 | 4068053.20 | 2.66 | 892.20 | -2.09 | 70399.00 |
| 541492.60 | 4068053.70 | 2.69 | 892.20 | -2.14 | 70401.00 |
| 541495.00 | 4068053.70 | 2.76 | 892.30 | -2.07 | 70403.00 |
| 541497.50 | 4068053.70 | 2.70 | 892.30 | -2.16 | 70405.00 |
| 541500.10 | 4068053.40 | 2.68 | 892.40 | -2.10 | 70407.00 |
| 541502.60 | 4068053.40 | 2.96 | 892.50 | -2.01 | 70409.00 |
| 541505.00 | 4068053.50 | 2.88 | 892.60 | -2.09 | 70411.00 |
| 541507.40 | 4068053.50 | 2.88 | 892.70 | -2.12 | 70413.00 |
| 541509.80 | 4068053.00 | 2.73 | 892.60 | -2.15 | 70415.00 |
| 541512.40 | 4068052.90 | 3.15 | 892.60 | -2.15 | 70417.00 |
| 541514.90 | 4068053.00 | 3.22 | 892.60 | -2.29 | 70419.00 |

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| 541517.40 | 4068053.00 | 3.07 | 892.60 | -2.07 | 70421.00 |
| 541519.80 | 4068053.40 | 2.87 | 892.70 | -2.08 | 70423.00 |
| 541522.10 | 4068053.50 | 3.65 | 892.60 | -2.05 | 70425.00 |
| 541524.50 | 4068053.20 | 2.96 | 892.60 | -2.11 | 70427.00 |
| 541527.00 | 4068053.10 | 2.93 | 892.70 | -2.26 | 70429.00 |
| 541529.40 | 4068052.50 | 3.01 | 892.60 | -2.20 | 70431.00 |
| 541531.70 | 4068052.90 | 3.07 | 892.60 | -2.16 | 70433.00 |
| 541534.30 | 4068052.90 | 3.53 | 892.40 | -2.01 | 70435.00 |
| 541536.80 | 4068053.30 | 3.13 | 892.50 | -2.06 | 70437.00 |
| 541539.30 | 4068053.20 | 2.78 | 892.50 | -2.13 | 70439.00 |
| 541541.80 | 4068052.70 | 3.42 | 892.60 | -2.06 | 70441.00 |
| 541544.30 | 4068052.80 | 3.25 | 892.70 | -2.09 | 70443.00 |
| 541546.90 | 4068052.70 | 2.93 | 892.70 | -2.05 | 70445.00 |
| 541549.50 | 4068052.80 | 3.12 | 892.70 | -2.11 | 70447.00 |
| 541552.00 | 4068052.60 | 3.10 | 892.60 | -2.04 | 70449.00 |
| 541554.60 | 4068052.40 | 3.47 | 892.50 | -2.04 | 70451.00 |
| 541557.20 | 4068052.30 | 2.91 | 892.50 | -2.05 | 70453.00 |
| 541559.80 | 4068052.30 | 2.86 | 892.60 | -2.02 | 70455.00 |
| 541562.20 | 4068052.00 | 3.02 | 892.60 | -1.99 | 70457.00 |
| 541564.60 | 4068052.00 | 3.08 | 892.70 | -2.02 | 70459.00 |
| 541567.10 | 4068051.70 | 2.64 | 892.80 | -2.06 | 70461.00 |
| 541569.50 | 4068052.30 | 3.02 | 892.80 | -2.07 | 70463.00 |
| 541572.00 | 4068052.30 | 3.01 | 892.80 | -2.05 | 70465.00 |
| 541574.40 | 4068051.90 | 2.62 | 892.80 | -2.15 | 70467.00 |
| 541577.10 | 4068052.00 | 2.88 | 892.80 | -2.08 | 70469.00 |
| 541579.60 | 4068052.20 | 2.80 | 892.90 | -2.08 | 70471.00 |
| 541582.20 | 4068052.30 | 2.66 | 892.80 | -2.02 | 70473.00 |
| 541584.70 | 4068052.20 | 2.75 | 892.80 | -2.08 | 70475.00 |
| 541587.20 | 4068052.40 | 2.66 | 893.00 | -2.05 | 70477.00 |
| 541589.70 | 4068051.90 | 2.61 | 892.80 | -1.96 | 70479.00 |
| 541592.10 | 4068051.90 | 2.65 | 892.90 | -2.04 | 70481.00 |
| 541594.50 | 4068052.10 | 2.66 | 892.80 | -2.06 | 70483.00 |
| 541596.80 | 4068052.70 | 2.84 | 892.70 | -2.10 | 70485.00 |
| 541599.30 | 4068052.80 | 2.71 | 892.50 | -2.06 | 70487.00 |
| 541601.80 | 4068051.90 | 2.55 | 892.60 | -2.10 | 70489.00 |
| 541604.00 | 4068051.50 | 2.50 | 892.80 | -2.13 | 70491.00 |
| 541606.40 | 4068051.40 | 2.51 | 892.90 | -2.22 | 70493.00 |
| 541608.80 | 4068051.70 | 2.58 | 893.00 | -2.20 | 70495.00 |
| 541611.30 | 4068051.70 | 2.43 | 893.00 | -2.12 | 70497.00 |
| 541613.80 | 4068052.10 | 2.40 | 893.00 | -2.17 | 70499.00 |
| 541616.20 | 4068051.80 | 2.39 | 893.00 | -2.10 | 70501.00 |
| 541618.60 | 4068051.60 | 2.55 | 892.80 | -2.13 | 70503.00 |
| 541621.10 | 4068051.50 | 2.59 | 892.70 | -1.85 | 70505.00 |
| 541623.60 | 4068051.40 | 2.08 | 892.80 | -1.99 | 70507.00 |
| 541626.00 | 4068051.70 | 2.25 | 892.80 | -1.96 | 70509.00 |
| 541628.30 | 4068052.30 | 2.23 | 892.80 | -1.92 | 70511.00 |
| 541630.90 | 4068052.40 | 2.41 | 892.80 | -1.83 | 70513.00 |
| 541633.30 | 4068052.90 | 2.19 | 892.90 | -1.79 | 70515.00 |
| 541635.50 | 4068053.40 | 2.05 | 892.90 | -1.98 | 70517.00 |
| 541637.90 | 4068053.30 | 2.02 | 892.90 | -1.80 | 70519.00 |
| 541640.40 | 4068052.70 | 1.90 | 893.00 | -1.95 | 70521.00 |
| 541642.70 | 4068052.40 | 1.90 | 893.00 | -2.04 | 70523.00 |
| 541645.20 | 4068051.80 | 1.91 | 893.00 | -2.03 | 70525.00 |
| 541647.50 | 4068051.80 | 1.91 | 893.00 | -2.09 | 70527.00 |
| 541649.80 | 4068051.90 | 2.37 | 892.90 | -2.30 | 70529.00 |
| 541652.20 | 4068052.30 | 2.21 | 892.90 | -2.11 | 70531.00 |
| 541654.20 | 4068051.70 | 2.17 | 893.00 | -1.90 | 70533.00 |

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| 541656.30 | 4068051.70 | 2.16 | 893.10 | -1.93 | 70535.00 |
| 541658.70 | 4068051.30 | 2.15 | 893.20 | -1.89 | 70537.00 |
| 541661.20 | 4068051.00 | 2.24 | 893.10 | -1.98 | 70539.00 |
| 541663.70 | 4068050.70 | 2.10 | 893.10 | -1.88 | 70541.00 |
| 541666.10 | 4068051.00 | 2.25 | 893.10 | -2.00 | 70543.00 |
| 541668.40 | 4068051.20 | 2.12 | 893.20 | -1.98 | 70545.00 |
| 541670.80 | 4068050.90 | 2.51 | 893.20 | -2.02 | 70547.00 |
| 541673.30 | 4068050.90 | 2.95 | 893.30 | -1.98 | 70549.00 |
| 541675.60 | 4068051.50 | 2.96 | 893.40 | -2.02 | 70551.00 |
| 541677.90 | 4068051.50 | 3.47 | 893.40 | -2.08 | 70553.00 |
| 541680.40 | 4068051.30 | 3.48 | 893.40 | -2.01 | 70555.00 |
| 541682.90 | 4068051.10 | 3.77 | 893.40 | -1.92 | 70557.00 |
| 541685.30 | 4068050.70 | 3.66 | 893.50 | -1.92 | 70559.00 |
| 541687.70 | 4068050.60 | 3.73 | 893.50 | -2.08 | 70561.00 |
| 541690.00 | 4068050.70 | 3.19 | 893.50 | -2.10 | 70563.00 |
| 541692.40 | 4068050.90 | 3.07 | 893.40 | -2.16 | 70565.00 |
| 541694.80 | 4068050.80 | 2.82 | 893.40 | -2.18 | 70567.00 |
| 541697.10 | 4068050.60 | 2.91 | 893.10 | -2.13 | 70569.00 |
| 541699.50 | 4068050.50 | 2.57 | 893.00 | -1.96 | 70571.00 |
| 541701.80 | 4068050.50 | 2.43 | 893.10 | -2.04 | 70573.00 |
| 541704.20 | 4068050.60 | 2.16 | 893.10 | -1.89 | 70575.00 |
| 541706.80 | 4068050.80 | 1.81 | 893.10 | -2.13 | 70577.00 |
| 541709.20 | 4068050.70 | 1.97 | 893.10 | -2.00 | 70579.00 |
| 541711.40 | 4068050.90 | 1.80 | 893.20 | -1.91 | 70581.00 |
| 541713.70 | 4068050.60 | 1.75 | 893.20 | -1.97 | 70583.00 |
| 541716.20 | 4068050.30 | 1.71 | 893.10 | -2.00 | 70585.00 |
| 541718.60 | 4068050.10 | 1.59 | 893.20 | -2.12 | 70587.00 |
| 541720.80 | 4068050.50 | 1.76 | 893.20 | -2.10 | 70589.00 |
| 541722.70 | 4068050.60 | 1.48 | 893.20 | -1.84 | 70591.00 |
| 541723.50 | 4068050.40 | 1.53 | 893.20 | -1.92 | 70716.00 |
| 541723.80 | 4068050.50 | 1.66 | 893.20 | -2.07 | 70717.00 |
| 541725.30 | 4068050.20 | 1.27 | 893.40 | -2.06 | 70719.00 |
| 541727.50 | 4068050.40 | 1.46 | 893.40 | -2.14 | 70721.00 |
| 541729.70 | 4068050.20 | 1.50 | 893.50 | -2.21 | 70723.00 |
| 541732.10 | 4068049.80 | 1.52 | 893.40 | -2.27 | 70725.00 |
| 541734.20 | 4068049.40 | 1.76 | 893.20 | -2.32 | 70727.00 |
| 541736.20 | 4068049.40 | 2.19 | 893.00 | -2.24 | 70729.00 |
| 541737.90 | 4068049.10 | 2.04 | 893.00 | -2.13 | 70731.00 |
| 541740.20 | 4068048.70 | 2.19 | 893.00 | -2.19 | 70733.00 |
| 541742.10 | 4068048.60 | 1.73 | 893.20 | -2.24 | 70735.00 |
| 541744.10 | 4068048.90 | 2.08 | 893.30 | -2.40 | 70737.00 |
| 541746.10 | 4068049.10 | 2.74 | 893.20 | -2.32 | 70739.00 |
| 541747.70 | 4068048.40 | 2.85 | 892.80 | -2.17 | 70741.00 |
| 541749.70 | 4068049.40 | 2.88 | 892.90 | -2.29 | 70743.00 |
| 541751.60 | 4068049.20 | 3.28 | 893.10 | -2.71 | 70745.00 |
| 541753.70 | 4068049.80 | 3.89 | 893.20 | -2.87 | 70747.00 |
| 541755.80 | 4068050.00 | 4.54 | 893.10 | -2.81 | 70749.00 |
| 541757.80 | 4068049.20 | 4.45 | 893.30 | -1.69 | 70751.00 |
| 541759.40 | 4068050.00 | 4.20 | 893.60 | -1.26 | 70753.00 |
| 541760.80 | 4068050.80 | 4.44 | 894.00 | -1.58 | 70755.00 |
| 541762.20 | 4068050.70 | 4.11 | 894.50 | -2.43 | 70757.00 |
| 541763.60 | 4068051.30 | 4.14 | 894.80 | -2.81 | 70759.00 |
| 541765.00 | 4068051.50 | 4.87 | 895.20 | -2.66 | 70761.00 |
| 541766.20 | 4068052.20 | 4.76 | 895.40 | -2.83 | 70763.00 |
| 541768.00 | 4068051.60 | 4.96 | 895.50 | -3.20 | 70765.00 |
| 541770.00 | 4068051.60 | 5.53 | 895.60 | -3.18 | 70767.00 |
| 541772.20 | 4068051.60 | 5.23 | 895.70 | -3.18 | 70769.00 |

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| 541774.40 | 4068052.20 | 5.38 | 895.80 | -2.61 | 70771.00 |
| 541776.60 | 4068052.40 | 5.80 | 895.90 | -2.02 | 70773.00 |
| 541779.00 | 4068052.70 | 5.55 | 895.90 | -1.86 | 70775.00 |
| 541781.10 | 4068053.50 | 5.76 | 895.90 | -1.79 | 70777.00 |
| 541783.30 | 4068053.00 | 6.02 | 896.00 | -1.88 | 70779.00 |
| 541785.30 | 4068051.90 | 6.41 | 895.90 | -1.95 | 70781.00 |
| 541787.60 | 4068051.50 | 5.10 | 896.00 | -2.39 | 70783.00 |
| 541789.70 | 4068051.60 | 4.29 | 896.10 | -2.27 | 70785.00 |
| 541792.10 | 4068051.70 | 4.27 | 896.00 | -1.43 | 70787.00 |
| 541794.50 | 4068051.70 | 3.86 | 896.00 | -1.29 | 70789.00 |
| 541796.90 | 4068052.10 | 3.36 | 896.00 | -1.64 | 70791.00 |
| 541799.30 | 4068052.40 | 3.30 | 896.00 | -1.68 | 70793.00 |
| 541801.60 | 4068052.70 | 2.97 | 896.00 | -1.75 | 70795.00 |
| 541804.00 | 4068053.10 | 3.32 | 896.00 | -1.79 | 70797.00 |
| 541806.50 | 4068052.90 | 4.18 | 896.00 | -1.39 | 70799.00 |
| 541808.90 | 4068052.90 | 3.76 | 896.00 | -2.43 | 70801.00 |
| 541811.30 | 4068053.00 | 3.84 | 896.00 | -3.62 | 70803.00 |
| 541813.70 | 4068052.80 | 4.57 | 895.90 | -3.11 | 70805.00 |
| 541816.20 | 4068052.70 | 5.08 | 895.80 | -1.82 | 70807.00 |
| 541818.50 | 4068052.40 | 5.26 | 895.80 | -1.68 | 70809.00 |
| 541820.70 | 4068051.40 | 4.72 | 895.60 | -1.67 | 70811.00 |
| 541823.10 | 4068050.50 | 4.83 | 895.50 | -1.81 | 70813.00 |
| 541825.50 | 4068050.50 | 3.80 | 895.50 | -2.48 | 70815.00 |
| 541828.00 | 4068051.00 | 4.78 | 895.50 | -2.67 | 70817.00 |
| 541830.40 | 4068051.30 | 5.26 | 895.50 | -2.94 | 70819.00 |
| 541832.80 | 4068051.50 | 4.54 | 895.50 | -3.18 | 70821.00 |
| 541835.30 | 4068051.70 | 4.50 | 895.50 | -3.14 | 70823.00 |
| 541837.80 | 4068052.00 | 6.28 | 895.50 | -3.01 | 70825.00 |
| 541840.10 | 4068052.60 | 5.56 | 895.40 | -2.76 | 70827.00 |
| 541842.60 | 4068052.90 | 6.35 | 895.40 | -2.68 | 70829.00 |
| 541845.10 | 4068052.70 | 6.33 | 895.30 | -2.51 | 70831.00 |
| 541847.50 | 4068052.40 | 5.54 | 895.40 | -2.96 | 70833.00 |
| 541850.00 | 4068052.50 | 4.91 | 895.40 | -2.93 | 70835.00 |
| 541852.30 | 4068052.70 | 5.62 | 895.30 | -2.62 | 70837.00 |
| 541854.90 | 4068052.70 | 6.23 | 895.20 | -2.26 | 70839.00 |
| 541857.20 | 4068052.20 | 4.80 | 895.30 | -2.86 | 70841.00 |
| 541859.50 | 4068052.40 | 4.10 | 895.50 | -3.27 | 70843.00 |
| 541861.80 | 4068052.90 | 4.08 | 895.60 | -3.23 | 70845.00 |
| 541863.80 | 4068053.30 | 4.74 | 895.80 | -2.79 | 70847.00 |
| 541866.10 | 4068053.20 | 5.04 | 895.80 | -2.87 | 70849.00 |
| 541868.20 | 4068052.40 | 4.90 | 895.90 | -3.10 | 70851.00 |
| 541870.50 | 4068052.20 | 4.50 | 896.00 | -2.71 | 70853.00 |
| 541872.90 | 4068051.90 | 4.84 | 895.90 | -2.33 | 70855.00 |
| 541875.30 | 4068051.30 | 4.40 | 895.90 | -2.58 | 70857.00 |
| 541877.70 | 4068051.40 | 4.04 | 895.80 | -2.80 | 70859.00 |
| 541880.10 | 4068051.50 | 5.48 | 895.90 | -2.38 | 70861.00 |
| 541882.60 | 4068051.40 | 5.69 | 895.80 | -2.02 | 70863.00 |
| 541884.90 | 4068050.70 | 4.59 | 895.80 | -2.35 | 70865.00 |
| 541887.40 | 4068050.60 | 5.62 | 895.90 | -2.58 | 70867.00 |
| 541889.80 | 4068050.40 | 5.12 | 896.10 | -3.10 | 70869.00 |
| 541892.10 | 4068050.00 | 5.04 | 896.20 | -3.24 | 70871.00 |
| 541894.40 | 4068049.40 | 4.64 | 896.10 | -3.48 | 70873.00 |
| 541896.90 | 4068049.30 | 4.29 | 896.20 | -3.09 | 70875.00 |
| 541899.20 | 4068049.40 | 4.95 | 896.20 | -2.44 | 70877.00 |
| 541901.60 | 4068049.50 | 4.51 | 896.20 | -2.70 | 70879.00 |
| 541904.00 | 4068049.90 | 4.30 | 896.00 | -2.64 | 70881.00 |
| 541905.00 | 4068050.00 | 4.42 | 896.10 | -2.57 | 70882.00 |

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| 541906.20 | 4068049.30 | 4.50 | 896.20 | -2.02 | 70921.00 |
| 541906.30 | 4068049.40 | 4.32 | 896.20 | -2.01 | 70922.00 |
| 541906.30 | 4068050.90 | 4.15 | 896.30 | -2.25 | 70924.00 |
| 541906.80 | 4068053.00 | 5.08 | 896.40 | -2.19 | 70926.00 |
| 541907.30 | 4068055.30 | 4.42 | 896.50 | -2.65 | 70928.00 |
| 541907.60 | 4068057.80 | 4.21 | 896.70 | -2.38 | 70930.00 |
| 541908.30 | 4068060.10 | 6.74 | 896.80 | -1.65 | 70932.00 |
| 541909.00 | 4068062.50 | 5.25 | 896.90 | -1.79 | 70934.00 |
| 541909.40 | 4068065.00 | 5.33 | 897.00 | -1.84 | 70936.00 |
| 541910.00 | 4068067.30 | 5.50 | 897.10 | -1.45 | 70938.00 |
| 541911.40 | 4068069.30 | 5.75 | 897.30 | -1.63 | 70940.00 |
| 541912.60 | 4068071.40 | 6.45 | 897.40 | -1.74 | 70942.00 |
| 541912.80 | 4068073.90 | 6.87 | 897.40 | -1.73 | 70944.00 |
| 541912.90 | 4068076.40 | 6.92 | 897.50 | -2.09 | 70946.00 |
| 541913.90 | 4068078.50 | 6.62 | 897.70 | -2.43 | 70948.00 |
| 541915.00 | 4068080.70 | 6.67 | 897.90 | -1.47 | 70950.00 |
| 541915.60 | 4068082.90 | 6.12 | 898.10 | -1.52 | 70952.00 |
| 541916.50 | 4068084.80 | 6.91 | 898.20 | -1.71 | 70954.00 |
| 541917.00 | 4068087.00 | 5.74 | 898.50 | -1.56 | 70956.00 |
| 541917.20 | 4068089.40 | 4.96 | 898.60 | -1.83 | 70958.00 |
| 541917.80 | 4068091.50 | 6.18 | 898.70 | -2.11 | 70960.00 |
| 541918.00 | 4068093.70 | 6.80 | 898.80 | -2.23 | 70962.00 |
| 541917.70 | 4068096.10 | 6.94 | 898.90 | -3.17 | 70964.00 |
| 541918.30 | 4068098.00 | 6.36 | 899.20 | -2.80 | 70966.00 |
| 541919.30 | 4068100.00 | 6.46 | 899.20 | -2.93 | 70968.00 |
| 541919.80 | 4068102.00 | 6.92 | 899.40 | -2.91 | 70970.00 |
| 541920.60 | 4068104.00 | 9.39 | 899.50 | -2.48 | 70972.00 |
| 541920.80 | 4068106.10 | 11.29 | 899.60 | -1.23 | 70974.00 |
| 541920.70 | 4068108.20 | 10.34 | 899.90 | -1.50 | 70976.00 |
| 541920.80 | 4068110.30 | 8.30 | 900.00 | -2.63 | 70978.00 |
| 541921.70 | 4068112.40 | 9.28 | 900.20 | -3.15 | 70980.00 |
| 541921.70 | 4068114.70 | 8.59 | 900.30 | -3.23 | 70982.00 |
| 541922.40 | 4068117.00 | 7.82 | 900.50 | -3.28 | 70984.00 |
| 541922.60 | 4068119.10 | 8.52 | 900.60 | -2.96 | 70986.00 |
| 541923.90 | 4068121.00 | 8.41 | 900.80 | -2.39 | 70988.00 |
| 541923.90 | 4068123.00 | 7.65 | 900.90 | -2.56 | 70990.00 |
| 541923.90 | 4068125.00 | 7.10 | 901.00 | -2.62 | 70992.00 |
| 541923.40 | 4068127.00 | 7.69 | 901.10 | -2.72 | 70994.00 |
| 541923.20 | 4068128.90 | 6.88 | 901.30 | -3.00 | 70996.00 |
| 541923.20 | 4068130.80 | 5.57 | 901.40 | -2.73 | 70998.00 |
| 541923.00 | 4068132.60 | 5.47 | 901.50 | -1.63 | 71000.00 |
| 541923.00 | 4068134.00 | 5.37 | 901.70 | -1.20 | 71002.00 |
| 541922.80 | 4068134.40 | 5.76 | 901.70 | -1.08 | 71012.00 |
| 541922.80 | 4068134.50 | 5.75 | 901.70 | -0.80 | 71013.00 |
| 541922.80 | 4068134.20 | 5.75 | 901.70 | -0.59 | 71014.00 |
| 541922.60 | 4068133.40 | 5.33 | 901.60 | -0.50 | 71015.00 |
| 541922.60 | 4068132.30 | 4.93 | 901.50 | -1.01 | 71016.00 |
| 541922.90 | 4068131.40 | 5.33 | 901.50 | -1.31 | 71017.00 |
| 541922.60 | 4068130.30 | 5.47 | 901.40 | -1.50 | 71018.00 |
| 541922.20 | 4068129.30 | 5.29 | 901.30 | -1.20 | 71019.00 |
| 541921.80 | 4068128.40 | 5.91 | 901.30 | -1.28 | 71020.00 |
| 541921.30 | 4068126.30 | 5.60 | 901.10 | -2.17 | 71022.00 |
| 541920.50 | 4068124.20 | 5.81 | 901.00 | -1.28 | 71024.00 |
| 541919.50 | 4068122.10 | 5.43 | 900.80 | -1.80 | 71026.00 |
| 541918.70 | 4068120.10 | 5.73 | 900.70 | -1.73 | 71028.00 |
| 541918.10 | 4068117.90 | 5.62 | 900.50 | -1.71 | 71030.00 |
| 541917.40 | 4068115.90 | 6.51 | 900.40 | -1.76 | 71032.00 |

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| 541917.10 | 4068114.10 | 7.16 | 900.30 | -2.65 | 71034.00 |
| 541916.10 | 4068112.40 | 9.28 | 900.10 | -2.23 | 71036.00 |
| 541915.30 | 4068110.50 | 9.68 | 899.90 | -1.30 | 71038.00 |
| 541915.00 | 4068108.90 | 8.56 | 899.80 | -2.27 | 71040.00 |
| 541914.60 | 4068107.10 | 9.58 | 899.60 | -2.79 | 71042.00 |
| 541914.60 | 4068105.20 | 8.58 | 899.50 | -2.31 | 71044.00 |
| 541913.90 | 4068103.80 | 7.49 | 899.40 | -2.17 | 71046.00 |
| 541913.30 | 4068102.60 | 7.99 | 899.30 | -2.21 | 71048.00 |
| 541913.00 | 4068101.80 | 8.38 | 899.30 | -2.62 | 71049.00 |
| 541911.80 | 4068098.50 | 8.85 | 899.00 | -2.62 | 71114.00 |
| 541911.50 | 4068098.50 | 9.49 | 899.00 | -2.60 | 71116.00 |
| 541910.00 | 4068099.10 | 9.08 | 899.00 | -2.40 | 71118.00 |
| 541908.10 | 4068100.00 | 7.71 | 899.00 | -1.60 | 71120.00 |
| 541905.70 | 4068099.70 | 7.38 | 898.90 | -1.61 | 71122.00 |
| 541903.20 | 4068099.20 | 7.85 | 898.90 | -1.78 | 71124.00 |
| 541900.80 | 4068099.30 | 7.62 | 898.80 | -1.88 | 71126.00 |
| 541898.30 | 4068099.10 | 7.42 | 898.70 | -2.02 | 71128.00 |
| 541895.90 | 4068099.00 | 6.96 | 898.70 | -1.54 | 71130.00 |
| 541893.40 | 4068099.40 | 8.11 | 898.70 | -1.07 | 71132.00 |
| 541890.90 | 4068099.50 | 8.03 | 898.50 | -0.84 | 71134.00 |
| 541888.60 | 4068099.90 | 7.46 | 898.60 | -1.19 | 71136.00 |
| 541886.30 | 4068100.40 | 6.74 | 898.70 | -1.86 | 71138.00 |
| 541883.90 | 4068100.30 | 6.84 | 898.60 | -1.53 | 71140.00 |
| 541881.30 | 4068100.30 | 7.24 | 898.50 | -1.10 | 71142.00 |
| 541878.80 | 4068100.00 | 6.43 | 898.40 | -2.17 | 71144.00 |
| 541876.30 | 4068100.20 | 7.38 | 898.40 | -2.35 | 71146.00 |
| 541873.90 | 4068100.30 | 8.17 | 898.30 | -2.19 | 71148.00 |
| 541871.30 | 4068100.40 | 7.51 | 898.20 | -2.62 | 71150.00 |
| 541868.80 | 4068100.40 | 8.31 | 898.10 | -2.66 | 71152.00 |
| 541866.40 | 4068100.40 | 7.14 | 898.10 | -2.65 | 71154.00 |
| 541864.00 | 4068100.60 | 6.74 | 898.00 | -2.31 | 71156.00 |
| 541861.60 | 4068101.40 | 6.92 | 898.00 | -2.53 | 71158.00 |
| 541859.10 | 4068101.40 | 6.05 | 897.90 | -2.10 | 71160.00 |
| 541856.70 | 4068100.90 | 5.17 | 898.00 | -1.43 | 71162.00 |
| 541854.30 | 4068100.70 | 6.26 | 898.10 | -1.25 | 71164.00 |
| 541852.00 | 4068100.70 | 5.56 | 898.10 | -1.64 | 71166.00 |
| 541849.60 | 4068101.00 | 5.87 | 898.10 | -1.90 | 71168.00 |
| 541847.20 | 4068101.20 | 6.44 | 898.00 | -1.96 | 71170.00 |
| 541844.90 | 4068101.70 | 8.08 | 898.00 | -1.39 | 71172.00 |
| 541842.50 | 4068101.70 | 8.00 | 898.20 | -1.63 | 71174.00 |
| 541840.20 | 4068101.30 | 8.26 | 898.20 | -1.88 | 71176.00 |
| 541838.10 | 4068101.20 | 7.33 | 898.40 | -1.73 | 71178.00 |
| 541835.80 | 4068101.00 | 7.41 | 898.50 | -1.62 | 71180.00 |
| 541833.40 | 4068101.30 | 5.90 | 898.70 | -1.66 | 71182.00 |
| 541830.90 | 4068100.70 | 4.70 | 898.70 | -1.00 | 71184.00 |
| 541828.50 | 4068099.90 | 3.95 | 898.70 | -0.38 | 71186.00 |
| 541826.10 | 4068099.80 | 3.42 | 898.70 | -0.72 | 71188.00 |
| 541823.50 | 4068099.80 | 2.97 | 898.70 | -0.94 | 71190.00 |
| 541821.00 | 4068099.90 | 2.52 | 898.70 | -0.92 | 71192.00 |
| 541818.40 | 4068099.70 | 2.70 | 898.70 | -1.06 | 71194.00 |
| 541815.90 | 4068099.80 | 3.13 | 898.60 | -1.44 | 71196.00 |
| 541813.30 | 4068099.60 | 2.83 | 898.60 | -1.43 | 71198.00 |
| 541810.90 | 4068099.50 | 3.40 | 898.50 | -0.88 | 71200.00 |
| 541808.20 | 4068099.60 | 2.79 | 898.30 | -1.20 | 71202.00 |
| 541805.70 | 4068099.60 | 3.52 | 898.20 | -1.00 | 71204.00 |
| 541803.20 | 4068099.60 | 4.52 | 898.00 | -1.09 | 71206.00 |
| 541800.80 | 4068099.60 | 3.79 | 897.90 | -0.91 | 71208.00 |

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| 541798.20 | 4068099.40 | 4.02 | 897.80 | -0.87 | 71210.00 |
| 541795.70 | 4068099.40 | 4.04 | 897.60 | -1.31 | 71212.00 |
| 541793.20 | 4068099.30 | 3.76 | 897.50 | -1.69 | 71214.00 |
| 541790.70 | 4068099.50 | 4.57 | 897.40 | -1.80 | 71216.00 |
| 541788.30 | 4068099.60 | 3.79 | 897.30 | -2.36 | 71218.00 |
| 541786.00 | 4068099.80 | 3.65 | 897.20 | -2.69 | 71220.00 |
| 541783.60 | 4068099.40 | 1.45 | 897.00 | -2.88 | 71222.00 |
| 541781.80 | 4068098.60 | 2.42 | 896.90 | -3.28 | 71224.00 |
| 541780.30 | 4068098.50 | 3.10 | 896.80 | -3.38 | 71226.00 |
| 541779.10 | 4068098.90 | 3.05 | 896.50 | -3.01 | 71228.00 |
| 541778.10 | 4068099.80 | 2.83 | 896.10 | -2.70 | 71230.00 |
| 541777.00 | 4068100.60 | 2.87 | 895.70 | -2.19 | 71232.00 |
| 541775.50 | 4068100.70 | 2.40 | 895.20 | -1.56 | 71234.00 |
| 541774.20 | 4068100.30 | 2.52 | 894.90 | -1.60 | 71236.00 |
| 541772.90 | 4068100.00 | 2.61 | 894.40 | -1.09 | 71238.00 |
| 541771.10 | 4068100.90 | 2.44 | 894.10 | -2.91 | 71240.00 |
| 541769.60 | 4068102.00 | 2.11 | 894.30 | -2.54 | 71242.00 |
| 541767.70 | 4068102.40 | 2.08 | 894.50 | -2.01 | 71244.00 |
| 541765.30 | 4068102.60 | 1.62 | 894.60 | -2.11 | 71246.00 |
| 541763.20 | 4068102.70 | 1.75 | 894.40 | -2.13 | 71248.00 |
| 541761.00 | 4068102.50 | 1.76 | 894.20 | -2.04 | 71250.00 |
| 541758.70 | 4068102.50 | 1.89 | 894.20 | -1.81 | 71252.00 |
| 541756.70 | 4068102.40 | 1.44 | 894.50 | -1.95 | 71254.00 |
| 541754.80 | 4068102.80 | 1.43 | 894.50 | -2.04 | 71256.00 |
| 541752.40 | 4068103.00 | 1.66 | 894.40 | -2.10 | 71258.00 |
| 541749.80 | 4068102.80 | 1.68 | 894.30 | -1.77 | 71260.00 |
| 541747.70 | 4068102.30 | 1.30 | 894.50 | -1.77 | 71262.00 |
| 541745.80 | 4068102.20 | 1.97 | 894.60 | -1.71 | 71294.00 |
| 541745.20 | 4068102.10 | 1.81 | 894.60 | -1.83 | 71296.00 |
| 541743.00 | 4068101.90 | 1.83 | 894.70 | -1.90 | 71298.00 |
| 541740.60 | 4068101.80 | 1.66 | 894.90 | -1.98 | 71300.00 |
| 541738.10 | 4068101.80 | 1.92 | 894.80 | -1.97 | 71302.00 |
| 541735.50 | 4068102.00 | 2.00 | 894.80 | -2.02 | 71304.00 |
| 541733.00 | 4068101.60 | 2.11 | 894.70 | -2.06 | 71306.00 |
| 541730.40 | 4068101.40 | 1.96 | 894.70 | -2.02 | 71308.00 |
| 541727.90 | 4068101.00 | 2.20 | 894.50 | -1.97 | 71310.00 |
| 541725.50 | 4068101.00 | 2.35 | 894.30 | -2.01 | 71312.00 |
| 541723.00 | 4068101.60 | 2.41 | 894.30 | -2.04 | 71314.00 |
| 541720.50 | 4068100.90 | 2.44 | 894.30 | -1.97 | 71316.00 |
| 541718.00 | 4068100.60 | 2.49 | 894.30 | -2.04 | 71318.00 |
| 541715.40 | 4068100.90 | 2.98 | 894.40 | -2.07 | 71320.00 |
| 541712.90 | 4068100.70 | 3.07 | 894.60 | -1.92 | 71322.00 |
| 541710.70 | 4068100.00 | 2.65 | 894.80 | -2.08 | 71324.00 |
| 541708.10 | 4068100.00 | 3.37 | 894.90 | -1.98 | 71326.00 |
| 541705.40 | 4068099.70 | 3.42 | 895.00 | -2.01 | 71328.00 |
| 541702.70 | 4068099.60 | 3.56 | 895.00 | -2.04 | 71330.00 |
| 541700.10 | 4068099.60 | 3.66 | 895.00 | -1.95 | 71332.00 |
| 541697.60 | 4068099.60 | 3.73 | 895.00 | -2.07 | 71334.00 |
| 541695.00 | 4068099.20 | 3.98 | 895.00 | -2.06 | 71336.00 |
| 541692.50 | 4068098.70 | 4.05 | 895.00 | -2.07 | 71338.00 |
| 541690.10 | 4068098.00 | 3.42 | 894.90 | -2.00 | 71340.00 |
| 541687.50 | 4068098.10 | 3.60 | 894.80 | -2.12 | 71342.00 |
| 541685.00 | 4068098.00 | 3.22 | 894.80 | -2.08 | 71344.00 |
| 541682.40 | 4068097.80 | 2.90 | 894.70 | -1.97 | 71346.00 |
| 541679.90 | 4068097.70 | 2.84 | 894.50 | -2.03 | 71348.00 |
| 541677.30 | 4068097.90 | 2.84 | 894.40 | -1.94 | 71350.00 |

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| 541674.90 | 4068097.20 | 2.20 | 894.40 | -1.98 | 71352.00 |
| 541672.50 | 4068097.20 | 2.21 | 894.40 | -2.02 | 71354.00 |
| 541669.90 | 4068097.30 | 2.40 | 894.30 | -1.88 | 71356.00 |
| 541667.30 | 4068097.20 | 2.21 | 894.20 | -1.85 | 71358.00 |
| 541664.90 | 4068097.20 | 2.15 | 894.30 | -1.86 | 71360.00 |
| 541662.40 | 4068097.90 | 2.24 | 894.30 | -1.99 | 71362.00 |
| 541660.00 | 4068098.70 | 2.16 | 894.20 | -1.79 | 71364.00 |
| 541657.50 | 4068098.70 | 2.11 | 894.00 | -1.85 | 71366.00 |
| 541654.80 | 4068099.00 | 2.15 | 894.10 | -1.95 | 71368.00 |
| 541652.20 | 4068099.40 | 1.96 | 894.20 | -1.82 | 71370.00 |
| 541649.90 | 4068099.10 | 1.87 | 894.20 | -2.00 | 71372.00 |
| 541647.50 | 4068098.90 | 1.94 | 894.20 | -2.02 | 71374.00 |
| 541645.00 | 4068098.70 | 2.26 | 894.10 | -2.12 | 71376.00 |
| 541642.70 | 4068098.90 | 2.13 | 894.20 | -1.98 | 71378.00 |
| 541640.30 | 4068098.90 | 2.07 | 894.30 | -2.02 | 71380.00 |
| 541637.80 | 4068099.00 | 1.97 | 894.20 | -1.93 | 71382.00 |
| 541635.30 | 4068098.80 | 2.65 | 894.10 | -1.94 | 71384.00 |
| 541632.80 | 4068098.60 | 2.17 | 894.20 | -1.97 | 71386.00 |
| 541630.50 | 4068098.40 | 2.18 | 894.10 | -1.92 | 71388.00 |
| 541628.00 | 4068098.30 | 2.33 | 894.00 | -1.95 | 71390.00 |
| 541625.50 | 4068098.90 | 2.19 | 894.10 | -1.99 | 71392.00 |
| 541623.10 | 4068099.20 | 2.27 | 894.30 | -1.91 | 71394.00 |
| 541620.70 | 4068099.30 | 1.87 | 894.30 | -2.11 | 71396.00 |
| 541618.20 | 4068099.10 | 1.90 | 894.20 | -2.17 | 71398.00 |
| 541615.60 | 4068099.20 | 2.30 | 894.20 | -2.12 | 71400.00 |
| 541613.00 | 4068099.00 | 2.55 | 894.10 | -2.02 | 71402.00 |
| 541610.40 | 4068098.60 | 2.51 | 894.10 | -2.06 | 71404.00 |
| 541607.80 | 4068098.50 | 2.48 | 894.10 | -2.07 | 71406.00 |
| 541605.20 | 4068098.20 | 2.28 | 894.20 | -2.00 | 71408.00 |
| 541602.70 | 4068098.30 | 2.50 | 894.30 | -2.06 | 71410.00 |
| 541600.30 | 4068098.20 | 2.38 | 894.20 | -2.05 | 71412.00 |
| 541597.80 | 4068098.00 | 2.36 | 894.00 | -2.01 | 71414.00 |
| 541595.10 | 4068098.00 | 2.60 | 893.90 | -1.92 | 71416.00 |
| 541592.50 | 4068097.70 | 2.40 | 894.00 | -2.09 | 71418.00 |
| 541589.90 | 4068097.60 | 2.34 | 894.00 | -2.05 | 71420.00 |
| 541587.50 | 4068097.70 | 2.22 | 894.20 | -2.09 | 71422.00 |
| 541585.10 | 4068097.80 | 2.62 | 894.10 | -2.13 | 71424.00 |
| 541582.50 | 4068098.20 | 2.83 | 894.10 | -2.05 | 71426.00 |
| 541579.90 | 4068098.10 | 2.73 | 894.00 | -2.06 | 71428.00 |
| 541577.50 | 4068098.90 | 3.22 | 894.00 | -1.95 | 71430.00 |
| 541575.10 | 4068099.50 | 3.13 | 894.00 | -2.06 | 71432.00 |
| 541572.60 | 4068099.00 | 3.33 | 893.90 | -2.07 | 71434.00 |
| 541570.10 | 4068099.10 | 3.47 | 894.00 | -1.95 | 71436.00 |
| 541567.70 | 4068099.50 | 3.53 | 893.90 | -1.95 | 71438.00 |
| 541565.20 | 4068099.90 | 3.88 | 894.00 | -2.09 | 71440.00 |
| 541562.80 | 4068100.00 | 3.19 | 894.00 | -1.94 | 71442.00 |
| 541560.40 | 4068099.70 | 3.53 | 894.00 | -2.00 | 71444.00 |
| 541557.90 | 4068099.30 | 3.73 | 894.10 | -2.06 | 71446.00 |
| 541555.30 | 4068099.30 | 3.86 | 894.10 | -2.08 | 71448.00 |
| 541552.90 | 4068098.80 | 3.33 | 894.00 | -2.06 | 71450.00 |
| 541550.40 | 4068099.50 | 2.96 | 894.00 | -2.04 | 71452.00 |
| 541547.90 | 4068099.60 | 2.89 | 894.00 | -2.15 | 71454.00 |
| 541545.30 | 4068099.10 | 3.28 | 893.90 | -2.02 | 71456.00 |
| 541542.80 | 4068098.60 | 3.00 | 893.80 | -1.97 | 71458.00 |
| 541540.30 | 4068099.00 | 2.99 | 893.80 | -2.01 | 71460.00 |
| 541537.70 | 4068099.00 | 2.71 | 893.80 | -2.12 | 71462.00 |
| 541535.30 | 4068099.40 | 2.95 | 893.80 | -2.04 | 71464.00 |

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| 541532.90 | 4068099.90 | 2.39 | 893.90 | -2.24 | 71466.00 |
| 541530.40 | 4068100.10 | 2.66 | 894.00 | -2.25 | 71468.00 |
| 541528.20 | 4068099.40 | 2.22 | 894.00 | -2.16 | 71470.00 |
| 541525.90 | 4068098.80 | 2.69 | 893.80 | -2.14 | 71472.00 |
| 541523.30 | 4068098.90 | 2.46 | 893.70 | -2.05 | 71474.00 |
| 541520.80 | 4068098.80 | 2.20 | 893.60 | -1.98 | 71476.00 |
| 541518.20 | 4068098.90 | 2.49 | 893.60 | -1.96 | 71478.00 |
| 541515.80 | 4068099.50 | 2.29 | 893.60 | -2.11 | 71480.00 |
| 541513.30 | 4068099.80 | 2.60 | 893.60 | -2.18 | 71482.00 |
| 541511.00 | 4068100.20 | 2.37 | 893.50 | -2.25 | 71484.00 |
| 541508.70 | 4068100.30 | 2.75 | 893.20 | -2.06 | 71486.00 |
| 541506.10 | 4068100.90 | 2.83 | 893.40 | -2.06 | 71488.00 |
| 541503.80 | 4068100.70 | 3.64 | 893.30 | -2.00 | 71490.00 |
| 541501.60 | 4068100.80 | 3.16 | 893.40 | -2.05 | 71492.00 |
| 541499.70 | 4068101.00 | 3.39 | 893.40 | -1.89 | 71494.00 |
| 541497.80 | 4068100.80 | 3.42 | 893.40 | -1.95 | 71532.00 |
| 541497.90 | 4068101.40 | 3.78 | 893.40 | -2.06 | 71534.00 |
| 541498.40 | 4068103.20 | 3.52 | 893.50 | -1.93 | 71536.00 |
| 541498.80 | 4068105.50 | 4.20 | 893.60 | -1.89 | 71538.00 |
| 541498.70 | 4068107.90 | 4.21 | 893.70 | -1.92 | 71540.00 |
| 541498.40 | 4068110.40 | 3.88 | 893.70 | -1.98 | 71542.00 |
| 541498.70 | 4068112.80 | 3.87 | 893.80 | -1.98 | 71544.00 |
| 541498.20 | 4068115.30 | 3.79 | 893.90 | -1.93 | 71546.00 |
| 541497.70 | 4068117.80 | 3.88 | 893.90 | -1.98 | 71548.00 |
| 541497.80 | 4068120.20 | 4.02 | 894.00 | -2.11 | 71550.00 |
| 541497.00 | 4068122.60 | 3.77 | 894.10 | -1.98 | 71552.00 |
| 541496.70 | 4068125.10 | 3.88 | 894.10 | -2.15 | 71554.00 |
| 541496.50 | 4068127.70 | 3.42 | 894.20 | -2.11 | 71556.00 |
| 541496.40 | 4068130.10 | 3.46 | 894.20 | -2.00 | 71558.00 |
| 541496.20 | 4068132.60 | 3.81 | 894.30 | -2.08 | 71560.00 |
| 541496.00 | 4068135.10 | 3.16 | 894.30 | -2.12 | 71562.00 |
| 541495.80 | 4068137.70 | 3.36 | 894.30 | -1.97 | 71564.00 |
| 541495.40 | 4068140.10 | 3.52 | 894.40 | -2.13 | 71566.00 |
| 541495.30 | 4068142.60 | 3.32 | 894.40 | -1.96 | 71568.00 |
| 541495.10 | 4068145.00 | 2.87 | 894.40 | -2.05 | 71570.00 |
| 541494.80 | 4068147.40 | 3.06 | 894.50 | -2.03 | 71572.00 |
| 541494.40 | 4068149.80 | 2.64 | 894.50 | -2.17 | 71574.00 |
| 541494.30 | 4068151.80 | 3.10 | 894.50 | -2.08 | 71576.00 |
| 541494.90 | 4068153.50 | 2.91 | 894.50 | -2.07 | 71594.00 |
| 541496.00 | 4068153.60 | 3.18 | 894.60 | -2.17 | 71596.00 |
| 541498.20 | 4068153.90 | 2.34 | 894.70 | -2.27 | 71598.00 |
| 541500.30 | 4068153.90 | 2.78 | 894.80 | -2.17 | 71600.00 |
| 541502.60 | 4068153.50 | 3.51 | 894.80 | -2.06 | 71602.00 |
| 541505.00 | 4068153.30 | 4.05 | 895.00 | -2.10 | 71604.00 |
| 541507.50 | 4068153.60 | 3.83 | 895.00 | -2.13 | 71606.00 |
| 541509.80 | 4068154.20 | 3.67 | 895.10 | -2.10 | 71608.00 |
| 541511.90 | 4068154.60 | 3.63 | 895.10 | -2.16 | 71610.00 |
| 541514.50 | 4068154.70 | 3.60 | 895.10 | -2.17 | 71612.00 |
| 541517.10 | 4068154.60 | 3.58 | 895.10 | -2.22 | 71614.00 |
| 541519.60 | 4068155.00 | 3.92 | 895.10 | -2.12 | 71616.00 |
| 541522.00 | 4068155.20 | 4.21 | 895.10 | -2.17 | 71618.00 |
| 541524.60 | 4068155.40 | 3.47 | 895.00 | -2.03 | 71620.00 |
| 541527.20 | 4068155.40 | 3.26 | 895.00 | -2.17 | 71622.00 |
| 541529.70 | 4068155.30 | 4.01 | 894.90 | -2.19 | 71624.00 |
| 541532.10 | 4068155.50 | 3.60 | 894.90 | -2.05 | 71626.00 |
| 541534.40 | 4068155.80 | 3.19 | 894.90 | -2.08 | 71628.00 |
| 541536.80 | 4068155.70 | 3.03 | 895.00 | -2.06 | 71630.00 |

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| 541539.10 | 4068156.00 | 2.84 | 895.00 | -2.02 | 71632.00 |
| 541541.40 | 4068156.80 | 2.23 | 895.10 | -2.24 | 71634.00 |
| 541543.60 | 4068156.90 | 2.51 | 895.10 | -2.18 | 71636.00 |
| 541546.20 | 4068156.60 | 2.87 | 895.10 | -2.21 | 71638.00 |
| 541548.70 | 4068156.60 | 2.78 | 895.10 | -2.05 | 71640.00 |
| 541550.80 | 4068156.90 | 2.79 | 895.20 | -2.09 | 71642.00 |
| 541553.00 | 4068156.80 | 2.80 | 895.20 | -2.09 | 71644.00 |
| 541555.40 | 4068156.20 | 2.93 | 895.20 | -2.09 | 71646.00 |
| 541557.50 | 4068155.20 | 2.88 | 895.20 | -2.16 | 71648.00 |
| 541559.10 | 4068153.60 | 3.32 | 895.00 | -2.11 | 71650.00 |
| 541561.00 | 4068152.20 | 3.27 | 895.00 | -2.02 | 71652.00 |
| 541563.40 | 4068151.80 | 3.18 | 895.10 | -2.23 | 71654.00 |
| 541565.80 | 4068152.20 | 3.97 | 895.20 | -1.93 | 71656.00 |
| 541568.30 | 4068152.50 | 3.87 | 895.30 | -2.14 | 71658.00 |
| 541570.80 | 4068152.60 | 3.61 | 895.30 | -1.94 | 71660.00 |
| 541573.30 | 4068152.80 | 3.23 | 895.40 | -2.12 | 71662.00 |
| 541575.80 | 4068153.20 | 3.39 | 895.40 | -2.09 | 71664.00 |
| 541578.30 | 4068153.50 | 3.20 | 895.40 | -2.10 | 71666.00 |
| 541580.90 | 4068153.30 | 3.21 | 895.40 | -2.10 | 71668.00 |
| 541583.30 | 4068153.50 | 3.07 | 895.40 | -1.99 | 71670.00 |
| 541585.70 | 4068152.90 | 2.87 | 895.40 | -2.04 | 71672.00 |
| 541587.90 | 4068152.60 | 2.95 | 895.50 | -2.00 | 71674.00 |
| 541590.10 | 4068153.10 | 2.82 | 895.50 | -2.02 | 71676.00 |
| 541592.20 | 4068153.70 | 2.69 | 895.50 | -2.05 | 71678.00 |
| 541594.50 | 4068153.60 | 2.70 | 895.50 | -2.07 | 71680.00 |
| 541597.00 | 4068153.50 | 2.90 | 895.40 | -1.91 | 71682.00 |
| 541599.40 | 4068153.40 | 2.76 | 895.30 | -2.08 | 71684.00 |
| 541601.90 | 4068153.60 | 2.77 | 895.10 | -1.78 | 71686.00 |
| 541604.30 | 4068152.90 | 2.63 | 895.20 | -1.72 | 71688.00 |
| 541606.10 | 4068151.30 | 2.19 | 895.40 | -2.23 | 71690.00 |
| 541608.40 | 4068150.80 | 2.16 | 895.40 | -2.21 | 71692.00 |
| 541610.80 | 4068151.40 | 2.01 | 895.40 | -2.06 | 71694.00 |
| 541613.20 | 4068151.50 | 2.11 | 895.40 | -2.17 | 71696.00 |
| 541615.60 | 4068151.60 | 2.08 | 895.50 | -2.09 | 71698.00 |
| 541618.10 | 4068151.80 | 2.27 | 895.50 | -2.06 | 71700.00 |
| 541620.60 | 4068151.60 | 2.37 | 895.50 | -1.88 | 71702.00 |
| 541623.10 | 4068151.20 | 2.48 | 895.50 | -1.82 | 71704.00 |
| 541625.60 | 4068151.00 | 2.12 | 895.50 | -1.89 | 71706.00 |
| 541628.10 | 4068150.90 | 2.33 | 895.50 | -1.98 | 71708.00 |
| 541630.70 | 4068151.20 | 2.06 | 895.30 | -1.91 | 71710.00 |
| 541633.30 | 4068151.40 | 2.41 | 895.30 | -1.87 | 71712.00 |
| 541635.60 | 4068151.10 | 2.21 | 895.50 | -1.91 | 71714.00 |
| 541638.20 | 4068151.30 | 2.03 | 895.40 | -1.97 | 71716.00 |
| 541640.70 | 4068151.50 | 1.71 | 895.50 | -2.03 | 71718.00 |
| 541642.80 | 4068151.30 | 2.04 | 895.40 | -1.93 | 71720.00 |
| 541645.20 | 4068150.60 | 2.39 | 895.30 | -1.97 | 71722.00 |
| 541647.40 | 4068150.90 | 1.97 | 895.30 | -1.79 | 71724.00 |
| 541649.70 | 4068150.60 | 2.00 | 895.40 | -1.83 | 71726.00 |
| 541651.80 | 4068150.80 | 1.79 | 895.50 | -1.98 | 71728.00 |
| 541654.20 | 4068151.10 | 2.12 | 895.50 | -1.91 | 71730.00 |
| 541656.50 | 4068150.80 | 2.18 | 895.60 | -1.93 | 71732.00 |
| 541659.10 | 4068150.70 | 2.43 | 895.50 | -1.96 | 71734.00 |
| 541661.70 | 4068150.70 | 2.21 | 895.50 | -2.01 | 71736.00 |
| 541664.10 | 4068150.90 | 2.26 | 895.60 | -2.01 | 71738.00 |
| 541666.70 | 4068151.30 | 2.22 | 895.40 | -1.91 | 71740.00 |
| 541669.30 | 4068151.20 | 2.24 | 895.40 | -1.98 | 71742.00 |
| 541671.80 | 4068150.60 | 1.99 | 895.60 | -2.04 | 71744.00 |

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| 541674.00 | 4068150.90 | 2.08 | 895.70 | -1.98 | 71746.00 |
| 541676.30 | 4068150.90 | 2.28 | 895.70 | -1.89 | 71748.00 |
| 541678.70 | 4068150.70 | 1.86 | 895.80 | -2.12 | 71750.00 |
| 541681.10 | 4068151.20 | 1.93 | 895.80 | -2.41 | 71752.00 |
| 541683.50 | 4068151.10 | 1.85 | 895.70 | -2.35 | 71754.00 |
| 541685.80 | 4068151.90 | 1.84 | 895.60 | -2.35 | 71756.00 |
| 541688.10 | 4068152.10 | 1.86 | 895.60 | -2.29 | 71758.00 |
| 541690.30 | 4068152.30 | 1.80 | 895.80 | -2.14 | 71760.00 |
| 541692.50 | 4068151.90 | 2.57 | 895.80 | -2.07 | 71762.00 |
| 541694.90 | 4068151.20 | 2.78 | 895.90 | -1.87 | 71764.00 |
| 541697.30 | 4068151.00 | 3.45 | 895.90 | -1.87 | 71766.00 |
| 541699.30 | 4068151.30 | 3.38 | 896.10 | -2.00 | 71768.00 |
| 541701.50 | 4068152.50 | 3.56 | 896.10 | -1.86 | 71770.00 |
| 541703.80 | 4068153.40 | 3.62 | 896.20 | -2.06 | 71772.00 |
| 541706.20 | 4068153.80 | 4.38 | 896.30 | -2.13 | 71774.00 |
| 541708.70 | 4068154.10 | 4.11 | 896.40 | -2.18 | 71776.00 |
| 541711.20 | 4068154.60 | 3.29 | 896.40 | -2.06 | 71778.00 |
| 541713.70 | 4068154.90 | 3.34 | 896.50 | -2.09 | 71780.00 |
| 541716.10 | 4068154.60 | 3.22 | 896.60 | -2.15 | 71782.00 |
| 541718.40 | 4068153.90 | 2.74 | 896.50 | -2.19 | 71784.00 |
| 541720.80 | 4068153.70 | 3.02 | 896.60 | -2.14 | 71786.00 |
| 541723.40 | 4068153.70 | 2.86 | 896.60 | -2.13 | 71788.00 |
| 541725.80 | 4068153.80 | 2.53 | 896.50 | -2.13 | 71790.00 |
| 541728.30 | 4068153.30 | 2.77 | 896.40 | -2.01 | 71792.00 |
| 541730.60 | 4068152.60 | 2.36 | 896.40 | -2.12 | 71794.00 |
| 541733.10 | 4068152.60 | 1.94 | 896.20 | -2.09 | 71796.00 |
| 541735.70 | 4068152.40 | 2.06 | 896.00 | -2.13 | 71798.00 |
| 541738.20 | 4068152.80 | 2.11 | 896.00 | -2.14 | 71800.00 |
| 541740.70 | 4068153.10 | 1.67 | 896.00 | -1.98 | 71802.00 |
| 541743.30 | 4068153.60 | 1.48 | 896.00 | -2.02 | 71804.00 |
| 541745.80 | 4068153.80 | 1.39 | 895.90 | -2.01 | 71806.00 |
| 541748.10 | 4068154.30 | 1.58 | 895.70 | -2.13 | 71808.00 |
| 541750.80 | 4068154.40 | 1.49 | 895.60 | -1.92 | 71810.00 |
| 541753.20 | 4068154.70 | 1.56 | 895.80 | -2.10 | 71812.00 |
| 541755.20 | 4068154.10 | 1.48 | 895.90 | -2.11 | 71814.00 |
| 541757.60 | 4068153.30 | 1.98 | 895.70 | -1.89 | 71816.00 |
| 541760.20 | 4068152.90 | 2.08 | 895.50 | -2.10 | 71818.00 |
| 541762.50 | 4068153.10 | 1.80 | 895.60 | -2.11 | 71820.00 |
| 541764.80 | 4068153.10 | 2.33 | 895.50 | -2.06 | 71822.00 |
| 541764.60 | 4068152.90 | 2.72 | 895.50 | -2.07 | 71858.00 |
| 541764.70 | 4068152.90 | 2.46 | 895.50 | -2.02 | 71859.00 |
| 541766.10 | 4068152.90 | 2.45 | 895.60 | -1.97 | 71861.00 |
| 541767.40 | 4068151.30 | 2.05 | 895.50 | -2.71 | 71863.00 |
| 541768.50 | 4068149.00 | 2.18 | 895.40 | -2.37 | 71865.00 |
| 541770.70 | 4068147.40 | 2.76 | 895.10 | -1.90 | 71867.00 |
| 541772.70 | 4068146.30 | 2.42 | 895.20 | -2.10 | 71869.00 |
| 541774.80 | 4068145.20 | 2.33 | 895.30 | -2.21 | 71871.00 |
| 541776.60 | 4068144.20 | 2.57 | 895.10 | -2.13 | 71873.00 |
| 541778.60 | 4068143.60 | 2.54 | 895.20 | -2.63 | 71875.00 |
| 541780.70 | 4068142.90 | 2.05 | 895.30 | -3.06 | 71877.00 |
| 541782.70 | 4068142.60 | 2.94 | 895.20 | -1.11 | 71879.00 |
| 541784.40 | 4068140.90 | 3.46 | 895.10 | -1.02 | 71881.00 |
| 541786.30 | 4068140.10 | 3.24 | 895.40 | -1.34 | 71883.00 |
| 541787.70 | 4068140.30 | 2.63 | 895.90 | -1.56 | 71885.00 |
| 541789.30 | 4068140.50 | 2.21 | 896.20 | -1.94 | 71887.00 |
| 541790.80 | 4068140.30 | 2.52 | 896.50 | -1.78 | 71889.00 |
| 541792.30 | 4068139.60 | 2.42 | 896.80 | -1.87 | 71891.00 |

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| 541794.10 | 4068138.90 | 2.76 | 897.00 | -2.55 | 71893.00 |
| 541795.80 | 4068138.20 | 3.09 | 897.10 | -2.84 | 71895.00 |
| 541797.50 | 4068138.10 | 2.40 | 897.20 | -2.69 | 71897.00 |
| 541799.60 | 4068137.70 | 3.19 | 897.30 | -2.28 | 71899.00 |
| 541801.80 | 4068137.90 | 4.70 | 897.20 | -2.28 | 71901.00 |
| 541803.70 | 4068137.90 | 3.92 | 897.40 | -1.98 | 71903.00 |
| 541805.60 | 4068137.90 | 2.68 | 897.60 | -1.55 | 71905.00 |
| 541807.60 | 4068138.80 | 3.45 | 897.80 | -1.20 | 71907.00 |
| 541809.30 | 4068140.10 | 4.14 | 897.80 | -1.13 | 71909.00 |
| 541811.20 | 4068141.30 | 3.78 | 897.90 | -0.96 | 71911.00 |
| 541812.90 | 4068142.70 | 4.24 | 898.00 | -1.10 | 71913.00 |
| 541814.50 | 4068144.20 | 3.60 | 898.00 | -1.15 | 71915.00 |
| 541816.50 | 4068145.40 | 3.85 | 898.00 | -0.69 | 71917.00 |
| 541818.60 | 4068146.60 | 3.73 | 898.10 | -0.69 | 71919.00 |
| 541820.50 | 4068147.80 | 4.14 | 898.30 | -0.98 | 71921.00 |
| 541822.50 | 4068148.90 | 4.38 | 898.40 | -1.54 | 71923.00 |
| 541824.30 | 4068150.00 | 3.48 | 898.50 | -1.46 | 71925.00 |
| 541826.50 | 4068150.70 | 4.52 | 898.80 | -0.87 | 71927.00 |
| 541828.80 | 4068150.90 | 4.86 | 898.80 | -0.11 | 71929.00 |
| 541831.10 | 4068150.70 | 4.38 | 899.00 | 0.06 | 71931.00 |
| 541833.50 | 4068150.50 | 4.73 | 899.10 | -0.17 | 71933.00 |
| 541835.80 | 4068150.00 | 3.53 | 899.30 | -0.50 | 71935.00 |
| 541838.20 | 4068150.00 | 3.68 | 899.40 | -0.95 | 71937.00 |
| 541840.50 | 4068150.40 | 3.96 | 899.50 | -1.31 | 71939.00 |
| 541842.80 | 4068150.60 | 3.33 | 899.60 | -1.45 | 71941.00 |
| 541845.10 | 4068150.60 | 3.07 | 899.70 | -1.47 | 71943.00 |
| 541847.30 | 4068151.00 | 4.28 | 899.80 | -1.17 | 71945.00 |
| 541849.60 | 4068151.40 | 3.97 | 899.90 | -0.94 | 71947.00 |
| 541851.80 | 4068152.10 | 4.09 | 900.00 | -1.13 | 71949.00 |
| 541854.20 | 4068152.60 | 4.09 | 900.10 | -1.13 | 71951.00 |
| 541856.50 | 4068153.20 | 5.09 | 900.20 | -1.00 | 71953.00 |
| 541858.80 | 4068153.60 | 4.64 | 900.30 | -1.53 | 71955.00 |
| 541861.20 | 4068154.10 | 4.68 | 900.40 | -1.70 | 71957.00 |
| 541863.60 | 4068153.90 | 5.00 | 900.50 | -1.69 | 71959.00 |
| 541865.80 | 4068153.40 | 4.21 | 900.60 | -1.84 | 71961.00 |
| 541868.20 | 4068153.20 | 5.43 | 900.70 | -1.74 | 71963.00 |
| 541870.70 | 4068153.10 | 5.40 | 900.80 | -1.68 | 71965.00 |
| 541873.10 | 4068152.90 | 4.95 | 900.90 | -1.84 | 71967.00 |
| 541875.40 | 4068152.90 | 3.80 | 901.00 | -1.97 | 71969.00 |
| 541877.70 | 4068153.30 | 4.93 | 901.20 | -2.00 | 71971.00 |
| 541879.90 | 4068153.40 | 4.58 | 901.20 | -1.25 | 71973.00 |
| 541882.20 | 4068153.30 | 4.25 | 901.40 | -1.32 | 71975.00 |
| 541884.60 | 4068152.80 | 4.58 | 901.40 | -1.54 | 71977.00 |
| 541886.90 | 4068152.50 | 5.00 | 901.50 | -1.27 | 71979.00 |
| 541889.20 | 4068152.50 | 4.52 | 901.60 | -1.80 | 71981.00 |
| 541891.50 | 4068152.20 | 4.63 | 901.70 | -1.58 | 71983.00 |
| 541893.80 | 4068152.30 | 3.93 | 901.80 | -1.77 | 71985.00 |
| 541896.00 | 4068152.70 | 4.26 | 901.80 | -1.42 | 71987.00 |
| 541898.30 | 4068152.50 | 4.52 | 902.00 | -1.69 | 71989.00 |
| 541900.60 | 4068152.30 | 4.14 | 902.00 | -1.28 | 71991.00 |
| 541902.80 | 4068151.70 | 4.72 | 902.10 | -1.98 | 71993.00 |
| 541905.00 | 4068151.60 | 3.93 | 902.10 | -1.87 | 71995.00 |
| 541907.40 | 4068151.10 | 5.11 | 902.10 | -1.29 | 71997.00 |
| 541909.70 | 4068150.70 | 4.28 | 902.10 | -1.66 | 71999.00 |
| 541911.80 | 4068150.60 | 4.72 | 902.20 | -0.94 | 72001.00 |
| 541914.00 | 4068150.40 | 5.08 | 902.20 | -1.36 | 72003.00 |
| 541916.30 | 4068150.30 | 4.32 | 902.30 | -1.72 | 72005.00 |

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| 541918.40 | 4068150.30 | 4.46 | 902.30 | -1.24 | 72007.00 |
| 541920.70 | 4068150.10 | 5.09 | 902.40 | -1.29 | 72009.00 |
| 541923.00 | 4068149.80 | 4.66 | 902.40 | -1.45 | 72011.00 |
| 541925.20 | 4068149.20 | 3.45 | 902.50 | -2.11 | 72013.00 |
| 541927.50 | 4068149.60 | 3.91 | 902.50 | -1.68 | 72015.00 |
| 541928.40 | 4068149.50 | 4.15 | 902.60 | -1.10 | 72016.00 |
| 541929.20 | 4068148.00 | 4.45 | 902.50 | -1.10 | 72056.00 |
| 541929.20 | 4068148.50 | 4.09 | 902.50 | -1.04 | 72058.00 |
| 541929.10 | 4068149.20 | 3.82 | 902.60 | -1.26 | 72059.00 |
| 541929.90 | 4068152.30 | 4.32 | 902.70 | -0.63 | 72062.00 |
| 541930.20 | 4068154.60 | 4.86 | 902.70 | -1.06 | 72064.00 |
| 541930.50 | 4068157.00 | 4.53 | 902.80 | -1.50 | 72066.00 |
| 541930.70 | 4068159.30 | 4.42 | 902.90 | -1.17 | 72068.00 |
| 541930.70 | 4068160.50 | 6.38 | 902.80 | -0.72 | 72069.00 |
| 541930.90 | 4068163.90 | 4.62 | 903.00 | -0.73 | 72072.00 |
| 541931.20 | 4068166.10 | 5.03 | 903.00 | -0.67 | 72074.00 |
| 541931.60 | 4068168.30 | 4.47 | 903.10 | -0.82 | 72076.00 |
| 541932.50 | 4068170.60 | 4.62 | 903.10 | -0.75 | 72078.00 |
| 541933.60 | 4068172.60 | 5.28 | 903.10 | -0.74 | 72080.00 |
| 541934.80 | 4068174.60 | 4.87 | 903.20 | -0.82 | 72082.00 |
| 541935.90 | 4068176.60 | 4.21 | 903.20 | -0.67 | 72084.00 |
| 541937.00 | 4068178.70 | 4.96 | 903.30 | -0.75 | 72086.00 |
| 541937.80 | 4068180.90 | 4.38 | 903.30 | -0.71 | 72088.00 |
| 541938.50 | 4068183.10 | 4.96 | 903.30 | -0.93 | 72090.00 |
| 541939.60 | 4068185.10 | 6.04 | 903.40 | -0.53 | 72092.00 |
| 541940.80 | 4068187.20 | 6.08 | 903.50 | -0.60 | 72094.00 |
| 541941.60 | 4068189.30 | 6.25 | 903.50 | -1.05 | 72096.00 |
| 541942.60 | 4068191.20 | 6.55 | 903.60 | -1.16 | 72098.00 |
| 541943.70 | 4068193.20 | 5.87 | 903.70 | -1.73 | 72100.00 |
| 541944.80 | 4068195.20 | 6.16 | 903.70 | -1.81 | 72102.00 |
| 541945.20 | 4068197.30 | 5.18 | 903.70 | -1.79 | 72104.00 |
| 541945.60 | 4068199.30 | 6.13 | 903.70 | -1.73 | 72106.00 |
| 541946.80 | 4068201.00 | 6.58 | 903.70 | -1.48 | 72133.00 |
| 541946.70 | 4068201.00 | 5.22 | 903.70 | -1.10 | 72134.00 |
| 541946.20 | 4068201.30 | 5.39 | 903.70 | -1.37 | 72135.00 |
| 541944.30 | 4068201.60 | 5.98 | 903.70 | -0.87 | 72137.00 |
| 541942.10 | 4068202.50 | 6.21 | 903.60 | -1.01 | 72139.00 |
| 541939.80 | 4068203.10 | 5.47 | 903.60 | -1.68 | 72141.00 |
| 541937.30 | 4068202.90 | 5.18 | 903.50 | -1.79 | 72143.00 |
| 541935.20 | 4068202.80 | 5.92 | 903.40 | -0.97 | 72145.00 |
| 541932.90 | 4068202.60 | 6.27 | 903.30 | -0.94 | 72147.00 |
| 541930.40 | 4068203.10 | 6.08 | 903.20 | -0.89 | 72149.00 |
| 541927.80 | 4068203.20 | 6.62 | 903.20 | -0.28 | 72151.00 |
| 541925.40 | 4068203.00 | 7.35 | 903.10 | -1.31 | 72153.00 |
| 541922.90 | 4068202.90 | 7.90 | 902.90 | -2.47 | 72155.00 |
| 541920.60 | 4068202.50 | 9.73 | 902.90 | -2.03 | 72157.00 |
| 541918.10 | 4068201.90 | 12.02 | 902.70 | -2.54 | 72159.00 |
| 541915.60 | 4068202.10 | 13.19 | 902.70 | -2.92 | 72161.00 |
| 541913.20 | 4068201.70 | 13.62 | 902.60 | -3.01 | 72163.00 |
| 541910.80 | 4068201.20 | 12.75 | 902.60 | -3.10 | 72165.00 |
| 541908.50 | 4068201.30 | 9.98 | 902.50 | -2.75 | 72167.00 |
| 541906.20 | 4068201.80 | 9.85 | 902.40 | -2.37 | 72169.00 |
| 541903.70 | 4068201.90 | 9.51 | 902.30 | -1.90 | 72171.00 |
| 541901.40 | 4068201.70 | 9.24 | 902.20 | -2.10 | 72173.00 |
| 541899.10 | 4068201.40 | 10.24 | 902.00 | -2.24 | 72175.00 |
| 541897.00 | 4068201.40 | 10.97 | 902.00 | -3.26 | 72177.00 |
| 541894.60 | 4068201.10 | 11.42 | 901.90 | -3.37 | 72179.00 |

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| 541892.30 | 4068200.90 | 10.66 | 901.90 | -3.12 | 72181.00 |
| 541889.90 | 4068201.10 | 10.07 | 901.80 | -2.49 | 72183.00 |
| 541887.50 | 4068200.90 | 8.30 | 901.60 | -2.49 | 72185.00 |
| 541885.00 | 4068200.50 | 6.27 | 901.50 | -2.37 | 72187.00 |
| 541882.60 | 4068200.10 | 7.05 | 901.50 | -1.15 | 72189.00 |
| 541880.10 | 4068199.60 | 6.36 | 901.20 | -1.18 | 72191.00 |
| 541877.60 | 4068199.50 | 5.45 | 901.20 | -1.49 | 72193.00 |
| 541875.20 | 4068199.00 | 4.84 | 901.10 | -1.09 | 72195.00 |
| 541872.80 | 4068198.90 | 4.87 | 900.90 | -0.72 | 72197.00 |
| 541870.30 | 4068198.70 | 4.05 | 900.80 | -0.57 | 72199.00 |
| 541867.80 | 4068198.50 | 3.45 | 900.60 | -1.56 | 72201.00 |
| 541865.30 | 4068198.30 | 3.37 | 900.50 | -1.47 | 72203.00 |
| 541862.80 | 4068198.10 | 3.37 | 900.30 | -1.65 | 72205.00 |
| 541860.60 | 4068198.60 | 3.67 | 900.00 | -1.60 | 72207.00 |
| 541858.40 | 4068198.60 | 3.25 | 899.90 | -0.88 | 72209.00 |
| 541856.40 | 4068198.50 | 3.69 | 899.60 | -0.88 | 72211.00 |
| 541854.20 | 4068198.20 | 4.69 | 899.50 | -0.18 | 72213.00 |
| 541852.30 | 4068197.80 | 3.76 | 899.60 | -1.81 | 72215.00 |
| 541850.40 | 4068197.20 | 3.13 | 899.80 | -2.95 | 72217.00 |
| 541848.20 | 4068197.00 | 4.18 | 899.80 | -2.78 | 72219.00 |
| 541845.90 | 4068196.60 | 3.87 | 899.90 | -2.97 | 72221.00 |
| 541843.50 | 4068196.90 | 4.13 | 899.80 | -3.17 | 72223.00 |
| 541841.10 | 4068197.10 | 4.72 | 899.80 | -3.23 | 72225.00 |
| 541838.90 | 4068198.00 | 4.68 | 899.90 | -3.33 | 72227.00 |
| 541836.70 | 4068197.50 | 4.76 | 899.80 | -3.54 | 72229.00 |
| 541834.20 | 4068197.30 | 4.77 | 899.90 | -3.31 | 72231.00 |
| 541831.60 | 4068197.40 | 6.21 | 899.70 | -3.40 | 72233.00 |
| 541829.10 | 4068197.60 | 6.35 | 899.70 | -3.03 | 72235.00 |
| 541826.60 | 4068197.80 | 6.00 | 899.70 | -3.01 | 72237.00 |
| 541824.10 | 4068198.20 | 5.78 | 899.60 | -2.98 | 72239.00 |
| 541821.80 | 4068198.80 | 5.18 | 899.60 | -3.07 | 72241.00 |
| 541819.60 | 4068199.70 | 4.63 | 899.60 | -3.20 | 72243.00 |
| 541817.10 | 4068200.10 | 4.67 | 899.50 | -3.34 | 72245.00 |
| 541814.70 | 4068200.20 | 4.09 | 899.40 | -3.24 | 72247.00 |
| 541812.30 | 4068199.90 | 3.83 | 899.30 | -3.16 | 72249.00 |
| 541809.90 | 4068200.00 | 3.41 | 899.10 | -3.11 | 72251.00 |
| 541807.80 | 4068199.60 | 3.17 | 899.00 | -3.10 | 72253.00 |
| 541805.50 | 4068199.30 | 3.46 | 898.80 | -2.93 | 72255.00 |
| 541803.30 | 4068199.50 | 3.18 | 898.50 | -2.96 | 72257.00 |
| 541801.20 | 4068199.80 | 3.39 | 898.30 | -2.70 | 72259.00 |
| 541799.30 | 4068199.10 | 2.84 | 898.00 | -2.81 | 72261.00 |
| 541797.40 | 4068198.50 | 2.23 | 897.60 | -2.48 | 72263.00 |
| 541795.40 | 4068198.30 | 2.09 | 897.30 | -2.27 | 72265.00 |
| 541793.80 | 4068198.20 | 2.91 | 896.90 | -2.08 | 72267.00 |
| 541791.80 | 4068198.30 | 3.37 | 896.20 | -2.18 | 72269.00 |
| 541789.70 | 4068198.00 | 2.50 | 896.10 | -1.98 | 72271.00 |
| 541787.40 | 4068198.50 | 2.02 | 896.00 | -1.81 | 72273.00 |
| 541785.10 | 4068199.20 | 1.84 | 896.10 | -1.58 | 72275.00 |
| 541783.20 | 4068198.90 | 1.61 | 896.30 | -2.01 | 72277.00 |
| 541781.00 | 4068198.90 | 1.90 | 896.50 | -2.01 | 72279.00 |
| 541779.00 | 4068198.80 | 1.83 | 896.40 | -1.94 | 72281.00 |
| 541776.60 | 4068199.10 | 1.72 | 896.40 | -2.01 | 72283.00 |
| 541774.50 | 4068199.80 | 1.51 | 896.50 | -1.78 | 72303.00 |
| 541773.80 | 4068199.70 | 1.27 | 896.60 | -2.02 | 72305.00 |
| 541772.10 | 4068199.30 | 1.98 | 896.50 | -2.02 | 72307.00 |
| 541769.90 | 4068198.60 | 1.82 | 896.50 | -2.07 | 72309.00 |
| 541767.30 | 4068198.40 | 1.80 | 896.50 | -1.93 | 72311.00 |

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| 541765.00 | 4068198.10 | 1.51 | 896.70 | -2.00 | 72313.00 |
| 541762.90 | 4068198.40 | 1.05 | 896.90 | -2.71 | 72315.00 |
| 541760.40 | 4068197.80 | 1.48 | 896.80 | -1.96 | 72317.00 |
| 541757.90 | 4068197.50 | 1.88 | 896.60 | -1.88 | 72319.00 |
| 541755.20 | 4068197.40 | 1.52 | 896.70 | -1.85 | 72321.00 |
| 541752.80 | 4068197.00 | 1.39 | 896.80 | -2.02 | 72323.00 |
| 541750.40 | 4068197.10 | 1.38 | 896.90 | -1.96 | 72325.00 |
| 541748.00 | 4068196.90 | 1.36 | 896.90 | -1.94 | 72327.00 |
| 541745.60 | 4068196.30 | 1.28 | 897.00 | -1.96 | 72329.00 |
| 541743.20 | 4068197.10 | 1.51 | 896.90 | -2.02 | 72331.00 |
| 541740.60 | 4068197.60 | 1.65 | 896.80 | -2.13 | 72333.00 |
| 541738.30 | 4068196.80 | 2.07 | 896.70 | -1.96 | 72335.00 |
| 541735.80 | 4068196.10 | 2.34 | 896.80 | -1.85 | 72337.00 |
| 541733.40 | 4068195.80 | 2.73 | 897.00 | -1.77 | 72339.00 |
| 541731.30 | 4068195.60 | 2.36 | 897.30 | -1.87 | 72341.00 |
| 541728.80 | 4068195.30 | 3.28 | 897.40 | -1.96 | 72343.00 |
| 541726.40 | 4068194.90 | 3.54 | 897.40 | -1.81 | 72345.00 |
| 541724.00 | 4068194.70 | 4.18 | 897.40 | -1.96 | 72347.00 |
| 541721.40 | 4068194.70 | 3.90 | 897.40 | -1.94 | 72349.00 |
| 541719.00 | 4068194.90 | 4.01 | 897.40 | -1.95 | 72351.00 |
| 541716.40 | 4068195.50 | 2.95 | 897.40 | -2.00 | 72353.00 |
| 541714.20 | 4068196.60 | 3.64 | 897.40 | -2.09 | 72355.00 |
| 541712.30 | 4068198.00 | 3.23 | 897.50 | -2.12 | 72357.00 |
| 541710.10 | 4068199.10 | 3.16 | 897.50 | -1.97 | 72359.00 |
| 541707.80 | 4068199.60 | 3.02 | 897.50 | -1.98 | 72361.00 |
| 541705.50 | 4068199.60 | 3.60 | 897.50 | -2.04 | 72363.00 |
| 541703.00 | 4068199.30 | 3.08 | 897.40 | -2.00 | 72365.00 |
| 541700.40 | 4068199.50 | 2.04 | 897.30 | -2.08 | 72367.00 |
| 541698.00 | 4068199.60 | 2.48 | 897.20 | -2.15 | 72369.00 |
| 541695.50 | 4068199.10 | 2.69 | 896.70 | -1.89 | 72371.00 |
| 541692.80 | 4068199.70 | 2.11 | 896.80 | -1.89 | 72373.00 |
| 541690.20 | 4068199.50 | 1.90 | 896.80 | -1.86 | 72375.00 |
| 541687.70 | 4068199.30 | 1.94 | 896.90 | -2.06 | 72377.00 |
| 541685.30 | 4068198.90 | 1.66 | 897.20 | -1.99 | 72379.00 |
| 541682.90 | 4068199.20 | 1.80 | 897.10 | -1.92 | 72381.00 |
| 541680.50 | 4068199.70 | 1.04 | 897.20 | -1.97 | 72383.00 |
| 541678.30 | 4068200.00 | 1.89 | 897.20 | -2.03 | 72385.00 |
| 541676.00 | 4068199.60 | 1.82 | 897.20 | -2.05 | 72387.00 |
| 541673.40 | 4068199.60 | 1.71 | 897.10 | -2.03 | 72389.00 |
| 541671.20 | 4068199.40 | 1.63 | 897.10 | -2.10 | 72391.00 |
| 541668.90 | 4068199.20 | 1.93 | 896.90 | -2.14 | 72393.00 |
| 541666.60 | 4068199.20 | 1.78 | 897.00 | -2.19 | 72395.00 |
| 541664.00 | 4068199.50 | 1.86 | 896.90 | -2.16 | 72397.00 |
| 541661.60 | 4068199.50 | 1.70 | 896.90 | -2.18 | 72399.00 |
| 541659.10 | 4068199.40 | 1.79 | 896.80 | -2.15 | 72401.00 |
| 541656.60 | 4068199.30 | 1.81 | 896.70 | -2.00 | 72403.00 |
| 541654.50 | 4068199.60 | 1.99 | 896.50 | -1.90 | 72405.00 |
| 541652.00 | 4068199.80 | 2.25 | 896.40 | -1.70 | 72407.00 |
| 541649.70 | 4068199.80 | 2.01 | 896.60 | -1.83 | 72409.00 |
| 541647.40 | 4068199.50 | 2.02 | 896.60 | -1.91 | 72411.00 |
| 541644.90 | 4068198.90 | 2.07 | 896.60 | -1.91 | 72413.00 |
| 541642.40 | 4068198.80 | 2.20 | 896.70 | -1.89 | 72415.00 |
| 541640.00 | 4068198.60 | 2.22 | 896.70 | -1.96 | 72417.00 |
| 541637.70 | 4068198.20 | 2.04 | 896.70 | -1.90 | 72419.00 |
| 541635.30 | 4068198.30 | 2.29 | 896.80 | -1.93 | 72421.00 |
| 541633.20 | 4068197.30 | 2.48 | 896.70 | -1.92 | 72423.00 |
| 541631.10 | 4068197.70 | 2.12 | 896.80 | -2.32 | 72425.00 |

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| 541629.00 | 4068198.20 | 1.41 | 896.80 | -2.91 | 72427.00 |
| 541626.50 | 4068198.20 | 2.32 | 896.60 | -2.10 | 72429.00 |
| 541624.00 | 4068198.60 | 2.27 | 896.50 | -2.30 | 72431.00 |
| 541621.30 | 4068198.70 | 2.37 | 896.40 | -1.98 | 72433.00 |
| 541618.80 | 4068198.60 | 2.26 | 896.50 | -1.89 | 72435.00 |
| 541616.50 | 4068198.50 | 2.10 | 896.60 | -1.94 | 72437.00 |
| 541614.10 | 4068198.10 | 2.39 | 896.50 | -2.06 | 72439.00 |
| 541611.70 | 4068198.20 | 2.85 | 896.30 | -2.02 | 72441.00 |
| 541609.20 | 4068198.20 | 2.11 | 896.40 | -2.09 | 72443.00 |
| 541607.20 | 4068197.90 | 2.87 | 896.60 | -2.03 | 72445.00 |
| 541604.80 | 4068197.60 | 3.23 | 896.70 | -1.98 | 72447.00 |
| 541602.50 | 4068197.30 | 3.07 | 896.60 | -2.01 | 72449.00 |
| 541600.10 | 4068197.40 | 3.03 | 896.60 | -2.16 | 72451.00 |
| 541597.80 | 4068197.50 | 3.04 | 896.70 | -2.55 | 72453.00 |
| 541595.20 | 4068197.40 | 3.48 | 896.50 | -2.54 | 72455.00 |
| 541592.90 | 4068196.90 | 3.24 | 896.60 | -2.43 | 72457.00 |
| 541590.50 | 4068196.50 | 3.02 | 896.50 | -2.27 | 72459.00 |
| 541588.10 | 4068196.50 | 3.10 | 896.40 | -2.21 | 72461.00 |
| 541585.70 | 4068196.80 | 3.29 | 896.40 | -2.33 | 72463.00 |
| 541583.10 | 4068196.90 | 3.50 | 896.30 | -2.28 | 72465.00 |
| 541580.70 | 4068197.10 | 3.34 | 896.40 | -2.26 | 72467.00 |
| 541578.40 | 4068196.80 | 3.19 | 896.30 | -2.00 | 72469.00 |
| 541576.20 | 4068196.80 | 3.20 | 896.40 | -2.27 | 72471.00 |
| 541573.80 | 4068196.50 | 3.02 | 896.30 | -2.22 | 72473.00 |
| 541571.70 | 4068196.30 | 3.02 | 896.30 | -2.11 | 72475.00 |
| 541569.10 | 4068196.50 | 3.01 | 896.20 | -1.79 | 72477.00 |
| 541566.70 | 4068196.50 | 3.05 | 896.30 | -1.98 | 72479.00 |
| 541564.50 | 4068197.10 | 2.75 | 896.20 | -2.52 | 72481.00 |
| 541561.90 | 4068197.10 | 2.94 | 896.10 | -2.01 | 72483.00 |
| 541559.60 | 4068196.80 | 3.39 | 896.10 | -1.89 | 72485.00 |
| 541557.30 | 4068197.30 | 3.54 | 896.10 | -2.00 | 72487.00 |
| 541555.00 | 4068197.60 | 3.36 | 896.10 | -2.28 | 72489.00 |
| 541552.50 | 4068197.10 | 3.61 | 896.10 | -2.03 | 72491.00 |
| 541550.10 | 4068196.50 | 3.58 | 896.20 | -2.01 | 72493.00 |
| 541547.70 | 4068196.30 | 3.90 | 896.20 | -2.09 | 72495.00 |
| 541545.20 | 4068196.30 | 3.92 | 896.20 | -2.04 | 72497.00 |
| 541542.90 | 4068196.10 | 3.85 | 896.30 | -2.00 | 72499.00 |
| 541540.60 | 4068195.80 | 3.67 | 896.20 | -2.09 | 72501.00 |
| 541538.30 | 4068195.70 | 3.43 | 896.20 | -2.09 | 72503.00 |
| 541535.80 | 4068195.70 | 3.92 | 896.10 | -2.11 | 72505.00 |
| 541533.30 | 4068196.20 | 3.80 | 896.10 | -2.14 | 72507.00 |
| 541530.70 | 4068196.30 | 3.35 | 896.10 | -1.89 | 72509.00 |
| 541528.20 | 4068196.60 | 2.99 | 896.10 | -2.06 | 72511.00 |
| 541525.80 | 4068197.10 | 3.07 | 896.10 | -1.89 | 72513.00 |
| 541523.50 | 4068197.20 | 3.25 | 896.10 | -2.09 | 72515.00 |
| 541521.20 | 4068196.60 | 3.27 | 896.00 | -2.06 | 72517.00 |
| 541518.60 | 4068196.70 | 3.14 | 895.90 | -2.00 | 72519.00 |
| 541516.00 | 4068196.70 | 2.87 | 895.80 | -1.90 | 72521.00 |
| 541513.60 | 4068197.00 | 2.75 | 895.80 | -2.11 | 72523.00 |
| 541511.20 | 4068197.00 | 2.82 | 895.70 | -2.16 | 72525.00 |
| 541508.70 | 4068196.80 | 3.47 | 895.50 | -2.17 | 72527.00 |
| 541506.40 | 4068196.40 | 3.16 | 895.60 | -2.03 | 72529.00 |
| 541504.10 | 4068196.80 | 2.77 | 895.50 | -2.14 | 72531.00 |
| 541502.00 | 4068197.60 | 2.31 | 895.60 | -1.89 | 72533.00 |
| 541500.90 | 4068198.00 | 2.73 | 895.60 | -2.02 | 72534.00 |
| 541497.90 | 4068198.70 | 2.66 | 895.60 | -2.10 | 72929.00 |
| 541498.00 | 4068198.80 | 3.12 | 895.70 | -2.21 | 72930.00 |

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| 541498.00 | 4068199.20 | 3.13 | 895.70 | -2.20 | 72932.00 |
| 541498.10 | 4068200.50 | 2.92 | 895.80 | -2.08 | 72934.00 |
| 541498.20 | 4068202.40 | 2.73 | 895.90 | -2.20 | 72936.00 |
| 541498.10 | 4068204.50 | 2.86 | 895.90 | -2.11 | 72938.00 |
| 541498.20 | 4068206.40 | 2.88 | 895.90 | -2.00 | 72940.00 |
| 541498.50 | 4068208.60 | 2.12 | 895.90 | -2.06 | 72942.00 |
| 541498.80 | 4068210.90 | 3.29 | 896.10 | -2.02 | 72944.00 |
| 541498.50 | 4068213.20 | 3.06 | 896.10 | -2.17 | 72946.00 |
| 541497.80 | 4068215.50 | 3.40 | 896.10 | -2.11 | 72948.00 |
| 541497.20 | 4068217.90 | 3.07 | 896.20 | -2.13 | 72950.00 |
| 541496.90 | 4068220.00 | 2.86 | 896.20 | -2.12 | 72952.00 |
| 541497.80 | 4068222.10 | 3.27 | 896.30 | -2.25 | 72954.00 |
| 541498.20 | 4068224.20 | 3.31 | 896.40 | -2.42 | 72956.00 |
| 541497.90 | 4068226.50 | 3.00 | 896.40 | -2.23 | 72958.00 |
| 541497.70 | 4068228.60 | 3.20 | 896.40 | -2.15 | 72960.00 |
| 541497.90 | 4068230.90 | 3.08 | 896.40 | -2.07 | 72962.00 |
| 541498.00 | 4068233.10 | 3.40 | 896.50 | -2.14 | 72964.00 |
| 541498.30 | 4068235.20 | 3.46 | 896.50 | -2.17 | 72966.00 |
| 541498.10 | 4068237.30 | 3.71 | 896.60 | -2.11 | 72968.00 |
| 541497.60 | 4068239.30 | 3.59 | 896.60 | -2.19 | 72970.00 |
| 541497.60 | 4068241.50 | 3.61 | 896.60 | -2.17 | 72972.00 |
| 541497.60 | 4068243.70 | 3.73 | 896.70 | -2.07 | 72974.00 |
| 541496.80 | 4068245.40 | 3.87 | 896.80 | -2.01 | 72976.00 |
| 541496.60 | 4068247.30 | 3.81 | 896.80 | -1.84 | 72978.00 |
| 541496.50 | 4068249.20 | 3.83 | 896.80 | -1.85 | 72980.00 |
| 541496.50 | 4068250.20 | 3.75 | 896.80 | -1.98 | 72981.00 |
| 541496.60 | 4068252.50 | 3.87 | 896.90 | -1.86 | 72997.50 |
| 541496.90 | 4068252.70 | 3.52 | 897.00 | -1.91 | 72999.00 |
| 541498.60 | 4068252.40 | 3.86 | 897.00 | -2.19 | 73001.00 |
| 541500.80 | 4068252.50 | 3.40 | 897.00 | -2.26 | 73003.00 |
| 541503.00 | 4068252.40 | 3.92 | 897.00 | -2.17 | 73005.00 |
| 541505.30 | 4068251.80 | 3.57 | 897.00 | -2.21 | 73007.00 |
| 541507.50 | 4068251.90 | 3.82 | 897.10 | -2.09 | 73009.00 |
| 541509.70 | 4068251.90 | 3.88 | 897.10 | -2.20 | 73011.00 |
| 541511.90 | 4068251.30 | 4.08 | 897.20 | -2.20 | 73013.00 |
| 541514.20 | 4068251.10 | 3.74 | 897.10 | -2.10 | 73015.00 |
| 541516.30 | 4068250.70 | 3.93 | 897.20 | -2.22 | 73017.00 |
| 541518.30 | 4068249.80 | 3.83 | 897.20 | -2.13 | 73019.00 |
| 541520.50 | 4068249.10 | 3.11 | 897.20 | -2.23 | 73021.00 |
| 541522.80 | 4068248.60 | 3.57 | 897.10 | -2.07 | 73023.00 |
| 541525.10 | 4068248.20 | 4.03 | 897.00 | -2.27 | 73025.00 |
| 541527.40 | 4068248.10 | 3.42 | 897.00 | -2.20 | 73027.00 |
| 541529.80 | 4068248.00 | 3.50 | 897.10 | -2.06 | 73029.00 |
| 541531.90 | 4068248.50 | 3.55 | 897.20 | -2.12 | 73031.00 |
| 541534.20 | 4068248.30 | 3.33 | 897.20 | -2.11 | 73033.00 |
| 541536.40 | 4068248.40 | 3.66 | 897.30 | -1.96 | 73035.00 |
| 541538.60 | 4068248.40 | 3.53 | 897.30 | -2.09 | 73037.00 |
| 541540.90 | 4068248.50 | 3.55 | 897.40 | -1.84 | 73039.00 |
| 541543.20 | 4068248.60 | 4.06 | 897.50 | -1.84 | 73041.00 |
| 541545.40 | 4068248.00 | 3.77 | 897.40 | -2.02 | 73043.00 |
| 541547.90 | 4068248.20 | 3.73 | 897.50 | -1.97 | 73045.00 |
| 541550.20 | 4068248.30 | 3.63 | 897.50 | -2.19 | 73047.00 |
| 541552.70 | 4068248.10 | 3.66 | 897.40 | -2.02 | 73049.00 |
| 541555.10 | 4068248.00 | 4.12 | 897.50 | -2.07 | 73051.00 |
| 541557.50 | 4068248.10 | 3.73 | 897.50 | -2.09 | 73053.00 |
| 541559.90 | 4068248.20 | 3.90 | 897.50 | -1.83 | 73055.00 |
| 541562.10 | 4068248.10 | 3.27 | 897.50 | -1.98 | 73057.00 |

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| 541564.40 | 4068247.80 | 3.52 | 897.50 | -2.14 | 73059.00 |
| 541566.80 | 4068248.00 | 3.75 | 897.50 | -2.01 | 73061.00 |
| 541569.10 | 4068247.60 | 3.25 | 897.40 | -1.90 | 73063.00 |
| 541571.40 | 4068247.20 | 3.63 | 897.20 | -1.88 | 73065.00 |
| 541573.80 | 4068247.40 | 3.33 | 897.30 | -1.74 | 73067.00 |
| 541576.20 | 4068247.30 | 3.60 | 897.40 | -1.91 | 73069.00 |
| 541578.50 | 4068247.40 | 3.18 | 897.40 | -1.89 | 73071.00 |
| 541581.10 | 4068247.00 | 2.92 | 897.50 | -1.82 | 73073.00 |
| 541583.70 | 4068247.10 | 3.34 | 897.50 | -1.99 | 73075.00 |
| 541586.10 | 4068246.90 | 3.43 | 897.60 | -1.88 | 73077.00 |
| 541588.50 | 4068246.60 | 3.63 | 897.60 | -2.01 | 73079.00 |
| 541591.00 | 4068246.40 | 3.80 | 897.60 | -1.97 | 73081.00 |
| 541593.30 | 4068245.70 | 3.64 | 897.70 | -2.00 | 73083.00 |
| 541595.80 | 4068245.50 | 4.25 | 897.70 | -1.99 | 73085.00 |
| 541598.30 | 4068245.20 | 3.74 | 897.70 | -1.86 | 73087.00 |
| 541600.70 | 4068245.50 | 3.36 | 897.80 | -1.88 | 73089.00 |
| 541603.20 | 4068245.60 | 3.39 | 897.90 | -1.95 | 73091.00 |
| 541605.60 | 4068245.50 | 3.39 | 897.90 | -1.90 | 73093.00 |
| 541607.90 | 4068245.90 | 3.27 | 897.90 | -1.99 | 73095.00 |
| 541610.40 | 4068245.80 | 2.81 | 898.00 | -2.11 | 73097.00 |
| 541612.80 | 4068245.10 | 3.20 | 897.90 | -1.89 | 73099.00 |
| 541615.10 | 4068245.70 | 3.16 | 897.90 | -1.88 | 73101.00 |
| 541617.50 | 4068246.00 | 2.78 | 897.90 | -1.86 | 73103.00 |
| 541619.80 | 4068246.70 | 2.38 | 898.00 | -1.80 | 73105.00 |
| 541621.90 | 4068247.30 | 2.82 | 897.80 | -1.91 | 73107.00 |
| 541624.00 | 4068247.70 | 3.23 | 897.50 | -1.74 | 73109.00 |
| 541626.30 | 4068248.40 | 2.39 | 897.70 | -1.84 | 73111.00 |
| 541628.50 | 4068248.20 | 2.49 | 897.80 | -1.86 | 73113.00 |
| 541630.70 | 4068248.10 | 2.42 | 898.00 | -1.76 | 73115.00 |
| 541633.00 | 4068248.20 | 2.65 | 898.00 | -1.75 | 73117.00 |
| 541635.40 | 4068248.40 | 2.26 | 897.90 | -1.92 | 73119.00 |
| 541637.90 | 4068248.80 | 2.97 | 897.80 | -1.80 | 73121.00 |
| 541640.40 | 4068249.10 | 2.21 | 897.80 | -1.83 | 73123.00 |
| 541642.80 | 4068249.40 | 1.90 | 897.90 | -1.90 | 73125.00 |
| 541645.30 | 4068250.00 | 2.53 | 897.90 | -1.88 | 73127.00 |
| 541647.40 | 4068250.90 | 2.48 | 897.90 | -1.77 | 73129.00 |
| 541649.60 | 4068251.40 | 1.94 | 898.00 | -1.79 | 73131.00 |
| 541652.00 | 4068251.70 | 2.05 | 897.90 | -1.79 | 73133.00 |
| 541654.40 | 4068251.40 | 2.34 | 898.10 | -1.79 | 73135.00 |
| 541656.70 | 4068251.60 | 2.02 | 898.10 | -1.86 | 73137.00 |
| 541659.20 | 4068251.50 | 1.84 | 898.00 | -1.93 | 73139.00 |
| 541661.50 | 4068251.10 | 2.20 | 898.00 | -1.98 | 73141.00 |
| 541664.10 | 4068251.10 | 2.26 | 898.00 | -1.86 | 73143.00 |
| 541666.20 | 4068251.10 | 1.93 | 898.00 | -2.66 | 73145.00 |
| 541668.30 | 4068251.20 | 2.39 | 897.90 | -1.58 | 73147.00 |
| 541670.50 | 4068250.80 | 1.99 | 898.00 | -1.74 | 73149.00 |
| 541672.90 | 4068250.90 | 2.21 | 898.00 | -1.66 | 73151.00 |
| 541675.20 | 4068250.60 | 1.89 | 898.10 | -1.73 | 73153.00 |
| 541677.50 | 4068250.60 | 1.78 | 898.20 | -1.84 | 73155.00 |
| 541680.10 | 4068250.30 | 2.13 | 898.20 | -1.71 | 73157.00 |
| 541682.60 | 4068250.30 | 1.83 | 898.20 | -1.79 | 73159.00 |
| 541685.20 | 4068250.00 | 1.91 | 898.20 | -1.84 | 73161.00 |
| 541687.60 | 4068249.80 | 2.12 | 898.30 | -1.93 | 73163.00 |
| 541690.00 | 4068249.50 | 1.94 | 898.30 | -1.88 | 73165.00 |
| 541692.50 | 4068250.10 | 2.62 | 898.20 | -1.96 | 73167.00 |
| 541695.10 | 4068250.30 | 3.35 | 898.10 | -1.64 | 73169.00 |
| 541697.70 | 4068251.00 | 2.48 | 898.20 | -1.88 | 73171.00 |

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| 541699.80 | 4068250.70 | 3.48 | 898.40 | -1.93 | 73173.00 |
| 541702.10 | 4068249.70 | 3.81 | 898.60 | -1.84 | 73175.00 |
| 541704.60 | 4068248.80 | 3.86 | 898.70 | -1.88 | 73177.00 |
| 541706.90 | 4068248.10 | 3.56 | 898.80 | -1.98 | 73179.00 |
| 541709.30 | 4068247.90 | 3.98 | 898.70 | -1.89 | 73181.00 |
| 541711.80 | 4068247.90 | 4.20 | 898.70 | -1.93 | 73183.00 |
| 541714.10 | 4068247.70 | 4.02 | 898.80 | -1.95 | 73185.00 |
| 541716.60 | 4068247.90 | 3.52 | 898.70 | -2.00 | 73187.00 |
| 541719.00 | 4068247.80 | 3.11 | 898.60 | -1.97 | 73189.00 |
| 541721.40 | 4068247.60 | 2.80 | 898.60 | -2.03 | 73191.00 |
| 541723.80 | 4068247.70 | 3.21 | 898.40 | -1.86 | 73193.00 |
| 541726.10 | 4068247.70 | 2.58 | 898.00 | -2.01 | 73195.00 |
| 541728.50 | 4068247.60 | 2.21 | 898.10 | -1.98 | 73197.00 |
| 541731.10 | 4068247.00 | 2.27 | 898.10 | -1.75 | 73199.00 |
| 541733.50 | 4068247.40 | 2.13 | 898.20 | -2.09 | 73201.00 |
| 541736.00 | 4068247.30 | 2.25 | 898.20 | -1.83 | 73203.00 |
| 541738.30 | 4068247.90 | 1.50 | 898.30 | -1.90 | 73205.00 |
| 541740.50 | 4068248.70 | 1.89 | 898.50 | -1.99 | 73207.00 |
| 541742.90 | 4068248.80 | 1.94 | 898.50 | -2.02 | 73209.00 |
| 541745.40 | 4068248.70 | 2.08 | 898.20 | -1.89 | 73211.00 |
| 541748.00 | 4068248.80 | 1.95 | 898.00 | -1.88 | 73213.00 |
| 541750.30 | 4068249.30 | 1.97 | 898.10 | -1.92 | 73215.00 |
| 541752.40 | 4068249.50 | 2.00 | 898.30 | -1.83 | 73217.00 |
| 541754.30 | 4068250.00 | 1.99 | 898.20 | -1.77 | 73219.00 |
| 541756.20 | 4068250.00 | 1.92 | 898.00 | -2.02 | 73221.00 |
| 541758.10 | 4068250.60 | 2.41 | 897.80 | -1.91 | 73223.00 |
| 541760.30 | 4068250.90 | 2.23 | 897.70 | -1.68 | 73225.00 |
| 541762.40 | 4068251.00 | 1.86 | 897.90 | -1.61 | 73227.00 |
| 541764.40 | 4068251.60 | 1.93 | 898.00 | -1.88 | 73229.00 |
| 541766.80 | 4068251.80 | 1.85 | 897.80 | -1.95 | 73231.00 |
| 541769.20 | 4068252.10 | 2.11 | 897.60 | -1.83 | 73233.00 |
| 541771.60 | 4068252.10 | 1.51 | 897.80 | -1.71 | 73235.00 |
| 541773.40 | 4068252.40 | 1.88 | 898.20 | -1.79 | 73237.00 |
| 541775.70 | 4068252.80 | 1.74 | 898.10 | -1.89 | 73239.00 |
| 541778.00 | 4068253.10 | 1.56 | 898.20 | -1.96 | 73241.00 |
| 541780.00 | 4068252.30 | 1.68 | 898.20 | -1.94 | 73243.00 |
| 541782.10 | 4068251.40 | 1.89 | 898.10 | -1.87 | 73245.00 |
| 541783.70 | 4068249.20 | 1.58 | 898.00 | -1.87 | 73644.00 |
| 541784.20 | 4068249.20 | 1.34 | 897.90 | -1.67 | 73646.00 |
| 541785.30 | 4068248.70 | 1.61 | 898.00 | -1.97 | 73648.00 |
| 541786.60 | 4068247.80 | 1.57 | 897.90 | -1.97 | 73650.00 |
| 541788.10 | 4068246.20 | 1.28 | 897.90 | -1.98 | 73652.00 |
| 541789.50 | 4068244.20 | 1.49 | 897.90 | -1.98 | 73654.00 |
| 541791.10 | 4068242.70 | 1.28 | 897.80 | -1.92 | 73656.00 |
| 541792.90 | 4068241.60 | 1.20 | 897.80 | -1.96 | 73658.00 |
| 541794.60 | 4068240.90 | 1.23 | 897.80 | -2.06 | 73660.00 |
| 541796.10 | 4068240.30 | 1.17 | 897.70 | -2.00 | 73662.00 |
| 541797.20 | 4068239.80 | 1.60 | 897.40 | -1.65 | 73664.00 |
| 541797.90 | 4068238.40 | 2.09 | 896.90 | -1.42 | 73666.00 |
| 541799.50 | 4068237.30 | 2.14 | 896.60 | -1.97 | 73668.00 |
| 541800.80 | 4068236.00 | 1.74 | 896.90 | -2.01 | 73670.00 |
| 541801.40 | 4068235.00 | 2.09 | 897.10 | -2.04 | 73672.00 |
| 541802.90 | 4068234.30 | 2.02 | 897.10 | -1.98 | 73674.00 |
| 541804.00 | 4068232.90 | 2.25 | 897.40 | -2.22 | 73676.00 |
| 541805.10 | 4068232.50 | 2.45 | 897.60 | -2.15 | 73678.00 |
| 541806.30 | 4068232.40 | 2.22 | 898.00 | -2.16 | 73680.00 |
| 541807.50 | 4068233.10 | 2.29 | 898.30 | -2.23 | 73682.00 |

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| 541809.00 | 4068233.50 | 3.24 | 898.50 | -2.32 | 73684.00 |
| 541810.60 | 4068234.00 | 3.81 | 898.60 | -2.59 | 73686.00 |
| 541811.90 | 4068234.40 | 4.21 | 898.80 | -2.63 | 73688.00 |
| 541813.90 | 4068234.50 | 4.76 | 898.80 | -2.72 | 73690.00 |
| 541815.40 | 4068234.50 | 5.54 | 898.80 | -2.73 | 73692.00 |
| 541817.00 | 4068234.80 | 6.94 | 898.90 | -2.89 | 73694.00 |
| 541818.90 | 4068235.40 | 6.17 | 899.00 | -2.55 | 73696.00 |
| 541821.00 | 4068235.50 | 5.87 | 899.10 | -2.79 | 73698.00 |
| 541822.50 | 4068236.20 | 5.61 | 899.20 | -2.79 | 73700.00 |
| 541824.20 | 4068236.50 | 6.57 | 899.30 | -3.10 | 73702.00 |
| 541826.00 | 4068236.60 | 7.85 | 899.30 | -3.00 | 73704.00 |
| 541828.00 | 4068237.30 | 7.82 | 899.50 | -2.84 | 73706.00 |
| 541829.80 | 4068237.90 | 7.25 | 899.60 | -2.92 | 73708.00 |
| 541831.40 | 4068237.80 | 6.02 | 899.80 | -2.98 | 73710.00 |
| 541833.10 | 4068237.70 | 6.04 | 899.90 | -2.86 | 73712.00 |
| 541834.80 | 4068237.90 | 6.94 | 899.90 | -2.86 | 73714.00 |
| 541836.30 | 4068238.80 | 5.78 | 900.00 | -3.31 | 73716.00 |
| 541838.00 | 4068239.50 | 7.57 | 900.10 | -3.39 | 73718.00 |
| 541839.90 | 4068240.20 | 6.25 | 900.20 | -3.02 | 73720.00 |
| 541841.40 | 4068241.50 | 5.92 | 900.30 | -3.00 | 73722.00 |
| 541842.10 | 4068243.20 | 5.12 | 900.40 | -2.92 | 73724.00 |
| 541843.10 | 4068244.70 | 5.00 | 900.50 | -3.09 | 73726.00 |
| 541844.20 | 4068246.30 | 5.29 | 900.60 | -3.06 | 73728.00 |
| 541845.60 | 4068247.90 | 5.58 | 900.60 | -2.99 | 73730.00 |
| 541847.00 | 4068249.20 | 5.79 | 900.70 | -3.16 | 73732.00 |
| 541847.90 | 4068250.80 | 6.26 | 900.80 | -2.98 | 73734.00 |
| 541848.70 | 4068252.30 | 4.95 | 900.90 | -3.34 | 73736.00 |
| 541849.90 | 4068253.80 | 5.12 | 900.90 | -3.11 | 73738.00 |
| 541851.40 | 4068255.20 | 6.87 | 901.00 | -2.69 | 73740.00 |
| 541853.30 | 4068255.70 | 6.70 | 901.10 | -3.09 | 73742.00 |
| 541855.60 | 4068255.60 | 5.76 | 901.20 | -3.36 | 73744.00 |
| 541858.10 | 4068255.30 | 6.70 | 901.20 | -2.85 | 73746.00 |
| 541860.20 | 4068255.30 | 5.93 | 901.40 | -2.84 | 73748.00 |
| 541862.40 | 4068254.80 | 7.04 | 901.40 | -2.16 | 73750.00 |
| 541864.40 | 4068253.70 | 7.33 | 901.40 | -1.93 | 73752.00 |
| 541866.40 | 4068252.50 | 6.80 | 901.40 | -1.91 | 73754.00 |
| 541868.70 | 4068252.00 | 6.99 | 901.50 | -2.04 | 73756.00 |
| 541870.80 | 4068252.00 | 6.41 | 901.60 | -2.93 | 73758.00 |
| 541872.70 | 4068252.50 | 7.68 | 901.70 | -3.69 | 73760.00 |
| 541874.80 | 4068252.50 | 7.27 | 901.70 | -2.94 | 73762.00 |
| 541876.90 | 4068252.50 | 8.48 | 901.80 | -2.91 | 73764.00 |
| 541879.40 | 4068252.20 | 7.85 | 901.90 | -2.67 | 73766.00 |
| 541881.60 | 4068251.80 | 8.10 | 902.00 | -2.67 | 73768.00 |
| 541883.70 | 4068251.10 | 8.38 | 902.10 | -2.48 | 73770.00 |
| 541885.80 | 4068250.60 | 8.14 | 902.10 | -2.33 | 73772.00 |
| 541887.50 | 4068250.30 | 9.27 | 902.20 | -2.84 | 73774.00 |
| 541889.50 | 4068249.70 | 8.97 | 902.20 | -2.65 | 73776.00 |
| 541891.40 | 4068249.30 | 9.08 | 902.30 | -2.58 | 73778.00 |
| 541893.30 | 4068249.20 | 9.20 | 902.40 | -2.45 | 73780.00 |
| 541894.90 | 4068250.90 | 9.43 | 902.50 | -2.66 | 73782.00 |
| 541896.90 | 4068251.50 | 8.80 | 902.50 | -2.26 | 73784.00 |
| 541899.20 | 4068251.70 | 9.14 | 902.60 | -2.12 | 73786.00 |
| 541901.40 | 4068251.80 | 8.64 | 902.60 | -2.07 | 73788.00 |
| 541903.60 | 4068251.70 | 8.33 | 902.70 | -2.59 | 73790.00 |
| 541905.70 | 4068251.70 | 8.66 | 902.70 | -2.74 | 73792.00 |
| 541907.40 | 4068252.90 | 8.75 | 902.90 | -2.61 | 73794.00 |
| 541909.30 | 4068253.60 | 8.54 | 902.80 | -1.97 | 73796.00 |

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| 541911.50 | 4068254.40 | 8.05 | 903.00 | -1.99 | 73798.00 |
| 541913.50 | 4068255.00 | 8.00 | 903.00 | -2.61 | 73800.00 |
| 541915.70 | 4068255.10 | 9.55 | 903.10 | -2.24 | 73802.00 |
| 541917.60 | 4068255.60 | 9.13 | 903.20 | -2.32 | 73804.00 |
| 541919.80 | 4068256.10 | 9.04 | 903.30 | -2.25 | 73806.00 |
| 541921.90 | 4068255.80 | 9.00 | 903.30 | -2.36 | 73808.00 |
| 541924.10 | 4068255.70 | 8.84 | 903.40 | -2.52 | 73810.00 |
| 541926.40 | 4068255.20 | 9.67 | 903.50 | -2.41 | 73812.00 |
| 541928.80 | 4068254.70 | 9.85 | 903.50 | -2.52 | 73814.00 |
| 541931.00 | 4068254.50 | 9.59 | 903.60 | -2.46 | 73816.00 |
| 541933.00 | 4068255.00 | 9.10 | 903.60 | -2.43 | 73818.00 |
| 541935.10 | 4068254.90 | 8.86 | 903.80 | -2.51 | 73820.00 |
| 541937.30 | 4068254.40 | 9.00 | 903.80 | -2.52 | 73822.00 |
| 541939.50 | 4068253.50 | 8.67 | 903.80 | -2.98 | 73824.00 |
| 541941.80 | 4068253.10 | 9.41 | 903.90 | -3.10 | 73826.00 |
| 541943.80 | 4068253.50 | 8.31 | 904.00 | -2.85 | 73828.00 |
| 541945.80 | 4068253.60 | 8.76 | 904.00 | -2.84 | 73830.00 |
| 541947.80 | 4068254.30 | 8.79 | 904.10 | -3.20 | 73832.00 |
| 541949.90 | 4068254.80 | 8.06 | 904.20 | -3.33 | 73834.00 |
| 541952.20 | 4068254.70 | 8.32 | 904.20 | -3.29 | 73836.00 |
| 541954.40 | 4068254.30 | 8.66 | 904.30 | -3.32 | 73838.00 |
| 541956.70 | 4068254.10 | 8.75 | 904.40 | -3.13 | 73840.00 |
| 541958.80 | 4068253.70 | 9.38 | 904.40 | -3.29 | 73842.00 |
| 541961.10 | 4068253.60 | 9.39 | 904.50 | -2.39 | 73844.00 |
| 541963.40 | 4068253.40 | 9.60 | 904.50 | -1.71 | 73846.00 |
| 541965.50 | 4068253.10 | 10.59 | 904.60 | -1.60 | 73848.00 |
| 541967.50 | 4068253.10 | 11.06 | 904.70 | -1.61 | 73850.00 |
| 541969.80 | 4068253.50 | 9.80 | 904.80 | -3.16 | 73852.00 |
| 541971.80 | 4068252.80 | 9.42 | 904.90 | -3.59 | 73854.00 |
| 541973.60 | 4068251.20 | 10.74 | 905.00 | -2.93 | 73856.00 |
| 541975.60 | 4068250.60 | 8.54 | 905.00 | -2.92 | 73858.00 |
| 541977.70 | 4068251.10 | 8.89 | 905.10 | -3.11 | 73860.00 |
| 541979.90 | 4068251.10 | 8.04 | 905.20 | -2.92 | 73862.00 |
| 541982.20 | 4068250.30 | 7.67 | 905.20 | -2.68 | 73864.00 |
| 541984.50 | 4068250.00 | 7.15 | 905.40 | -3.32 | 73866.00 |
| 541986.70 | 4068250.00 | 6.00 | 905.40 | -1.98 | 73868.00 |
| 541988.80 | 4068249.80 | 6.43 | 905.50 | -1.66 | 73870.00 |
| 541990.90 | 4068250.40 | 7.81 | 905.60 | -1.48 | 73872.00 |
| 541992.90 | 4068251.40 | 6.62 | 905.70 | -1.10 | 73874.00 |
| 541994.90 | 4068252.40 | 5.06 | 905.80 | -2.39 | 73876.00 |
| 541997.10 | 4068252.10 | 7.20 | 905.90 | -3.07 | 73878.00 |
| 541999.20 | 4068251.30 | 6.06 | 905.90 | -2.25 | 73880.00 |
| 542001.40 | 4068250.40 | 6.21 | 906.00 | -1.93 | 73882.00 |
| 542003.60 | 4068249.50 | 5.63 | 905.90 | -1.78 | 73884.00 |
| 542005.80 | 4068249.50 | 5.58 | 906.00 | -1.51 | 73886.00 |
| 542007.90 | 4068249.00 | 6.32 | 906.00 | -0.95 | 73888.00 |
| 542010.30 | 4068248.80 | 5.22 | 906.00 | -1.59 | 73890.00 |
| 542012.40 | 4068248.40 | 5.38 | 906.10 | -1.94 | 73892.00 |
| 542014.60 | 4068247.50 | 4.92 | 906.10 | -1.87 | 73894.00 |
| 542017.00 | 4068247.40 | 5.37 | 906.20 | -1.87 | 73896.00 |
| 542019.30 | 4068247.80 | 4.29 | 906.20 | -1.25 | 73898.00 |
| 542021.50 | 4068248.10 | 4.71 | 906.30 | -1.35 | 73900.00 |
| 542023.90 | 4068248.30 | 4.96 | 906.40 | -1.71 | 73902.00 |
| 542026.10 | 4068248.60 | 4.40 | 906.40 | -1.85 | 73904.00 |
| 542028.20 | 4068248.40 | 4.64 | 906.40 | -1.29 | 73906.00 |
| 542030.10 | 4068249.30 | 3.82 | 906.50 | -1.37 | 73908.00 |
| 542032.10 | 4068250.20 | 4.85 | 906.50 | -1.37 | 73910.00 |

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| 542034.50 | 4068250.60 | 4.33 | 906.60 | -1.41 | 73912.00 |
| 542036.70 | 4068250.90 | 5.55 | 906.60 | -1.51 | 73914.00 |
| 542039.00 | 4068251.00 | 5.67 | 906.70 | -1.28 | 73916.00 |
| 542041.40 | 4068251.10 | 6.09 | 906.80 | -1.59 | 73918.00 |
| 542043.70 | 4068251.10 | 6.82 | 906.70 | -1.47 | 73920.00 |
| 542046.10 | 4068251.20 | 6.64 | 906.80 | -1.58 | 73922.00 |
| 542048.40 | 4068251.00 | 7.10 | 906.80 | -1.64 | 73924.00 |
| 542050.70 | 4068251.20 | 8.71 | 906.70 | -2.43 | 73926.00 |
| 542053.10 | 4068251.20 | 9.70 | 906.80 | -3.08 | 73928.00 |
| 542055.00 | 4068251.80 | 10.36 | 906.80 | -2.28 | 73930.00 |
| 542055.70 | 4068252.20 | 10.35 | 906.90 | -1.58 | 73931.00 |
| 542057.00 | 4068250.90 | 10.82 | 906.80 | -1.99 | 73964.00 |
| 542056.90 | 4068251.00 | 10.51 | 906.80 | -1.89 | 73965.00 |
| 542056.90 | 4068252.10 | 9.66 | 906.80 | -1.91 | 73967.00 |
| 542057.10 | 4068254.00 | 9.15 | 906.90 | -1.05 | 73969.00 |
| 542057.20 | 4068256.40 | 9.36 | 907.00 | -0.88 | 73971.00 |
| 542057.00 | 4068258.70 | 8.50 | 907.10 | -1.27 | 73973.00 |
| 542056.50 | 4068260.90 | 8.17 | 907.10 | -1.03 | 73975.00 |
| 542056.40 | 4068263.10 | 5.98 | 907.10 | -2.20 | 73977.00 |
| 542056.30 | 4068265.40 | 6.97 | 907.20 | -3.38 | 73979.00 |
| 542056.50 | 4068267.70 | 7.53 | 907.30 | -2.30 | 73981.00 |
| 542057.00 | 4068270.10 | 7.27 | 907.40 | -1.64 | 73983.00 |
| 542057.20 | 4068272.30 | 7.27 | 907.50 | -1.74 | 73985.00 |
| 542056.90 | 4068274.60 | 6.58 | 907.60 | -2.66 | 73987.00 |
| 542056.70 | 4068277.00 | 6.26 | 907.70 | -2.25 | 73989.00 |
| 542056.40 | 4068279.20 | 7.11 | 907.80 | -1.62 | 73991.00 |
| 542056.00 | 4068281.40 | 5.47 | 907.90 | -1.86 | 73993.00 |
| 542055.60 | 4068283.50 | 6.52 | 908.00 | -1.62 | 73995.00 |
| 542055.20 | 4068285.60 | 5.86 | 908.00 | -1.81 | 73997.00 |
| 542055.00 | 4068287.90 | 5.31 | 908.10 | -2.34 | 73999.00 |
| 542055.10 | 4068290.10 | 5.41 | 908.10 | -2.22 | 74001.00 |
| 542055.00 | 4068292.50 | 6.10 | 908.40 | -1.44 | 74003.00 |
| 542054.90 | 4068294.90 | 5.70 | 908.30 | -2.10 | 74005.00 |
| 542055.20 | 4068297.00 | 5.40 | 908.40 | -1.83 | 74007.00 |
| 542055.50 | 4068299.20 | 6.01 | 908.40 | -1.97 | 74009.00 |
| 542055.20 | 4068300.30 | 5.77 | 908.40 | -1.80 | 74010.00 |
| 542055.70 | 4068301.30 | 5.63 | 908.40 | -1.79 | 74029.00 |
| 542055.60 | 4068301.30 | 5.55 | 908.50 | -2.01 | 74030.00 |
| 542054.40 | 4068301.40 | 5.29 | 908.50 | -2.36 | 74032.00 |
| 542052.30 | 4068301.90 | 5.64 | 908.40 | -2.10 | 74034.00 |
| 542050.00 | 4068302.50 | 5.39 | 908.30 | -1.62 | 74036.00 |
| 542047.70 | 4068302.60 | 5.88 | 908.20 | -1.72 | 74038.00 |
| 542045.50 | 4068302.60 | 6.30 | 908.10 | -2.29 | 74040.00 |
| 542043.20 | 4068302.70 | 7.22 | 908.00 | -3.41 | 74042.00 |
| 542040.80 | 4068302.70 | 9.61 | 908.00 | -2.96 | 74044.00 |
| 542038.50 | 4068303.20 | 7.87 | 907.90 | -3.22 | 74046.00 |
| 542036.30 | 4068303.90 | 9.39 | 907.90 | -2.96 | 74048.00 |
| 542033.90 | 4068303.60 | 7.92 | 907.80 | -3.63 | 74050.00 |
| 542031.80 | 4068302.90 | 6.96 | 907.80 | -2.66 | 74052.00 |
| 542029.50 | 4068302.70 | 6.18 | 907.60 | -2.12 | 74054.00 |
| 542027.20 | 4068302.40 | 6.39 | 907.50 | -1.86 | 74056.00 |
| 542024.90 | 4068303.00 | 5.49 | 907.50 | -1.38 | 74058.00 |
| 542022.40 | 4068303.30 | 4.97 | 907.40 | -1.45 | 74060.00 |
| 542020.00 | 4068303.30 | 5.37 | 907.30 | -1.93 | 74062.00 |
| 542017.60 | 4068303.60 | 5.72 | 907.30 | -1.86 | 74064.00 |
| 542015.30 | 4068303.10 | 5.34 | 907.20 | -1.94 | 74066.00 |
| 542013.10 | 4068302.50 | 5.94 | 907.10 | -2.22 | 74068.00 |

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| 542010.90 | 4068301.70 | 7.01 | 907.10 | -1.92 | 74070.00 |
| 542008.60 | 4068301.60 | 6.70 | 907.00 | -2.07 | 74072.00 |
| 542006.20 | 4068301.70 | 5.00 | 906.90 | -2.44 | 74074.00 |
| 542003.80 | 4068301.90 | 7.02 | 906.80 | -2.37 | 74076.00 |
| 542001.50 | 4068302.30 | 8.86 | 906.80 | -0.93 | 74078.00 |
| 541999.00 | 4068302.80 | 7.32 | 906.70 | -2.32 | 74080.00 |
| 541996.60 | 4068303.00 | 5.95 | 906.70 | -3.09 | 74082.00 |
| 541994.20 | 4068303.60 | 7.24 | 906.60 | -2.89 | 74084.00 |
| 541991.80 | 4068303.80 | 8.06 | 906.50 | -2.39 | 74086.00 |
| 541989.40 | 4068303.70 | 6.27 | 906.50 | -2.28 | 74088.00 |
| 541987.00 | 4068303.90 | 5.64 | 906.50 | -2.45 | 74090.00 |
| 541984.60 | 4068304.20 | 6.10 | 906.40 | -1.84 | 74092.00 |
| 541982.20 | 4068304.50 | 5.38 | 906.40 | -1.71 | 74094.00 |
| 541979.60 | 4068304.90 | 4.17 | 906.30 | -2.43 | 74096.00 |
| 541977.20 | 4068305.00 | 5.24 | 906.30 | -2.22 | 74098.00 |
| 541975.10 | 4068305.50 | 4.66 | 906.20 | -2.65 | 74100.00 |
| 541972.90 | 4068305.90 | 5.42 | 906.30 | -2.65 | 74102.00 |
| 541970.60 | 4068305.80 | 5.63 | 906.10 | -2.63 | 74104.00 |
| 541968.50 | 4068306.00 | 6.07 | 906.10 | -2.44 | 74106.00 |
| 541966.30 | 4068306.30 | 5.17 | 906.10 | -2.43 | 74108.00 |
| 541964.10 | 4068306.20 | 4.79 | 905.90 | -2.63 | 74110.00 |
| 541961.80 | 4068306.00 | 6.05 | 905.90 | -2.61 | 74112.00 |
| 541959.50 | 4068305.80 | 5.76 | 905.80 | -1.98 | 74114.00 |
| 541957.30 | 4068305.40 | 6.26 | 905.80 | -2.01 | 74116.00 |
| 541955.20 | 4068305.30 | 4.87 | 905.60 | -2.05 | 74118.00 |
| 541953.20 | 4068305.10 | 5.33 | 905.50 | -1.93 | 74120.00 |
| 541950.90 | 4068305.30 | 6.63 | 905.40 | -1.48 | 74122.00 |
| 541948.60 | 4068305.60 | 5.66 | 905.30 | -1.99 | 74124.00 |
| 541946.40 | 4068305.70 | 5.38 | 905.20 | -2.22 | 74126.00 |
| 541944.10 | 4068305.20 | 5.63 | 905.20 | -1.92 | 74128.00 |
| 541941.80 | 4068304.70 | 5.53 | 905.00 | -1.95 | 74130.00 |
| 541939.60 | 4068304.00 | 5.66 | 904.90 | -1.78 | 74132.00 |
| 541937.40 | 4068303.50 | 5.70 | 904.80 | -1.54 | 74134.00 |
| 541935.10 | 4068303.40 | 5.79 | 904.70 | -1.35 | 74136.00 |
| 541932.70 | 4068303.20 | 5.89 | 904.60 | -1.65 | 74138.00 |
| 541930.40 | 4068302.50 | 5.11 | 904.50 | -1.68 | 74140.00 |
| 541928.10 | 4068302.10 | 4.14 | 904.40 | -1.39 | 74142.00 |
| 541925.80 | 4068301.70 | 3.83 | 904.30 | -1.56 | 74144.00 |
| 541923.70 | 4068301.10 | 3.98 | 904.20 | -1.44 | 74146.00 |
| 541921.40 | 4068301.00 | 3.77 | 904.10 | -1.50 | 74148.00 |
| 541919.10 | 4068301.00 | 4.02 | 904.00 | -1.79 | 74150.00 |
| 541916.90 | 4068300.70 | 4.29 | 904.00 | -1.61 | 74152.00 |
| 541914.80 | 4068300.60 | 4.33 | 903.80 | -1.82 | 74154.00 |
| 541912.50 | 4068300.30 | 4.41 | 903.70 | -1.62 | 74156.00 |
| 541910.20 | 4068300.00 | 4.09 | 903.60 | -2.02 | 74158.00 |
| 541908.00 | 4068300.00 | 4.38 | 903.50 | -2.15 | 74160.00 |
| 541905.70 | 4068300.40 | 4.18 | 903.40 | -2.25 | 74162.00 |
| 541903.30 | 4068300.60 | 4.96 | 903.40 | -2.40 | 74164.00 |
| 541901.30 | 4068301.20 | 5.11 | 903.20 | -1.99 | 74166.00 |
| 541899.00 | 4068301.10 | 5.42 | 903.20 | -2.24 | 74168.00 |
| 541896.60 | 4068300.80 | 5.11 | 903.10 | -2.32 | 74170.00 |
| 541894.30 | 4068300.30 | 5.04 | 903.00 | -2.16 | 74172.00 |
| 541891.90 | 4068300.00 | 6.41 | 902.90 | -3.07 | 74174.00 |
| 541889.50 | 4068300.30 | 6.29 | 902.80 | -3.34 | 74176.00 |
| 541887.20 | 4068300.70 | 5.45 | 902.90 | -3.37 | 74178.00 |
| 541885.00 | 4068301.40 | 6.73 | 902.90 | -3.44 | 74180.00 |
| 541882.90 | 4068302.20 | 6.46 | 902.90 | -3.24 | 74182.00 |

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| 541880.80 | 4068303.10 | 5.91 | 902.80 | -3.64 | 74184.00 |
| 541878.70 | 4068303.90 | 5.59 | 902.80 | -3.56 | 74186.00 |
| 541876.60 | 4068304.50 | 4.53 | 902.70 | -3.58 | 74188.00 |
| 541874.70 | 4068305.60 | 3.90 | 902.60 | -3.60 | 74190.00 |
| 541873.00 | 4068306.80 | 3.89 | 902.50 | -4.03 | 74192.00 |
| 541870.80 | 4068307.70 | 4.94 | 902.30 | -3.73 | 74194.00 |
| 541868.90 | 4068308.90 | 5.52 | 902.20 | -3.69 | 74196.00 |
| 541867.00 | 4068310.10 | 5.68 | 902.50 | -3.74 | 74198.00 |
| 541865.10 | 4068311.20 | 5.33 | 902.50 | -2.97 | 74200.00 |
| 541863.10 | 4068312.30 | 5.20 | 902.60 | -3.09 | 74202.00 |
| 541861.30 | 4068313.20 | 4.41 | 902.60 | -3.49 | 74204.00 |
| 541858.80 | 4068313.00 | 4.66 | 902.60 | -3.38 | 74206.00 |
| 541856.60 | 4068312.30 | 5.06 | 902.60 | -3.37 | 74208.00 |
| 541854.60 | 4068311.70 | 5.49 | 902.60 | -3.27 | 74210.00 |
| 541852.40 | 4068311.30 | 5.41 | 902.50 | -3.17 | 74212.00 |
| 541850.30 | 4068311.10 | 4.88 | 902.50 | -3.04 | 74214.00 |
| 541847.90 | 4068311.10 | 4.76 | 902.50 | -3.22 | 74216.00 |
| 541845.60 | 4068311.40 | 4.76 | 902.40 | -3.13 | 74218.00 |
| 541843.30 | 4068311.40 | 4.21 | 902.30 | -3.01 | 74220.00 |
| 541841.30 | 4068311.10 | 3.78 | 902.30 | -3.21 | 74222.00 |
| 541839.30 | 4068311.10 | 3.94 | 902.20 | -3.02 | 74224.00 |
| 541837.70 | 4068311.20 | 3.81 | 902.20 | -2.88 | 74226.00 |
| 541836.10 | 4068311.00 | 4.04 | 902.10 | -2.90 | 74228.00 |
| 541834.70 | 4068310.20 | 3.84 | 901.90 | -2.84 | 74230.00 |
| 541833.10 | 4068310.20 | 4.17 | 901.90 | -2.60 | 74232.00 |
| 541831.30 | 4068310.30 | 4.10 | 901.70 | -2.76 | 74234.00 |
| 541829.60 | 4068310.00 | 3.60 | 901.60 | -2.65 | 74236.00 |
| 541827.80 | 4068309.70 | 4.38 | 901.40 | -2.37 | 74238.00 |
| 541825.80 | 4068310.50 | 5.38 | 901.30 | -2.29 | 74240.00 |
| 541823.80 | 4068310.00 | 3.99 | 901.10 | -2.26 | 74242.00 |
| 541821.70 | 4068309.90 | 4.49 | 901.00 | -2.19 | 74244.00 |
| 541819.60 | 4068309.50 | 4.02 | 900.80 | -2.12 | 74246.00 |
| 541817.90 | 4068309.10 | 3.06 | 900.60 | -2.29 | 74248.00 |
| 541816.00 | 4068309.70 | 3.27 | 900.40 | -2.19 | 74250.00 |
| 541814.90 | 4068310.10 | 2.88 | 900.20 | -2.13 | 74252.00 |
| 541813.60 | 4068311.00 | 3.12 | 899.90 | -1.95 | 74254.00 |
| 541811.80 | 4068311.00 | 3.26 | 899.40 | -1.84 | 74256.00 |
| 541810.00 | 4068310.90 | 2.74 | 899.40 | -2.22 | 74258.00 |
| 541808.10 | 4068310.70 | 1.97 | 899.10 | -2.47 | 74260.00 |
| 541806.60 | 4068311.20 | 1.83 | 899.30 | -2.13 | 74262.00 |
| 541805.70 | 4068312.10 | 2.08 | 899.30 | -2.03 | 74264.00 |
| 541805.70 | 4068313.00 | 2.29 | 899.20 | -2.57 | 74283.00 |
| 541804.60 | 4068312.60 | 2.60 | 899.10 | -2.05 | 74285.00 |
| 541803.50 | 4068311.00 | 2.23 | 899.10 | -1.84 | 74287.00 |
| 541802.40 | 4068309.40 | 2.27 | 899.00 | -1.83 | 74289.00 |
| 541801.30 | 4068307.60 | 1.81 | 898.80 | -2.15 | 74291.00 |
| 541800.40 | 4068305.40 | 2.56 | 898.70 | -1.92 | 74293.00 |
| 541800.00 | 4068303.30 | 2.24 | 898.70 | -2.14 | 74295.00 |
| 541799.60 | 4068301.10 | 2.39 | 898.60 | -1.96 | 74297.00 |
| 541799.50 | 4068299.10 | 2.07 | 898.50 | -2.13 | 74299.00 |
| 541799.00 | 4068297.20 | 2.03 | 898.40 | -1.84 | 74301.00 |
| 541796.90 | 4068296.40 | 4.20 | 898.30 | -2.42 | 74303.00 |
| 541794.40 | 4068296.70 | 2.43 | 898.30 | -1.80 | 74305.00 |
| 541792.50 | 4068296.60 | 2.87 | 898.60 | -2.20 | 74307.00 |
| 541790.80 | 4068296.00 | 2.41 | 899.00 | -1.98 | 74309.00 |
| 541789.50 | 4068296.40 | 2.83 | 899.40 | -2.32 | 74311.00 |
| 541788.20 | 4068296.60 | 2.72 | 899.70 | -2.24 | 74313.00 |

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| 541786.80 | 4068297.20 | 2.58 | 899.80 | -1.86 | 74315.00 |
| 541784.90 | 4068296.40 | 3.32 | 899.90 | -2.02 | 74317.00 |
| 541782.90 | 4068295.80 | 2.94 | 900.00 | -2.25 | 74319.00 |
| 541781.00 | 4068295.60 | 2.77 | 900.00 | -2.31 | 74321.00 |
| 541778.70 | 4068294.90 | 4.02 | 900.00 | -2.15 | 74323.00 |
| 541776.40 | 4068295.00 | 3.56 | 899.90 | -2.14 | 74325.00 |
| 541774.20 | 4068295.50 | 2.55 | 899.90 | -2.16 | 74327.00 |
| 541772.20 | 4068296.30 | 2.61 | 899.70 | -2.08 | 74329.00 |
| 541770.50 | 4068297.00 | 3.80 | 899.30 | -2.21 | 74331.00 |
| 541768.70 | 4068297.90 | 3.30 | 898.90 | -1.99 | 74333.00 |
| 541766.30 | 4068298.60 | 2.29 | 899.00 | -2.23 | 74335.00 |
| 541764.10 | 4068299.40 | 2.50 | 898.90 | -2.32 | 74337.00 |
| 541761.70 | 4068300.30 | 2.55 | 899.00 | -1.94 | 74339.00 |
| 541759.60 | 4068300.60 | 2.01 | 899.20 | -2.15 | 74341.00 |
| 541757.60 | 4068300.50 | 1.95 | 899.20 | -2.13 | 74343.00 |
| 541755.60 | 4068300.20 | 2.01 | 899.20 | -2.26 | 74345.00 |
| 541753.50 | 4068300.80 | 2.40 | 899.00 | -1.91 | 74347.00 |
| 541751.20 | 4068300.60 | 2.48 | 899.10 | -2.27 | 74349.00 |
| 541749.10 | 4068300.50 | 2.24 | 899.20 | -2.16 | 74351.00 |
| 541746.90 | 4068300.10 | 3.08 | 899.10 | -2.14 | 74353.00 |
| 541744.70 | 4068300.10 | 2.68 | 899.20 | -2.05 | 74355.00 |
| 541742.40 | 4068300.30 | 2.36 | 899.10 | -2.07 | 74357.00 |
| 541740.20 | 4068300.70 | 2.46 | 899.20 | -2.09 | 74359.00 |
| 541737.80 | 4068301.20 | 2.32 | 899.20 | -2.12 | 74361.00 |
| 541735.50 | 4068301.50 | 3.08 | 899.00 | -2.04 | 74363.00 |
| 541733.70 | 4068301.50 | 3.68 | 899.30 | -2.10 | 74365.00 |
| 541731.70 | 4068300.90 | 3.01 | 899.40 | -1.89 | 74367.00 |
| 541729.70 | 4068300.60 | 3.02 | 899.80 | -2.02 | 74369.00 |
| 541727.70 | 4068300.50 | 2.99 | 900.00 | -1.79 | 74371.00 |
| 541725.30 | 4068300.60 | 3.51 | 900.00 | -1.94 | 74373.00 |
| 541722.90 | 4068300.30 | 4.16 | 900.00 | -1.99 | 74375.00 |
| 541720.40 | 4068300.10 | 3.89 | 900.00 | -1.97 | 74377.00 |
| 541718.00 | 4068300.00 | 3.54 | 900.00 | -2.07 | 74379.00 |
| 541715.50 | 4068300.10 | 3.25 | 899.90 | -2.15 | 74381.00 |
| 541713.30 | 4068300.50 | 2.54 | 899.80 | -2.21 | 74383.00 |
| 541711.00 | 4068300.40 | 2.87 | 899.50 | -1.99 | 74385.00 |
| 541708.40 | 4068300.10 | 2.76 | 899.40 | -2.24 | 74387.00 |
| 541706.00 | 4068300.40 | 1.55 | 899.40 | -2.28 | 74389.00 |
| 541703.40 | 4068299.80 | 2.38 | 899.50 | -1.99 | 74391.00 |
| 541700.80 | 4068299.60 | 2.04 | 899.30 | -2.21 | 74393.00 |
| 541698.20 | 4068299.70 | 1.96 | 899.40 | -2.14 | 74395.00 |
| 541695.80 | 4068299.90 | 1.73 | 899.50 | -2.23 | 74397.00 |
| 541693.30 | 4068300.50 | 1.92 | 899.40 | -2.06 | 74399.00 |
| 541691.00 | 4068300.90 | 1.99 | 899.50 | -2.27 | 74401.00 |
| 541689.00 | 4068301.80 | 2.37 | 899.20 | -1.86 | 74403.00 |
| 541686.90 | 4068302.70 | 2.01 | 899.40 | -2.16 | 74405.00 |
| 541684.90 | 4068303.30 | 1.57 | 899.40 | -2.00 | 74407.00 |
| 541682.40 | 4068303.60 | 1.91 | 899.40 | -1.90 | 74409.00 |
| 541680.40 | 4068303.40 | 2.74 | 899.50 | -2.06 | 74411.00 |
| 541678.00 | 4068303.40 | 1.94 | 899.20 | -2.01 | 74413.00 |
| 541675.50 | 4068304.00 | 2.07 | 899.40 | -2.32 | 74415.00 |
| 541673.40 | 4068304.60 | 2.40 | 899.50 | -2.26 | 74417.00 |
| 541671.10 | 4068305.20 | 2.78 | 899.60 | -1.79 | 74419.00 |
| 541668.60 | 4068305.10 | 2.09 | 899.50 | -2.06 | 74421.00 |
| 541666.30 | 4068306.10 | 2.40 | 899.50 | -2.15 | 74423.00 |
| 541663.90 | 4068306.30 | 1.98 | 899.50 | -2.08 | 74425.00 |
| 541661.40 | 4068306.10 | 2.52 | 899.40 | -2.22 | 74427.00 |

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| 541659.00 | 4068305.90 | 2.75 | 899.40 | -2.37 | 74429.00 |
| 541656.80 | 4068305.80 | 2.79 | 899.50 | -2.38 | 74431.00 |
| 541654.30 | 4068305.70 | 2.50 | 899.60 | -2.08 | 74433.00 |
| 541652.30 | 4068304.60 | 2.80 | 899.50 | -2.31 | 74435.00 |
| 541649.90 | 4068303.90 | 3.23 | 899.60 | -2.40 | 74437.00 |
| 541647.60 | 4068303.60 | 2.36 | 899.60 | -2.20 | 74439.00 |
| 541645.10 | 4068303.40 | 1.95 | 899.50 | -2.09 | 74441.00 |
| 541642.80 | 4068302.80 | 2.84 | 899.50 | -2.25 | 74443.00 |
| 541640.40 | 4068303.30 | 2.09 | 899.50 | -1.88 | 74445.00 |
| 541638.10 | 4068303.90 | 3.03 | 899.50 | -2.38 | 74447.00 |
| 541635.80 | 4068303.60 | 2.37 | 899.30 | -2.05 | 74449.00 |
| 541633.20 | 4068303.50 | 3.38 | 899.30 | -2.20 | 74451.00 |
| 541630.80 | 4068303.70 | 3.15 | 899.50 | -1.77 | 74453.00 |
| 541628.30 | 4068303.60 | 3.24 | 899.50 | -2.14 | 74455.00 |
| 541625.70 | 4068303.40 | 2.85 | 899.30 | -2.19 | 74457.00 |
| 541623.30 | 4068303.10 | 3.13 | 899.40 | -2.16 | 74459.00 |
| 541620.80 | 4068303.10 | 3.07 | 899.40 | -2.21 | 74461.00 |
| 541618.20 | 4068302.90 | 3.03 | 899.40 | -2.17 | 74463.00 |
| 541615.80 | 4068302.60 | 2.65 | 899.20 | -2.25 | 74465.00 |
| 541613.40 | 4068302.90 | 2.88 | 899.30 | -2.43 | 74467.00 |
| 541611.20 | 4068302.90 | 3.65 | 899.20 | -2.05 | 74469.00 |
| 541608.70 | 4068302.70 | 3.73 | 899.00 | -2.15 | 74471.00 |
| 541606.20 | 4068303.00 | 3.28 | 899.10 | -2.07 | 74473.00 |
| 541603.80 | 4068303.00 | 3.16 | 899.10 | -2.08 | 74475.00 |
| 541601.30 | 4068302.60 | 4.23 | 899.00 | -1.95 | 74477.00 |
| 541598.80 | 4068302.60 | 3.20 | 899.00 | -2.15 | 74479.00 |
| 541596.60 | 4068303.10 | 3.06 | 898.90 | -2.11 | 74481.00 |
| 541594.20 | 4068303.90 | 3.13 | 899.00 | -2.13 | 74483.00 |
| 541591.90 | 4068303.40 | 2.79 | 899.00 | -2.13 | 74485.00 |
| 541589.50 | 4068303.20 | 3.02 | 899.00 | -2.01 | 74487.00 |
| 541587.20 | 4068303.20 | 2.73 | 899.00 | -2.29 | 74489.00 |
| 541584.80 | 4068303.50 | 2.57 | 898.90 | -2.16 | 74491.00 |
| 541582.60 | 4068303.80 | 2.67 | 899.00 | -1.98 | 74493.00 |
| 541580.20 | 4068304.20 | 2.99 | 898.90 | -2.31 | 74495.00 |
| 541577.80 | 4068304.40 | 2.82 | 898.90 | -2.24 | 74497.00 |
| 541575.50 | 4068304.00 | 3.18 | 898.90 | -2.37 | 74499.00 |
| 541573.00 | 4068303.80 | 3.12 | 898.90 | -2.46 | 74501.00 |
| 541570.50 | 4068303.80 | 3.29 | 898.90 | -2.43 | 74503.00 |
| 541568.00 | 4068303.70 | 3.27 | 898.90 | -2.28 | 74505.00 |
| 541565.50 | 4068303.80 | 3.77 | 898.90 | -2.32 | 74507.00 |
| 541563.00 | 4068303.70 | 3.54 | 898.80 | -2.44 | 74509.00 |
| 541560.70 | 4068304.10 | 3.29 | 898.90 | -2.41 | 74511.00 |
| 541558.20 | 4068304.80 | 3.56 | 898.90 | -2.34 | 74513.00 |
| 541555.70 | 4068304.90 | 3.63 | 898.80 | -2.31 | 74515.00 |
| 541553.10 | 4068305.00 | 3.33 | 898.80 | -2.29 | 74517.00 |
| 541550.80 | 4068305.30 | 3.45 | 898.80 | -2.26 | 74519.00 |
| 541548.40 | 4068305.20 | 3.29 | 898.70 | -2.29 | 74521.00 |
| 541546.00 | 4068305.50 | 3.26 | 898.70 | -2.33 | 74523.00 |
| 541543.70 | 4068305.60 | 3.21 | 898.60 | -2.30 | 74525.00 |
| 541541.20 | 4068305.60 | 3.03 | 898.50 | -2.29 | 74527.00 |
| 541538.80 | 4068305.10 | 3.17 | 898.50 | -2.13 | 74529.00 |
| 541536.40 | 4068304.60 | 3.33 | 898.50 | -2.05 | 74531.00 |
| 541533.90 | 4068304.50 | 3.43 | 898.40 | -2.20 | 74533.00 |
| 541531.40 | 4068304.20 | 2.97 | 898.30 | -2.13 | 74535.00 |
| 541529.00 | 4068304.10 | 3.42 | 898.30 | -2.25 | 74537.00 |
| 541526.60 | 4068304.20 | 3.19 | 898.40 | -2.26 | 74539.00 |
| 541524.20 | 4068304.00 | 3.40 | 898.30 | -2.25 | 74541.00 |

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| 541521.90 | 4068303.50 | 3.51 | 898.30 | -2.26 | 74543.00 |
| 541519.60 | 4068303.40 | 3.42 | 898.40 | -2.12 | 74545.00 |
| 541517.30 | 4068303.10 | 3.44 | 898.40 | -2.14 | 74547.00 |
| 541515.00 | 4068303.10 | 3.23 | 898.30 | -2.25 | 74549.00 |
| 541512.70 | 4068303.20 | 4.01 | 898.20 | -2.27 | 74551.00 |
| 541510.10 | 4068303.00 | 3.97 | 898.00 | -2.04 | 74553.00 |
| 541507.80 | 4068303.10 | 3.15 | 898.00 | -2.26 | 74555.00 |
| 541505.70 | 4068303.20 | 3.27 | 898.00 | -1.98 | 74557.00 |
| 541503.40 | 4068302.80 | 3.80 | 897.80 | -2.00 | 74559.00 |
| 541501.30 | 4068302.10 | 3.41 | 897.90 | -2.20 | 74561.00 |
| 541500.30 | 4068302.00 | 3.48 | 897.80 | -2.36 | 74562.00 |
| 541497.40 | 4068301.60 | 3.39 | 897.80 | -2.48 | 74583.00 |
| 541497.80 | 4068302.50 | 2.75 | 897.80 | -2.65 | 74585.00 |
| 541498.10 | 4068304.50 | 4.03 | 897.70 | -2.12 | 74587.00 |
| 541497.30 | 4068306.70 | 3.18 | 897.70 | -2.38 | 74589.00 |
| 541496.90 | 4068309.00 | 3.17 | 897.80 | -2.21 | 74591.00 |
| 541496.50 | 4068311.50 | 3.51 | 897.90 | -2.25 | 74593.00 |
| 541496.90 | 4068313.90 | 3.80 | 898.00 | -2.15 | 74595.00 |
| 541496.70 | 4068316.40 | 3.49 | 898.20 | -2.08 | 74597.00 |
| 541496.10 | 4068318.70 | 3.68 | 898.10 | -2.19 | 74599.00 |
| 541496.00 | 4068321.10 | 3.57 | 898.30 | -2.27 | 74601.00 |
| 541495.40 | 4068323.30 | 3.44 | 898.30 | -2.15 | 74603.00 |
| 541494.90 | 4068325.60 | 3.32 | 898.50 | -2.19 | 74605.00 |
| 541494.80 | 4068328.00 | 3.04 | 898.50 | -2.16 | 74607.00 |
| 541494.60 | 4068330.20 | 3.24 | 898.60 | -2.32 | 74609.00 |
| 541494.20 | 4068332.60 | 3.65 | 898.70 | -2.48 | 74611.00 |
| 541494.00 | 4068334.80 | 3.48 | 898.80 | -2.27 | 74613.00 |
| 541493.60 | 4068337.20 | 3.60 | 898.70 | -2.32 | 74615.00 |
| 541493.50 | 4068339.50 | 3.64 | 898.80 | -2.35 | 74617.00 |
| 541492.90 | 4068341.80 | 3.53 | 898.90 | -2.39 | 74619.00 |
| 541492.80 | 4068344.10 | 3.35 | 898.90 | -2.33 | 74621.00 |
| 541492.70 | 4068346.30 | 3.48 | 899.00 | -2.20 | 74623.00 |
| 541492.70 | 4068348.50 | 4.06 | 899.00 | -2.00 | 74625.00 |
| 541492.70 | 4068350.40 | 4.00 | 899.10 | -2.12 | 74627.00 |
| 541492.40 | 4068352.00 | 3.93 | 899.10 | -2.02 | 74648.00 |
| 541492.70 | 4068352.10 | 4.03 | 899.10 | -1.87 | 74649.00 |
| 541494.20 | 4068351.90 | 4.17 | 899.10 | -1.84 | 74651.00 |
| 541496.20 | 4068351.50 | 6.19 | 899.10 | -2.17 | 74653.00 |
| 541498.60 | 4068351.00 | 4.28 | 898.90 | -2.07 | 74655.00 |
| 541501.20 | 4068350.80 | 3.74 | 899.00 | -2.23 | 74657.00 |
| 541503.60 | 4068350.70 | 3.61 | 899.00 | -2.17 | 74659.00 |
| 541505.90 | 4068350.80 | 3.10 | 899.00 | -2.20 | 74661.00 |
| 541508.40 | 4068350.50 | 3.07 | 899.00 | -2.19 | 74663.00 |
| 541510.50 | 4068350.20 | 3.16 | 899.10 | -2.31 | 74665.00 |
| 541512.90 | 4068349.80 | 3.12 | 899.10 | -2.25 | 74667.00 |
| 541515.20 | 4068349.90 | 3.72 | 899.20 | -2.15 | 74669.00 |
| 541517.30 | 4068350.50 | 3.84 | 899.30 | -2.05 | 74671.00 |
| 541519.50 | 4068350.50 | 3.78 | 899.30 | -2.20 | 74673.00 |
| 541521.90 | 4068350.50 | 3.92 | 899.30 | -2.17 | 74675.00 |
| 541524.30 | 4068350.50 | 3.39 | 899.40 | -2.19 | 74677.00 |
| 541526.60 | 4068350.40 | 3.43 | 899.50 | -2.18 | 74679.00 |
| 541529.00 | 4068350.50 | 3.63 | 899.60 | -2.23 | 74681.00 |
| 541531.60 | 4068350.60 | 3.42 | 899.60 | -2.25 | 74683.00 |
| 541534.00 | 4068350.40 | 3.43 | 899.70 | -2.21 | 74685.00 |
| 541536.50 | 4068350.50 | 3.50 | 899.60 | -2.15 | 74687.00 |
| 541539.10 | 4068350.60 | 3.68 | 899.50 | -2.15 | 74689.00 |
| 541541.50 | 4068350.60 | 3.21 | 899.60 | -2.17 | 74691.00 |

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| 541543.90 | 4068350.40 | 3.14 | 899.60 | -2.03 | 74693.00 |
| 541546.40 | 4068350.30 | 3.38 | 899.60 | -2.18 | 74695.00 |
| 541549.00 | 4068350.20 | 2.93 | 899.70 | -2.15 | 74697.00 |
| 541551.30 | 4068350.20 | 3.52 | 899.80 | -1.97 | 74699.00 |
| 541553.70 | 4068350.20 | 2.99 | 899.90 | -2.03 | 74701.00 |
| 541555.90 | 4068350.60 | 2.59 | 900.00 | -2.18 | 74703.00 |
| 541558.20 | 4068350.00 | 3.48 | 900.00 | -2.30 | 74705.00 |
| 541560.80 | 4068349.60 | 3.19 | 900.00 | -1.98 | 74707.00 |
| 541563.20 | 4068349.90 | 3.52 | 900.10 | -2.08 | 74709.00 |
| 541565.70 | 4068350.40 | 2.94 | 900.20 | -2.13 | 74711.00 |
| 541568.10 | 4068350.90 | 2.86 | 900.20 | -2.21 | 74713.00 |
| 541570.60 | 4068351.20 | 3.41 | 900.10 | -2.23 | 74715.00 |
| 541572.90 | 4068351.60 | 3.26 | 900.20 | -2.19 | 74717.00 |
| 541575.40 | 4068351.60 | 3.15 | 900.10 | -2.57 | 74719.00 |
| 541577.80 | 4068351.20 | 3.53 | 900.10 | -2.16 | 74721.00 |
| 541580.30 | 4068351.00 | 3.63 | 900.20 | -2.14 | 74723.00 |
| 541582.80 | 4068351.30 | 2.96 | 900.30 | -2.26 | 74725.00 |
| 541585.20 | 4068350.90 | 3.12 | 900.20 | -2.15 | 74727.00 |
| 541587.60 | 4068350.80 | 3.98 | 900.30 | -2.17 | 74729.00 |
| 541590.00 | 4068351.00 | 3.78 | 900.30 | -2.23 | 74731.00 |
| 541592.30 | 4068351.70 | 3.23 | 900.40 | -2.38 | 74733.00 |
| 541594.70 | 4068351.20 | 3.72 | 900.40 | -2.00 | 74735.00 |
| 541597.10 | 4068351.30 | 2.91 | 900.40 | -2.15 | 74737.00 |
| 541599.40 | 4068351.70 | 3.60 | 900.20 | -2.11 | 74739.00 |
| 541602.00 | 4068351.30 | 2.96 | 900.20 | -2.18 | 74741.00 |
| 541604.10 | 4068351.10 | 2.50 | 900.50 | -2.04 | 74743.00 |
| 541606.30 | 4068350.80 | 2.30 | 900.60 | -2.25 | 74745.00 |
| 541608.70 | 4068350.40 | 2.73 | 900.50 | -1.96 | 74747.00 |
| 541611.20 | 4068350.20 | 2.69 | 900.50 | -2.40 | 74749.00 |
| 541613.40 | 4068350.30 | 3.08 | 900.60 | -2.15 | 74751.00 |
| 541615.70 | 4068349.80 | 2.89 | 900.60 | -2.09 | 74753.00 |
| 541618.20 | 4068349.80 | 3.49 | 900.40 | -2.30 | 74755.00 |
| 541620.50 | 4068349.00 | 2.72 | 900.40 | -2.40 | 74757.00 |
| 541622.80 | 4068348.80 | 3.59 | 900.50 | -2.15 | 74759.00 |
| 541625.30 | 4068348.80 | 2.73 | 900.40 | -2.28 | 74761.00 |
| 541627.70 | 4068348.90 | 2.60 | 900.60 | -2.34 | 74763.00 |
| 541630.10 | 4068348.80 | 2.84 | 900.50 | -2.04 | 74765.00 |
| 541632.50 | 4068349.00 | 2.73 | 900.50 | -2.19 | 74767.00 |
| 541634.80 | 4068349.50 | 3.24 | 900.50 | -2.13 | 74769.00 |
| 541637.30 | 4068349.20 | 2.95 | 900.60 | -2.22 | 74771.00 |
| 541639.50 | 4068349.00 | 2.81 | 900.80 | -2.25 | 74773.00 |
| 541641.80 | 4068349.10 | 3.00 | 900.80 | -2.27 | 74775.00 |
| 541644.30 | 4068349.00 | 2.94 | 900.70 | -2.50 | 74777.00 |
| 541646.80 | 4068348.90 | 2.80 | 900.70 | -2.44 | 74779.00 |
| 541649.30 | 4068349.00 | 2.81 | 900.60 | -2.39 | 74781.00 |
| 541651.80 | 4068348.80 | 3.06 | 900.50 | -2.53 | 74783.00 |
| 541654.10 | 4068348.80 | 2.53 | 900.70 | -2.28 | 74785.00 |
| 541656.50 | 4068348.60 | 2.42 | 900.70 | -2.28 | 74787.00 |
| 541658.90 | 4068348.90 | 2.07 | 900.80 | -2.35 | 74789.00 |
| 541661.10 | 4068349.70 | 2.76 | 900.70 | -2.22 | 74791.00 |
| 541663.60 | 4068350.00 | 2.36 | 900.80 | -2.43 | 74793.00 |
| 541665.90 | 4068350.00 | 1.97 | 900.70 | -2.19 | 74795.00 |
| 541668.30 | 4068349.90 | 1.99 | 900.50 | -2.29 | 74797.00 |
| 541670.80 | 4068349.60 | 2.19 | 900.50 | -2.26 | 74799.00 |
| 541673.10 | 4068349.80 | 1.78 | 900.50 | -2.23 | 74801.00 |
| 541675.60 | 4068349.60 | 2.16 | 900.50 | -2.07 | 74803.00 |
| 541678.00 | 4068349.90 | 1.88 | 900.70 | -2.16 | 74805.00 |

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| 541680.40 | 4068350.10 | 1.82 | 900.70 | -2.30 | 74807.00 |
| 541682.70 | 4068349.80 | 1.88 | 900.80 | -2.17 | 74809.00 |
| 541685.10 | 4068350.10 | 2.14 | 900.80 | -2.21 | 74811.00 |
| 541687.20 | 4068349.60 | 2.18 | 900.70 | -1.85 | 74813.00 |
| 541689.80 | 4068349.10 | 1.63 | 900.70 | -2.00 | 74815.00 |
| 541691.90 | 4068349.10 | 1.99 | 900.70 | -2.15 | 74817.00 |
| 541694.80 | 4068348.90 | 2.00 | 900.50 | -2.46 | 74819.00 |
| 541697.20 | 4068349.00 | 2.18 | 900.50 | -2.14 | 74821.00 |
| 541699.30 | 4068349.30 | 2.14 | 900.70 | -2.27 | 74823.00 |
| 541701.60 | 4068349.50 | 1.85 | 900.70 | -2.10 | 74825.00 |
| 541703.80 | 4068349.60 | 2.03 | 900.60 | -2.36 | 74827.00 |
| 541706.20 | 4068349.90 | 2.07 | 900.70 | -2.26 | 74829.00 |
| 541708.60 | 4068350.10 | 1.97 | 900.70 | -2.27 | 74831.00 |
| 541711.10 | 4068350.30 | 1.99 | 900.60 | -2.27 | 74833.00 |
| 541713.50 | 4068350.40 | 2.01 | 900.70 | -2.36 | 74835.00 |
| 541716.00 | 4068350.50 | 1.92 | 900.80 | -2.42 | 74837.00 |
| 541718.20 | 4068350.30 | 1.68 | 900.80 | -2.24 | 74839.00 |
| 541720.50 | 4068350.50 | 2.01 | 900.40 | -2.11 | 74841.00 |
| 541723.00 | 4068350.30 | 2.20 | 900.50 | -2.13 | 74843.00 |
| 541725.30 | 4068349.70 | 3.05 | 900.20 | -2.38 | 74845.00 |
| 541727.80 | 4068349.40 | 2.33 | 900.20 | -2.00 | 74847.00 |
| 541729.90 | 4068349.10 | 1.48 | 900.50 | -2.13 | 74849.00 |
| 541732.10 | 4068349.10 | 1.76 | 900.50 | -1.66 | 74851.00 |
| 541734.80 | 4068349.40 | 1.95 | 900.50 | -2.08 | 74853.00 |
| 541737.10 | 4068349.40 | 2.03 | 900.50 | -2.03 | 74855.00 |
| 541739.30 | 4068349.40 | 2.12 | 900.50 | -2.06 | 74857.00 |
| 541741.90 | 4068349.50 | 2.15 | 900.50 | -2.13 | 74859.00 |
| 541744.40 | 4068349.90 | 1.86 | 900.50 | -2.11 | 74861.00 |
| 541746.60 | 4068350.20 | 1.81 | 900.70 | -2.16 | 74863.00 |
| 541748.90 | 4068349.70 | 2.26 | 900.50 | -1.81 | 74865.00 |
| 541751.40 | 4068349.70 | 1.95 | 900.60 | -2.15 | 74867.00 |
| 541753.60 | 4068350.10 | 1.75 | 900.60 | -2.12 | 74869.00 |
| 541755.90 | 4068350.30 | 1.89 | 900.30 | -2.21 | 74871.00 |
| 541758.20 | 4068350.00 | 2.26 | 900.40 | -2.36 | 74873.00 |
| 541760.80 | 4068350.20 | 2.62 | 900.30 | -1.98 | 74875.00 |
| 541763.20 | 4068350.50 | 3.31 | 900.40 | -2.14 | 74877.00 |
| 541765.60 | 4068350.40 | 4.47 | 900.60 | -2.15 | 74879.00 |
| 541767.60 | 4068350.50 | 2.92 | 900.90 | -2.23 | 74881.00 |
| 541769.70 | 4068350.40 | 0.80 | 901.20 | -2.06 | 74883.00 |
| 541772.00 | 4068350.50 | 6.77 | 901.30 | -2.02 | 74885.00 |
| 541774.30 | 4068350.50 | 6.55 | 901.50 | -2.20 | 74887.00 |
| 541776.40 | 4068350.80 | 4.88 | 901.60 | -2.31 | 74889.00 |
| 541778.50 | 4068351.30 | 6.43 | 901.60 | -2.14 | 74891.00 |
| 541780.60 | 4068351.60 | 5.71 | 901.70 | -2.23 | 74893.00 |
| 541782.80 | 4068351.90 | 4.97 | 901.70 | -2.24 | 74895.00 |
| 541785.10 | 4068352.40 | 4.88 | 901.70 | -2.13 | 74897.00 |
| 541787.30 | 4068352.50 | 4.46 | 901.70 | -2.40 | 74899.00 |
| 541789.80 | 4068352.70 | 4.44 | 901.60 | -2.11 | 74901.00 |
| 541792.30 | 4068352.90 | 4.08 | 901.60 | -2.29 | 74903.00 |
| 541794.70 | 4068353.10 | 3.75 | 901.60 | -2.44 | 74905.00 |
| 541796.70 | 4068353.50 | 2.69 | 901.50 | -2.23 | 74907.00 |
| 541798.90 | 4068353.70 | 2.91 | 901.30 | -2.26 | 74909.00 |
| 541801.20 | 4068354.20 | 3.56 | 900.80 | -2.40 | 74911.00 |
| 541803.40 | 4068353.40 | 3.43 | 900.50 | -1.95 | 74913.00 |
| 541805.80 | 4068353.30 | 2.84 | 900.40 | -2.27 | 74915.00 |
| 541808.00 | 4068352.70 | 2.82 | 900.40 | -2.13 | 74917.00 |
| 541810.00 | 4068351.80 | 2.99 | 900.30 | -2.38 | 74919.00 |

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| 541811.90 | 4068350.90 | 3.04 | 900.50 | -2.18 | 74921.00 |
| 541813.70 | 4068350.60 | 2.75 | 900.70 | -2.27 | 74923.00 |
| 541815.40 | 4068350.30 | 2.72 | 900.90 | -2.21 | 74925.00 |
| 541817.40 | 4068349.70 | 2.65 | 901.00 | -2.19 | 74927.00 |
| 541818.20 | 4068349.70 | 2.98 | 901.00 | -2.31 | 74989.00 |
| 541818.60 | 4068349.80 | 2.96 | 901.10 | -2.31 | 74990.00 |
| 541820.00 | 4068349.90 | 3.42 | 901.10 | -2.20 | 74992.00 |
| 541822.00 | 4068349.40 | 3.68 | 901.10 | -1.83 | 74994.00 |
| 541824.10 | 4068348.90 | 4.41 | 901.10 | -2.44 | 74996.00 |
| 541826.50 | 4068348.50 | 3.67 | 901.10 | -2.21 | 74998.00 |
| 541828.70 | 4068348.10 | 3.80 | 901.10 | -1.71 | 75000.00 |
| 541831.00 | 4068346.90 | 3.06 | 901.00 | -2.08 | 75002.00 |
| 541833.40 | 4068346.70 | 4.17 | 901.00 | -2.28 | 75004.00 |
| 541835.80 | 4068346.30 | 4.33 | 900.90 | -2.70 | 75006.00 |
| 541838.00 | 4068345.50 | 4.73 | 900.80 | -2.81 | 75008.00 |
| 541840.30 | 4068345.30 | 5.39 | 900.90 | -2.78 | 75010.00 |
| 541842.40 | 4068345.40 | 4.90 | 901.00 | -2.78 | 75012.00 |
| 541844.80 | 4068345.20 | 5.03 | 901.10 | -2.96 | 75014.00 |
| 541846.80 | 4068346.00 | 4.63 | 901.20 | -2.71 | 75016.00 |
| 541848.70 | 4068345.80 | 4.97 | 901.30 | -2.67 | 75018.00 |
| 541850.80 | 4068345.60 | 4.82 | 901.00 | -2.94 | 75020.00 |
| 541852.90 | 4068345.80 | 4.96 | 901.20 | -3.29 | 75022.00 |
| 541855.40 | 4068345.60 | 4.04 | 900.90 | -2.61 | 75024.00 |
| 541857.40 | 4068345.80 | 4.69 | 901.10 | -2.31 | 75026.00 |
| 541859.40 | 4068346.50 | 4.84 | 901.00 | -2.86 | 75028.00 |
| 541861.30 | 4068347.30 | 5.24 | 901.10 | -2.92 | 75030.00 |
| 541863.50 | 4068347.40 | 6.09 | 901.30 | -2.57 | 75032.00 |
| 541865.60 | 4068347.50 | 5.06 | 901.50 | -2.95 | 75034.00 |
| 541867.40 | 4068348.20 | 4.42 | 901.90 | -3.35 | 75036.00 |
| 541869.10 | 4068348.60 | 5.32 | 902.10 | -3.19 | 75038.00 |
| 541870.50 | 4068349.50 | 6.07 | 902.30 | -3.32 | 75040.00 |
| 541872.30 | 4068349.90 | 6.49 | 902.50 | -3.30 | 75042.00 |
| 541874.40 | 4068350.20 | 5.78 | 902.70 | -3.22 | 75044.00 |
| 541876.40 | 4068350.50 | 6.00 | 903.00 | -3.45 | 75046.00 |
| 541878.70 | 4068350.60 | 5.85 | 903.10 | -3.46 | 75048.00 |
| 541880.80 | 4068350.60 | 5.35 | 903.30 | -3.46 | 75050.00 |
| 541883.10 | 4068350.60 | 5.71 | 903.40 | -3.45 | 75052.00 |
| 541885.30 | 4068350.70 | 5.74 | 903.60 | -3.54 | 75054.00 |
| 541887.40 | 4068351.00 | 5.73 | 903.70 | -3.46 | 75056.00 |
| 541889.70 | 4068351.00 | 5.65 | 903.80 | -3.60 | 75058.00 |
| 541892.10 | 4068350.70 | 6.10 | 903.90 | -3.42 | 75060.00 |
| 541894.20 | 4068351.00 | 5.57 | 904.00 | -3.34 | 75062.00 |
| 541896.60 | 4068351.20 | 6.33 | 904.00 | -3.22 | 75064.00 |
| 541898.80 | 4068351.00 | 6.76 | 904.10 | -3.00 | 75066.00 |
| 541901.10 | 4068350.40 | 7.46 | 904.20 | -2.77 | 75068.00 |
| 541903.30 | 4068349.80 | 6.79 | 904.20 | -3.21 | 75070.00 |
| 541905.70 | 4068350.40 | 6.55 | 904.30 | -3.14 | 75072.00 |
| 541908.00 | 4068350.70 | 7.09 | 904.30 | -2.59 | 75074.00 |
| 541910.40 | 4068350.50 | 7.68 | 904.30 | -2.09 | 75076.00 |
| 541912.70 | 4068350.80 | 7.69 | 904.30 | -1.98 | 75078.00 |
| 541915.00 | 4068351.10 | 7.19 | 904.50 | -2.06 | 75080.00 |
| 541917.30 | 4068351.10 | 7.51 | 904.50 | -2.21 | 75082.00 |
| 541919.70 | 4068351.10 | 8.20 | 904.60 | -1.96 | 75084.00 |
| 541921.90 | 4068352.00 | 7.78 | 904.70 | -2.15 | 75086.00 |
| 541924.00 | 4068352.70 | 7.70 | 904.80 | -2.18 | 75088.00 |
| 541926.10 | 4068352.40 | 7.33 | 905.00 | -1.85 | 75090.00 |
| 541928.50 | 4068351.90 | 7.89 | 905.00 | -1.64 | 75092.00 |

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| 541930.80 | 4068351.80 | 8.05 | 905.00 | -1.87 | 75094.00 |
| 541933.10 | 4068351.90 | 7.47 | 905.10 | -2.67 | 75096.00 |
| 541935.20 | 4068352.30 | 6.72 | 905.10 | -2.63 | 75098.00 |
| 541937.50 | 4068352.20 | 7.82 | 905.20 | -2.31 | 75100.00 |
| 541939.70 | 4068352.40 | 7.50 | 905.30 | -2.16 | 75102.00 |
| 541942.00 | 4068352.50 | 6.64 | 905.40 | -1.52 | 75104.00 |
| 541944.30 | 4068352.30 | 6.78 | 905.50 | -1.77 | 75106.00 |
| 541946.60 | 4068352.40 | 6.40 | 905.60 | -2.16 | 75108.00 |
| 541948.80 | 4068352.70 | 5.93 | 905.70 | -1.63 | 75110.00 |
| 541951.30 | 4068352.50 | 6.01 | 905.80 | -1.85 | 75112.00 |
| 541953.60 | 4068352.00 | 5.38 | 905.90 | -1.57 | 75114.00 |
| 541956.00 | 4068351.40 | 5.46 | 906.00 | -1.73 | 75116.00 |
| 541958.30 | 4068350.90 | 5.53 | 906.10 | -2.15 | 75118.00 |
| 541960.70 | 4068350.50 | 5.58 | 906.20 | -1.75 | 75120.00 |
| 541963.00 | 4068350.70 | 6.36 | 906.30 | -2.15 | 75122.00 |
| 541965.30 | 4068350.50 | 4.91 | 906.40 | -1.84 | 75124.00 |
| 541967.80 | 4068350.20 | 6.29 | 906.50 | -1.84 | 75126.00 |
| 541970.20 | 4068349.60 | 6.20 | 906.60 | -2.27 | 75128.00 |
| 541972.40 | 4068349.20 | 5.18 | 906.70 | -1.83 | 75130.00 |
| 541974.60 | 4068348.90 | 5.43 | 906.80 | -2.62 | 75132.00 |
| 541976.80 | 4068348.10 | 7.11 | 906.80 | -2.09 | 75134.00 |
| 541979.10 | 4068347.40 | 5.99 | 906.90 | -1.98 | 75136.00 |
| 541981.30 | 4068347.30 | 5.49 | 907.00 | -1.71 | 75138.00 |
| 541983.60 | 4068347.40 | 4.50 | 907.00 | -1.26 | 75140.00 |
| 541986.10 | 4068347.20 | 4.69 | 907.10 | -1.03 | 75142.00 |
| 541988.50 | 4068347.20 | 4.22 | 907.20 | -1.16 | 75144.00 |
| 541990.90 | 4068346.80 | 4.38 | 907.20 | -1.47 | 75146.00 |
| 541993.30 | 4068346.30 | 4.45 | 907.30 | -1.24 | 75148.00 |
| 541995.70 | 4068346.00 | 4.53 | 907.40 | -1.17 | 75150.00 |
| 541998.00 | 4068346.80 | 4.41 | 907.40 | -1.96 | 75152.00 |
| 542000.10 | 4068347.90 | 5.54 | 907.50 | -2.87 | 75154.00 |
| 542002.50 | 4068348.00 | 7.93 | 907.60 | -1.69 | 75156.00 |
| 542004.80 | 4068348.10 | 8.05 | 907.70 | -1.98 | 75158.00 |
| 542007.20 | 4068348.30 | 8.76 | 907.80 | -2.59 | 75160.00 |
| 542009.70 | 4068348.60 | 6.85 | 907.90 | -2.73 | 75162.00 |
| 542012.00 | 4068349.00 | 8.19 | 907.90 | -3.00 | 75164.00 |
| 542014.40 | 4068348.90 | 9.08 | 908.00 | -2.77 | 75166.00 |
| 542016.80 | 4068348.50 | 10.52 | 908.00 | -2.04 | 75168.00 |
| 542019.10 | 4068347.80 | 10.17 | 908.10 | -1.81 | 75170.00 |
| 542021.50 | 4068347.00 | 9.02 | 908.20 | -2.71 | 75172.00 |
| 542024.10 | 4068347.00 | 7.09 | 908.20 | -3.03 | 75174.00 |
| 542026.30 | 4068346.80 | 7.79 | 908.30 | -2.88 | 75176.00 |
| 542028.80 | 4068346.60 | 8.14 | 908.40 | -2.11 | 75178.00 |
| 542031.10 | 4068347.30 | 7.35 | 908.50 | -1.83 | 75180.00 |
| 542033.30 | 4068348.00 | 7.34 | 908.50 | -1.82 | 75182.00 |
| 542035.50 | 4068348.50 | 7.27 | 908.60 | -1.69 | 75184.00 |
| 542037.90 | 4068348.90 | 6.17 | 908.70 | -1.71 | 75186.00 |
| 542040.20 | 4068349.40 | 6.90 | 908.70 | -1.64 | 75188.00 |
| 542042.50 | 4068349.60 | 8.69 | 908.80 | -1.32 | 75190.00 |
| 542044.80 | 4068349.50 | 9.10 | 908.90 | -2.18 | 75192.00 |
| 542047.20 | 4068349.70 | 5.79 | 908.90 | -2.85 | 75194.00 |
| 542049.50 | 4068349.60 | 8.91 | 909.00 | -3.25 | 75196.00 |
| 542051.70 | 4068350.60 | 8.23 | 909.10 | -3.03 | 75198.00 |
| 542053.50 | 4068352.10 | 9.45 | 909.10 | -3.25 | 75200.00 |
| 542055.60 | 4068353.30 | 8.24 | 909.20 | -3.67 | 75202.00 |
| 542058.00 | 4068353.70 | 6.45 | 909.30 | -2.86 | 75204.00 |
| 542060.30 | 4068353.40 | 6.95 | 909.40 | -2.21 | 75206.00 |

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| 542062.60 | 4068352.60 | 7.35 | 909.40 | -1.74 | 75208.00 |
| 542064.90 | 4068351.70 | 7.47 | 909.50 | -1.75 | 75210.00 |
| 542067.20 | 4068351.20 | 5.99 | 909.60 | -2.59 | 75212.00 |
| 542068.80 | 4068349.80 | 6.65 | 909.60 | -2.41 | 75214.00 |
| 542070.90 | 4068348.80 | 6.84 | 909.60 | -2.20 | 75216.00 |
| 542073.30 | 4068348.80 | 6.47 | 909.60 | -2.69 | 75218.00 |
| 542075.50 | 4068349.60 | 6.77 | 909.80 | -2.56 | 75220.00 |
| 542077.50 | 4068350.00 | 6.19 | 909.80 | -2.17 | 75222.00 |
| 542079.70 | 4068349.90 | 6.97 | 909.90 | -2.24 | 75224.00 |
| 542081.90 | 4068350.30 | 6.00 | 910.00 | -2.91 | 75226.00 |
| 542084.20 | 4068350.50 | 6.55 | 910.00 | -3.22 | 75228.00 |
| 542086.70 | 4068350.70 | 7.85 | 910.00 | -2.81 | 75230.00 |
| 542088.90 | 4068351.10 | 8.28 | 910.00 | -3.14 | 75232.00 |
| 542091.20 | 4068351.60 | 7.76 | 910.10 | -3.32 | 75234.00 |
| 542093.40 | 4068352.40 | 7.82 | 910.20 | -2.85 | 75236.00 |
| 542095.50 | 4068353.40 | 8.49 | 910.20 | -2.71 | 75238.00 |
| 542097.20 | 4068354.10 | 7.53 | 910.20 | -2.24 | 75240.00 |
| 542098.50 | 4068354.80 | 8.96 | 910.20 | -1.64 | 75242.00 |
| 542100.10 | 4068355.10 | 10.24 | 910.20 | -1.22 | 75244.00 |
| 542100.60 | 4068355.30 | 10.35 | 910.20 | -1.47 | 75245.00 |
| 542100.10 | 4068354.00 | 10.19 | 910.20 | -1.07 | 75295.00 |
| 542100.20 | 4068353.90 | 9.88 | 910.20 | -1.17 | 75297.00 |
| 542100.70 | 4068355.00 | 8.57 | 910.20 | -1.30 | 75299.00 |
| 542099.80 | 4068356.80 | 6.69 | 910.30 | -1.85 | 75301.00 |
| 542099.90 | 4068359.30 | 9.17 | 910.30 | -3.40 | 75303.00 |
| 542099.20 | 4068361.70 | 9.22 | 910.30 | -2.98 | 75305.00 |
| 542097.80 | 4068363.30 | 8.81 | 910.40 | -2.90 | 75307.00 |
| 542097.70 | 4068365.60 | 7.69 | 910.40 | -2.84 | 75309.00 |
| 542098.40 | 4068368.10 | 7.63 | 910.40 | -2.90 | 75311.00 |
| 542099.10 | 4068370.50 | 7.15 | 910.50 | -2.82 | 75313.00 |
| 542099.00 | 4068373.00 | 7.55 | 910.40 | -3.09 | 75315.00 |
| 542099.00 | 4068375.40 | 6.94 | 910.50 | -2.33 | 75317.00 |
| 542098.80 | 4068377.80 | 7.86 | 910.50 | -2.44 | 75319.00 |
| 542097.90 | 4068380.00 | 7.82 | 910.50 | -1.20 | 75321.00 |
| 542096.80 | 4068382.30 | 7.95 | 910.40 | -2.51 | 75323.00 |
| 542096.40 | 4068384.80 | 7.05 | 910.40 | -2.80 | 75325.00 |
| 542096.50 | 4068387.30 | 6.98 | 910.50 | -3.01 | 75327.00 |
| 542097.20 | 4068389.80 | 5.54 | 910.40 | -1.98 | 75329.00 |
| 542098.10 | 4068392.20 | 7.06 | 910.40 | -1.41 | 75331.00 |
| 542098.90 | 4068394.60 | 5.14 | 910.50 | -2.02 | 75333.00 |
| 542099.70 | 4068397.00 | 6.29 | 910.50 | -1.49 | 75335.00 |
| 542100.30 | 4068399.30 | 3.61 | 910.50 | -1.71 | 75337.00 |
| 542100.70 | 4068401.40 | 5.63 | 910.50 | -1.72 | 75339.00 |
| 542102.10 | 4068401.80 | 4.11 | 910.40 | -1.47 | 75376.00 |
| 542101.80 | 4068402.00 | 3.86 | 910.50 | -2.16 | 75378.00 |
| 542100.30 | 4068402.00 | 4.69 | 910.50 | -2.54 | 75380.00 |
| 542098.00 | 4068402.10 | 3.53 | 910.40 | -1.84 | 75382.00 |
| 542095.60 | 4068402.50 | 3.73 | 910.40 | -2.25 | 75384.00 |
| 542093.00 | 4068402.50 | 4.47 | 910.30 | -1.62 | 75386.00 |
| 542090.50 | 4068402.60 | 4.56 | 910.30 | -1.91 | 75388.00 |
| 542088.00 | 4068402.70 | 4.09 | 910.20 | -1.84 | 75390.00 |
| 542085.40 | 4068402.60 | 4.07 | 910.10 | -2.17 | 75392.00 |
| 542083.00 | 4068402.90 | 5.08 | 910.10 | -2.11 | 75394.00 |
| 542080.60 | 4068403.00 | 4.07 | 910.10 | -2.02 | 75396.00 |
| 542078.00 | 4068403.00 | 4.78 | 910.00 | -2.10 | 75398.00 |
| 542075.60 | 4068402.80 | 3.71 | 910.00 | -2.09 | 75400.00 |
| 542073.10 | 4068402.70 | 4.21 | 909.90 | -1.87 | 75402.00 |

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| 542070.50 | 4068402.80 | 4.29 | 909.90 | -1.39 | 75404.00 |
| 542068.00 | 4068402.80 | 4.58 | 909.80 | -1.13 | 75406.00 |
| 542065.60 | 4068402.80 | 5.47 | 909.70 | -1.21 | 75408.00 |
| 542063.10 | 4068402.70 | 4.87 | 909.70 | -0.76 | 75410.00 |
| 542060.70 | 4068402.70 | 6.73 | 909.70 | -1.70 | 75412.00 |
| 542058.30 | 4068402.40 | 5.43 | 909.70 | -2.53 | 75414.00 |
| 542055.80 | 4068402.30 | 5.84 | 909.60 | -2.15 | 75416.00 |
| 542053.50 | 4068402.50 | 6.87 | 909.60 | -1.81 | 75418.00 |
| 542051.20 | 4068403.00 | 7.26 | 909.60 | -2.13 | 75420.00 |
| 542048.60 | 4068403.00 | 7.05 | 909.50 | -2.07 | 75422.00 |
| 542046.20 | 4068402.90 | 6.92 | 909.40 | -2.91 | 75424.00 |
| 542043.70 | 4068403.30 | 5.56 | 909.30 | -2.23 | 75426.00 |
| 542041.30 | 4068404.10 | 6.85 | 909.30 | -0.89 | 75428.00 |
| 542038.70 | 4068404.00 | 5.88 | 909.20 | -0.56 | 75430.00 |
| 542036.30 | 4068403.20 | 5.79 | 909.20 | -1.21 | 75432.00 |
| 542033.90 | 4068402.70 | 6.15 | 909.10 | -1.63 | 75434.00 |
| 542031.60 | 4068402.20 | 4.25 | 909.10 | -2.01 | 75436.00 |
| 542029.20 | 4068402.30 | 3.53 | 909.10 | -2.38 | 75438.00 |
| 542026.90 | 4068401.80 | 6.53 | 909.00 | -1.67 | 75440.00 |
| 542024.40 | 4068402.20 | 4.58 | 909.10 | -1.56 | 75442.00 |
| 542022.10 | 4068402.00 | 4.13 | 909.00 | -1.60 | 75444.00 |
| 542019.90 | 4068401.50 | 4.84 | 909.00 | -1.30 | 75446.00 |
| 542017.40 | 4068401.60 | 5.06 | 908.80 | -1.35 | 75448.00 |
| 542014.90 | 4068401.10 | 4.80 | 908.80 | -1.52 | 75450.00 |
| 542012.60 | 4068400.70 | 5.15 | 908.70 | -1.50 | 75452.00 |
| 542010.30 | 4068400.30 | 6.28 | 908.60 | -1.37 | 75454.00 |
| 542007.80 | 4068399.70 | 5.11 | 908.50 | -1.69 | 75456.00 |
| 542005.30 | 4068399.60 | 5.55 | 908.40 | -2.10 | 75458.00 |
| 542002.80 | 4068399.70 | 5.27 | 908.30 | -2.58 | 75460.00 |
| 542000.30 | 4068399.80 | 6.16 | 908.20 | -2.06 | 75462.00 |
| 541997.90 | 4068399.60 | 6.31 | 908.20 | -1.43 | 75464.00 |
| 541995.60 | 4068399.30 | 4.95 | 908.10 | -2.09 | 75466.00 |
| 541993.20 | 4068399.30 | 4.71 | 907.90 | -1.62 | 75468.00 |
| 541990.90 | 4068399.30 | 6.25 | 907.90 | -1.33 | 75470.00 |
| 541988.40 | 4068399.10 | 4.59 | 907.80 | -1.79 | 75472.00 |
| 541986.10 | 4068398.40 | 4.50 | 907.70 | -1.75 | 75474.00 |
| 541983.90 | 4068398.10 | 4.76 | 907.60 | -1.36 | 75476.00 |
| 541981.40 | 4068397.80 | 4.17 | 907.60 | -2.42 | 75478.00 |
| 541979.40 | 4068396.80 | 5.04 | 907.50 | -2.61 | 75480.00 |
| 541977.30 | 4068396.40 | 4.78 | 907.50 | -2.15 | 75482.00 |
| 541974.90 | 4068396.00 | 5.04 | 907.40 | -1.20 | 75484.00 |
| 541973.00 | 4068395.20 | 5.49 | 907.20 | -1.55 | 75486.00 |
| 541970.80 | 4068394.80 | 5.18 | 907.20 | -1.95 | 75488.00 |
| 541968.70 | 4068394.70 | 4.68 | 907.20 | -1.97 | 75490.00 |
| 541966.40 | 4068394.90 | 5.13 | 907.00 | -2.59 | 75492.00 |
| 541964.30 | 4068394.60 | 5.53 | 907.00 | -2.70 | 75494.00 |
| 541962.20 | 4068394.80 | 5.89 | 906.90 | -2.47 | 75496.00 |
| 541959.90 | 4068394.20 | 8.26 | 906.70 | -1.43 | 75498.00 |
| 541957.50 | 4068394.10 | 6.91 | 906.60 | -0.92 | 75500.00 |
| 541955.30 | 4068393.70 | 4.62 | 906.50 | -1.75 | 75502.00 |
| 541953.00 | 4068393.50 | 5.07 | 906.40 | -1.51 | 75504.00 |
| 541950.60 | 4068393.50 | 4.76 | 906.30 | -1.42 | 75506.00 |
| 541948.30 | 4068393.50 | 4.55 | 906.10 | -1.22 | 75508.00 |
| 541946.00 | 4068393.90 | 4.57 | 906.00 | -1.06 | 75510.00 |
| 541943.70 | 4068393.80 | 4.21 | 905.90 | -0.99 | 75512.00 |
| 541941.30 | 4068393.50 | 3.82 | 905.80 | -0.83 | 75514.00 |
| 541939.00 | 4068393.30 | 3.98 | 905.70 | -0.72 | 75516.00 |

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| 541936.50 | 4068393.10 | 4.77 | 905.60 | -0.88 | 75518.00 |
| 541934.10 | 4068392.90 | 5.06 | 905.50 | -0.93 | 75520.00 |
| 541931.70 | 4068392.80 | 3.99 | 905.40 | -1.69 | 75522.00 |
| 541929.30 | 4068393.20 | 5.02 | 905.30 | -2.43 | 75524.00 |
| 541926.80 | 4068393.70 | 5.95 | 905.10 | -2.68 | 75526.00 |
| 541924.40 | 4068393.80 | 6.48 | 904.90 | -1.95 | 75528.00 |
| 541922.00 | 4068393.50 | 7.21 | 904.90 | -1.04 | 75530.00 |
| 541919.70 | 4068393.50 | 6.84 | 904.70 | -1.53 | 75532.00 |
| 541917.30 | 4068393.70 | 5.14 | 904.50 | -1.82 | 75534.00 |
| 541914.80 | 4068393.70 | 5.97 | 904.30 | -3.03 | 75536.00 |
| 541912.60 | 4068394.00 | 8.74 | 904.20 | -3.09 | 75538.00 |
| 541910.40 | 4068393.30 | 8.80 | 904.10 | -3.30 | 75540.00 |
| 541908.30 | 4068392.40 | 8.87 | 904.00 | -3.06 | 75542.00 |
| 541906.50 | 4068391.60 | 8.48 | 903.90 | -3.39 | 75544.00 |
| 541904.30 | 4068392.60 | 8.87 | 903.50 | -3.00 | 75546.00 |
| 541902.10 | 4068393.60 | 9.00 | 903.40 | -2.78 | 75548.00 |
| 541900.20 | 4068394.20 | 8.30 | 903.10 | -1.69 | 75550.00 |
| 541898.50 | 4068395.10 | 9.05 | 902.90 | -0.76 | 75552.00 |
| 541897.10 | 4068395.80 | 9.54 | 902.80 | -1.00 | 75554.00 |
| 541895.40 | 4068396.10 | 9.69 | 902.40 | -2.38 | 75556.00 |
| 541893.70 | 4068396.60 | 10.12 | 902.30 | -3.29 | 75558.00 |
| 541892.00 | 4068397.80 | 11.12 | 902.10 | -2.84 | 75560.00 |
| 541889.90 | 4068397.80 | 9.25 | 902.10 | -3.55 | 75562.00 |
| 541888.10 | 4068397.90 | 8.99 | 902.20 | -3.40 | 75564.00 |
| 541886.80 | 4068397.60 | 8.85 | 902.20 | -3.63 | 75566.00 |
| 541885.70 | 4068397.70 | 8.98 | 902.20 | -3.66 | 75568.00 |
| 541883.90 | 4068397.90 | 8.08 | 902.60 | -3.61 | 75570.00 |
| 541882.90 | 4068398.00 | 7.76 | 903.00 | -3.06 | 75572.00 |
| 541882.00 | 4068398.20 | 6.97 | 903.40 | -3.11 | 75574.00 |
| 541881.10 | 4068398.30 | 7.08 | 903.70 | -2.65 | 75576.00 |
| 541880.30 | 4068398.90 | 6.11 | 904.30 | -3.17 | 75578.00 |
| 541879.20 | 4068399.00 | 5.20 | 904.70 | -2.34 | 75580.00 |
| 541878.10 | 4068398.90 | 4.42 | 904.70 | -2.40 | 75582.00 |
| 541876.50 | 4068399.10 | 4.70 | 904.70 | -2.41 | 75584.00 |
| 541874.80 | 4068398.50 | 4.74 | 904.60 | -2.48 | 75586.00 |
| 541872.80 | 4068398.20 | 5.63 | 904.70 | -2.51 | 75588.00 |
| 541870.70 | 4068397.80 | 5.89 | 904.60 | -2.18 | 75590.00 |
| 541868.60 | 4068397.00 | 4.74 | 904.50 | -2.07 | 75592.00 |
| 541866.50 | 4068396.10 | 5.40 | 904.40 | -2.28 | 75594.00 |
| 541864.50 | 4068394.90 | 5.35 | 904.40 | -2.41 | 75596.00 |
| 541862.30 | 4068394.00 | 5.33 | 904.20 | -2.35 | 75598.00 |
| 541860.30 | 4068393.10 | 5.03 | 904.10 | -2.26 | 75600.00 |
| 541858.10 | 4068392.20 | 4.05 | 904.00 | -2.27 | 75602.00 |
| 541855.90 | 4068391.40 | 4.76 | 903.90 | -2.16 | 75604.00 |
| 541853.50 | 4068391.30 | 5.25 | 903.70 | -2.05 | 75606.00 |
| 541851.00 | 4068390.90 | 3.85 | 903.60 | -2.05 | 75608.00 |
| 541848.60 | 4068390.60 | 4.14 | 903.50 | -2.06 | 75610.00 |
| 541846.20 | 4068390.10 | 4.11 | 903.20 | -2.12 | 75612.00 |
| 541843.90 | 4068389.80 | 3.12 | 903.10 | -2.11 | 75614.00 |
| 541841.50 | 4068389.60 | 3.42 | 903.00 | -2.15 | 75616.00 |
| 541839.40 | 4068389.40 | 3.28 | 902.80 | -2.09 | 75618.00 |
| 541837.50 | 4068389.10 | 3.10 | 902.70 | -2.05 | 75620.00 |
| 541835.80 | 4068389.70 | 3.40 | 902.40 | -2.11 | 75622.00 |
| 541833.40 | 4068389.80 | 3.13 | 902.10 | -2.34 | 75624.00 |
| 541831.10 | 4068389.60 | 4.91 | 902.00 | -2.26 | 75626.00 |
| 541828.90 | 4068390.20 | 2.87 | 902.10 | -2.19 | 75628.00 |
| 541826.90 | 4068390.50 | 2.51 | 902.50 | -1.86 | 75630.00 |

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| 541822.70 | 4068394.70 | 3.82 | 900.80 | -1.77 | 79191.50 |
| 541822.60 | 4068394.60 | 3.77 | 900.80 | -1.79 | 79193.00 |
| 541821.80 | 4068394.80 | 3.80 | 900.80 | -1.76 | 79195.00 |
| 541821.00 | 4068396.20 | 3.39 | 900.90 | -2.02 | 79197.00 |
| 541819.90 | 4068397.60 | 3.33 | 900.90 | -1.84 | 79199.00 |
| 541819.60 | 4068398.30 | 3.68 | 900.90 | -1.81 | 79200.00 |
| 541817.90 | 4068400.50 | 2.70 | 900.90 | -1.98 | 79203.00 |
| 541816.50 | 4068401.60 | 2.44 | 900.80 | -2.02 | 79205.00 |
| 541815.80 | 4068403.20 | 1.18 | 900.80 | -4.67 | 79207.00 |
| 541814.20 | 4068404.00 | 2.63 | 900.40 | -2.24 | 79209.00 |
| 541812.80 | 4068405.60 | 3.13 | 900.20 | -2.00 | 79211.00 |
| 541811.20 | 4068407.30 | 2.65 | 900.20 | -2.16 | 79213.00 |
| 541810.50 | 4068409.10 | 3.02 | 900.60 | -1.89 | 79215.00 |
| 541810.00 | 4068410.50 | 2.49 | 900.80 | -1.89 | 79217.00 |
| 541808.20 | 4068411.10 | 2.40 | 901.10 | -1.86 | 79219.50 |
| 541806.90 | 4068410.80 | 2.21 | 901.20 | -1.82 | 79221.00 |
| 541804.80 | 4068409.90 | 3.23 | 901.20 | -1.91 | 79223.00 |
| 541802.60 | 4068409.20 | 3.37 | 901.30 | -1.87 | 79225.00 |
| 541800.50 | 4068408.70 | 3.76 | 901.40 | -1.40 | 79227.00 |
| 541798.30 | 4068408.00 | 3.58 | 901.40 | -2.08 | 79229.00 |
| 541795.80 | 4068407.50 | 3.11 | 901.40 | -2.07 | 79231.00 |
| 541793.50 | 4068406.80 | 3.45 | 901.40 | -2.06 | 79233.00 |
| 541791.20 | 4068406.00 | 3.85 | 901.40 | -2.04 | 79235.00 |
| 541788.90 | 4068405.20 | 3.24 | 901.40 | -1.92 | 79237.00 |
| 541786.70 | 4068404.80 | 3.06 | 901.30 | -2.05 | 79239.00 |
| 541784.30 | 4068404.80 | 2.91 | 901.10 | -2.15 | 79241.00 |
| 541781.90 | 4068404.90 | 2.52 | 901.10 | -1.98 | 79243.00 |
| 541779.80 | 4068404.40 | 1.99 | 900.80 | -2.12 | 79245.00 |
| 541778.00 | 4068403.40 | 2.39 | 900.50 | -1.92 | 79247.00 |
| 541775.80 | 4068402.40 | 1.99 | 900.10 | -1.80 | 79249.00 |
| 541773.30 | 4068402.30 | 1.80 | 900.20 | -1.82 | 79251.00 |
| 541770.80 | 4068402.00 | 1.59 | 900.10 | -1.75 | 79253.00 |
| 541768.40 | 4068401.30 | 1.71 | 899.90 | -1.80 | 79255.00 |
| 541766.30 | 4068400.50 | 1.52 | 900.00 | -2.11 | 79257.00 |
| 541764.00 | 4068399.20 | 1.86 | 899.80 | -1.83 | 79259.00 |
| 541761.80 | 4068398.40 | 2.04 | 899.80 | -2.05 | 79261.00 |
| 541759.50 | 4068397.80 | 1.62 | 899.80 | -1.98 | 79263.00 |
| 541757.00 | 4068397.30 | 1.74 | 899.90 | -1.90 | 79265.00 |
| 541754.70 | 4068396.60 | 1.75 | 899.90 | -1.98 | 79267.00 |
| 541752.20 | 4068396.00 | 1.83 | 899.80 | -1.90 | 79269.00 |
| 541749.80 | 4068396.10 | 1.86 | 899.90 | -1.82 | 79271.00 |
| 541747.40 | 4068396.60 | 1.76 | 899.90 | -1.90 | 79273.00 |
| 541745.20 | 4068397.60 | 1.84 | 899.90 | -1.90 | 79275.00 |
| 541742.90 | 4068398.50 | 1.89 | 899.90 | -1.78 | 79277.00 |
| 541740.80 | 4068399.30 | 2.07 | 900.00 | -1.91 | 79279.00 |
| 541739.00 | 4068400.20 | 1.87 | 899.80 | -2.36 | 79281.00 |
| 541736.70 | 4068400.80 | 2.18 | 899.70 | -1.90 | 79283.00 |
| 541734.30 | 4068401.40 | 2.15 | 899.80 | -1.92 | 79285.00 |
| 541732.30 | 4068401.60 | 2.70 | 899.70 | -1.91 | 79287.00 |
| 541729.80 | 4068401.40 | 2.83 | 899.50 | -1.76 | 79289.00 |
| 541727.80 | 4068401.40 | 2.70 | 899.70 | -1.52 | 79291.00 |
| 541725.70 | 4068401.10 | 2.57 | 899.90 | -1.74 | 79293.00 |
| 541723.40 | 4068401.30 | 2.29 | 900.00 | -1.81 | 79295.00 |
| 541721.40 | 4068401.30 | 2.73 | 900.20 | -1.87 | 79297.00 |
| 541719.10 | 4068401.50 | 2.52 | 900.20 | -1.75 | 79299.00 |
| 541716.80 | 4068401.80 | 2.48 | 900.30 | -1.88 | 79301.00 |
| 541714.60 | 4068401.90 | 2.36 | 900.30 | -1.78 | 79303.00 |

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| 541712.20 | 4068401.70 | 2.19 | 900.30 | -1.87 | 79305.00 |
| 541710.00 | 4068402.00 | 2.12 | 900.30 | -2.14 | 79307.00 |
| 541707.70 | 4068402.10 | 2.26 | 900.20 | -1.88 | 79309.00 |
| 541705.30 | 4068402.20 | 2.12 | 900.20 | -1.68 | 79311.00 |
| 541702.90 | 4068402.60 | 2.37 | 900.30 | -1.93 | 79313.00 |
| 541700.50 | 4068402.40 | 2.14 | 900.20 | -1.94 | 79315.00 |
| 541698.10 | 4068402.10 | 2.23 | 900.20 | -1.66 | 79317.00 |
| 541695.70 | 4068401.60 | 1.93 | 900.20 | -1.81 | 79319.00 |
| 541693.20 | 4068401.70 | 2.15 | 900.10 | -1.83 | 79321.00 |
| 541690.80 | 4068402.30 | 2.20 | 900.10 | -1.80 | 79323.00 |
| 541688.60 | 4068402.80 | 2.29 | 900.20 | -1.71 | 79325.00 |
| 541686.20 | 4068403.00 | 2.00 | 900.20 | -1.92 | 79327.00 |
| 541684.00 | 4068402.90 | 2.13 | 900.00 | -1.82 | 79329.00 |
| 541681.40 | 4068403.20 | 2.13 | 900.10 | -1.68 | 79331.00 |
| 541679.20 | 4068403.20 | 1.97 | 900.20 | -1.78 | 79333.00 |
| 541677.00 | 4068403.70 | 2.05 | 900.20 | -1.77 | 79335.00 |
| 541674.70 | 4068404.20 | 2.20 | 900.10 | -1.79 | 79337.00 |
| 541672.50 | 4068404.20 | 2.25 | 900.20 | -1.92 | 79339.00 |
| 541670.40 | 4068405.10 | 2.37 | 900.30 | -1.71 | 79341.00 |
| 541668.40 | 4068406.00 | 2.46 | 900.40 | -2.10 | 79343.00 |
| 541665.90 | 4068406.20 | 2.35 | 900.30 | -1.98 | 79345.00 |
| 541663.50 | 4068405.80 | 2.28 | 900.40 | -1.87 | 79347.00 |
| 541661.30 | 4068405.10 | 2.59 | 900.50 | -1.67 | 79349.00 |
| 541658.70 | 4068404.60 | 2.67 | 900.40 | -1.97 | 79351.00 |
| 541656.20 | 4068404.30 | 2.75 | 900.30 | -1.74 | 79353.00 |
| 541654.00 | 4068403.90 | 2.22 | 900.40 | -1.89 | 79355.00 |
| 541651.80 | 4068403.60 | 2.81 | 900.20 | -1.81 | 79357.00 |
| 541649.10 | 4068403.30 | 2.88 | 900.00 | -1.74 | 79359.00 |
| 541646.60 | 4068402.90 | 2.57 | 900.10 | -1.68 | 79361.00 |
| 541644.20 | 4068402.80 | 2.51 | 900.20 | -1.73 | 79363.00 |
| 541641.80 | 4068401.70 | 2.61 | 900.10 | -1.71 | 79365.00 |
| 541639.70 | 4068400.50 | 2.75 | 900.10 | -1.78 | 79367.00 |
| 541637.20 | 4068400.30 | 2.65 | 900.10 | -1.81 | 79369.00 |
| 541634.80 | 4068399.40 | 2.80 | 900.10 | -1.79 | 79371.00 |
| 541632.40 | 4068398.60 | 2.76 | 900.10 | -1.81 | 79373.00 |
| 541630.10 | 4068397.90 | 2.72 | 900.10 | -1.73 | 79375.00 |
| 541627.70 | 4068397.10 | 2.74 | 900.10 | -1.69 | 79377.00 |
| 541625.30 | 4068396.50 | 2.66 | 900.00 | -1.81 | 79379.00 |
| 541622.80 | 4068396.20 | 2.83 | 899.90 | -1.65 | 79381.00 |
| 541620.50 | 4068396.50 | 2.65 | 900.00 | -1.91 | 79383.00 |
| 541618.00 | 4068396.90 | 2.99 | 899.90 | -1.75 | 79385.00 |
| 541615.50 | 4068396.20 | 2.82 | 899.90 | -1.64 | 79387.00 |
| 541613.30 | 4068395.30 | 2.88 | 899.90 | -1.66 | 79389.00 |
| 541611.10 | 4068394.30 | 2.74 | 900.00 | -1.68 | 79391.00 |
| 541608.90 | 4068393.60 | 2.79 | 900.10 | -1.74 | 79393.00 |
| 541606.60 | 4068392.80 | 3.00 | 900.00 | -1.67 | 79395.00 |
| 541604.20 | 4068392.80 | 2.79 | 900.00 | -1.87 | 79397.00 |
| 541601.80 | 4068393.20 | 2.95 | 900.00 | -1.76 | 79399.00 |
| 541599.10 | 4068393.80 | 3.01 | 899.90 | -1.80 | 79401.00 |
| 541596.80 | 4068394.90 | 3.02 | 899.80 | -1.79 | 79403.00 |
| 541594.30 | 4068395.80 | 2.98 | 899.70 | -1.77 | 79405.00 |
| 541591.90 | 4068397.00 | 2.26 | 899.80 | -1.73 | 79407.00 |
| 541589.80 | 4068398.20 | 2.93 | 899.90 | -1.78 | 79409.00 |
| 541587.20 | 4068398.60 | 2.61 | 899.90 | -1.80 | 79411.00 |
| 541584.80 | 4068399.00 | 2.69 | 899.90 | -1.79 | 79413.00 |
| 541582.20 | 4068398.80 | 2.87 | 899.80 | -1.69 | 79415.00 |
| 541579.70 | 4068399.10 | 3.11 | 899.80 | -1.72 | 79417.00 |

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| 541577.40 | 4068399.10 | 3.22 | 899.80 | -1.73 | 79419.00 |
| 541575.00 | 4068399.20 | 2.75 | 899.80 | -1.87 | 79421.00 |
| 541572.80 | 4068399.20 | 2.79 | 899.70 | -1.82 | 79423.00 |
| 541570.40 | 4068398.70 | 2.97 | 899.50 | -1.84 | 79425.00 |
| 541567.80 | 4068398.50 | 3.24 | 899.40 | -1.81 | 79427.00 |
| 541565.20 | 4068398.80 | 3.11 | 899.40 | -1.72 | 79429.00 |
| 541562.80 | 4068398.90 | 2.76 | 899.50 | -1.83 | 79431.00 |
| 541560.70 | 4068399.70 | 2.88 | 899.50 | -1.77 | 79433.00 |
| 541558.10 | 4068399.90 | 3.01 | 899.50 | -1.75 | 79435.00 |
| 541555.50 | 4068400.00 | 2.77 | 899.50 | -1.82 | 79437.00 |
| 541553.10 | 4068400.20 | 3.04 | 899.40 | -1.85 | 79439.00 |
| 541550.60 | 4068400.40 | 3.16 | 899.20 | -1.84 | 79441.00 |
| 541548.10 | 4068400.30 | 3.26 | 899.00 | -1.67 | 79443.00 |
| 541545.40 | 4068400.50 | 2.76 | 899.10 | -1.77 | 79445.00 |
| 541543.10 | 4068400.90 | 3.27 | 899.00 | -1.56 | 79447.00 |
| 541540.60 | 4068400.80 | 2.94 | 899.10 | -1.66 | 79449.00 |
| 541538.20 | 4068400.50 | 2.84 | 899.10 | -1.84 | 79451.00 |
| 541535.70 | 4068400.60 | 2.75 | 899.00 | -1.82 | 79453.00 |
| 541533.10 | 4068400.80 | 2.80 | 898.90 | -2.00 | 79455.00 |
| 541530.80 | 4068400.70 | 3.13 | 898.80 | -1.67 | 79457.00 |
| 541528.30 | 4068400.10 | 3.17 | 898.50 | -1.72 | 79459.00 |
| 541525.90 | 4068400.30 | 3.54 | 898.60 | -1.73 | 79461.00 |
| 541523.40 | 4068400.40 | 3.13 | 898.60 | -1.71 | 79463.00 |
| 541520.80 | 4068400.10 | 3.11 | 898.70 | -1.76 | 79465.00 |
| 541518.40 | 4068400.20 | 3.31 | 898.80 | -1.56 | 79467.00 |
| 541516.00 | 4068400.60 | 3.67 | 899.00 | -1.58 | 79469.00 |
| 541513.50 | 4068401.10 | 3.68 | 899.00 | -1.61 | 79471.00 |
| 541511.00 | 4068401.10 | 3.13 | 899.00 | -1.56 | 79473.00 |
| 541508.50 | 4068400.80 | 4.01 | 899.00 | -1.57 | 79475.00 |
| 541506.20 | 4068401.10 | 3.92 | 899.10 | -1.56 | 79477.00 |
| 541503.80 | 4068401.30 | 3.71 | 899.00 | -1.85 | 79479.00 |
| 541501.30 | 4068401.30 | 3.62 | 899.00 | -1.69 | 79481.00 |
| 541499.10 | 4068401.10 | 4.03 | 899.00 | -1.67 | 79483.00 |
| 541496.60 | 4068400.90 | 3.91 | 898.90 | -1.75 | 79497.00 |
| 541496.50 | 4068401.60 | 3.91 | 899.00 | -1.64 | 79499.00 |
| 541496.40 | 4068403.40 | 3.81 | 899.00 | -1.89 | 79501.00 |
| 541496.30 | 4068405.60 | 3.82 | 899.00 | -1.89 | 79503.00 |
| 541496.30 | 4068408.10 | 3.93 | 899.00 | -1.83 | 79505.00 |
| 541495.90 | 4068410.60 | 3.90 | 899.10 | -1.76 | 79507.00 |
| 541495.30 | 4068413.20 | 3.89 | 899.10 | -1.76 | 79509.00 |
| 541494.80 | 4068415.70 | 4.01 | 899.20 | -1.75 | 79511.00 |
| 541494.60 | 4068418.20 | 4.06 | 899.20 | -1.88 | 79513.00 |
| 541494.40 | 4068420.60 | 3.77 | 899.30 | -1.86 | 79515.00 |
| 541493.80 | 4068422.90 | 3.96 | 899.30 | -1.82 | 79517.00 |
| 541493.80 | 4068425.20 | 3.84 | 899.40 | -1.68 | 79519.00 |
| 541493.80 | 4068427.60 | 3.74 | 899.50 | -1.86 | 79521.00 |
| 541493.80 | 4068430.00 | 3.90 | 899.50 | -1.78 | 79523.00 |
| 541494.00 | 4068432.40 | 3.73 | 899.60 | -1.74 | 79525.00 |
| 541494.00 | 4068434.90 | 3.94 | 899.60 | -1.70 | 79527.00 |
| 541494.30 | 4068437.30 | 3.71 | 899.70 | -1.84 | 79529.00 |
| 541495.30 | 4068439.50 | 3.60 | 899.80 | -2.11 | 79531.00 |
| 541495.60 | 4068442.10 | 3.84 | 899.80 | -2.12 | 79533.00 |
| 541495.50 | 4068444.50 | 3.60 | 899.90 | -1.82 | 79535.00 |
| 541495.70 | 4068446.90 | 3.19 | 900.00 | -1.84 | 79537.00 |
| 541495.80 | 4068449.10 | 3.40 | 900.00 | -1.81 | 79539.00 |
| 541496.10 | 4068451.20 | 3.39 | 900.00 | -1.86 | 79541.00 |
| 541496.30 | 4068452.90 | 3.09 | 900.10 | -1.78 | 79557.00 |

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| 541496.80 | 4068452.80 | 2.81 | 900.10 | -1.59 | 79558.00 |
| 541497.80 | 4068452.90 | 3.45 | 900.10 | -1.77 | 79559.00 |
| 541500.20 | 4068452.30 | 4.27 | 900.20 | -1.69 | 79561.00 |
| 541502.60 | 4068451.80 | 4.14 | 900.20 | -1.73 | 79563.00 |
| 541505.00 | 4068452.00 | 3.49 | 900.30 | -1.89 | 79565.00 |
| 541507.60 | 4068451.80 | 3.31 | 900.40 | -1.78 | 79567.00 |
| 541510.10 | 4068452.20 | 3.39 | 900.40 | -1.74 | 79569.00 |
| 541512.60 | 4068452.50 | 3.42 | 900.50 | -1.71 | 79571.00 |
| 541515.10 | 4068452.60 | 3.38 | 900.50 | -1.65 | 79573.00 |
| 541517.70 | 4068452.70 | 3.22 | 900.50 | -1.73 | 79575.00 |
| 541520.40 | 4068452.90 | 3.17 | 900.50 | -1.78 | 79577.00 |
| 541523.00 | 4068453.00 | 3.23 | 900.50 | -1.78 | 79579.00 |
| 541525.50 | 4068452.40 | 3.27 | 900.50 | -1.85 | 79581.00 |
| 541528.00 | 4068451.60 | 3.22 | 900.50 | -1.96 | 79583.00 |
| 541530.50 | 4068451.30 | 3.14 | 900.40 | -1.95 | 79585.00 |
| 541533.00 | 4068451.40 | 3.31 | 900.30 | -1.79 | 79587.00 |
| 541535.80 | 4068451.30 | 3.15 | 900.20 | -1.68 | 79589.00 |
| 541538.50 | 4068451.50 | 2.91 | 900.20 | -1.75 | 79591.00 |
| 541541.00 | 4068451.20 | 2.73 | 900.20 | -1.79 | 79593.00 |
| 541543.30 | 4068450.50 | 3.15 | 900.10 | -1.75 | 79595.00 |
| 541546.00 | 4068450.90 | 3.44 | 900.00 | -1.77 | 79597.00 |
| 541548.50 | 4068451.20 | 3.12 | 900.00 | -1.60 | 79599.00 |
| 541551.00 | 4068451.30 | 3.43 | 900.20 | -1.62 | 79601.00 |
| 541553.50 | 4068451.00 | 3.83 | 900.30 | -1.51 | 79603.00 |
| 541556.10 | 4068451.50 | 3.73 | 900.50 | -1.73 | 79605.00 |
| 541558.70 | 4068451.30 | 3.72 | 900.60 | -1.77 | 79607.00 |
| 541561.30 | 4068451.30 | 3.42 | 900.70 | -1.68 | 79609.00 |
| 541563.80 | 4068450.50 | 3.77 | 900.70 | -1.73 | 79611.00 |
| 541566.40 | 4068449.90 | 3.87 | 900.70 | -1.75 | 79613.00 |
| 541568.90 | 4068450.00 | 3.46 | 900.70 | -1.66 | 79615.00 |
| 541571.50 | 4068450.30 | 3.21 | 900.70 | -1.79 | 79617.00 |
| 541574.20 | 4068450.80 | 3.55 | 900.70 | -1.76 | 79619.00 |
| 541576.60 | 4068451.60 | 3.14 | 900.70 | -1.88 | 79621.00 |
| 541579.00 | 4068450.90 | 2.88 | 900.70 | -1.84 | 79623.00 |
| 541581.20 | 4068449.30 | 2.75 | 900.70 | -2.14 | 79625.00 |
| 541583.80 | 4068449.50 | 2.87 | 900.60 | -1.59 | 79627.00 |
| 541586.70 | 4068450.20 | 2.48 | 900.50 | -1.59 | 79629.00 |
| 541588.90 | 4068450.60 | 2.49 | 900.80 | -1.64 | 79631.00 |
| 541591.30 | 4068450.90 | 2.37 | 900.90 | -1.88 | 79633.00 |
| 541593.50 | 4068450.50 | 2.53 | 900.80 | -1.86 | 79635.00 |
| 541596.20 | 4068450.30 | 2.69 | 900.70 | -1.57 | 79637.00 |
| 541598.80 | 4068450.80 | 2.38 | 900.90 | -1.61 | 79639.00 |
| 541601.30 | 4068451.30 | 2.48 | 901.00 | -1.63 | 79641.00 |
| 541603.70 | 4068451.70 | 2.26 | 901.20 | -1.65 | 79643.00 |
| 541606.20 | 4068452.30 | 2.53 | 901.30 | -1.71 | 79645.00 |
| 541608.70 | 4068452.40 | 2.57 | 901.40 | -1.75 | 79647.00 |
| 541611.10 | 4068452.70 | 2.55 | 901.40 | -1.78 | 79649.00 |
| 541613.70 | 4068452.70 | 2.75 | 901.30 | -1.64 | 79651.00 |
| 541616.30 | 4068452.60 | 2.58 | 901.40 | -1.75 | 79653.00 |
| 541618.70 | 4068452.40 | 2.47 | 901.50 | -1.75 | 79655.00 |
| 541621.20 | 4068452.00 | 2.57 | 901.50 | -1.57 | 79657.00 |
| 541623.70 | 4068452.30 | 2.34 | 901.60 | -1.71 | 79659.00 |
| 541626.20 | 4068452.30 | 2.15 | 901.60 | -1.74 | 79661.00 |
| 541628.70 | 4068452.20 | 2.20 | 901.60 | -1.85 | 79663.00 |
| 541631.00 | 4068451.70 | 2.27 | 901.50 | -1.79 | 79665.00 |
| 541633.80 | 4068451.60 | 2.46 | 901.30 | -1.80 | 79667.00 |
| 541636.40 | 4068451.90 | 2.51 | 901.30 | -1.92 | 79669.00 |

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|-----------|------------|------|--------|-------|----------|
| 541638.70 | 4068452.30 | 2.58 | 901.30 | -1.81 | 79671.00 |
| 541641.20 | 4068453.10 | 2.82 | 901.40 | -1.70 | 79673.00 |
| 541643.60 | 4068452.70 | 2.96 | 901.50 | -1.69 | 79675.00 |
| 541646.10 | 4068452.60 | 2.94 | 901.70 | -1.81 | 79677.00 |
| 541648.60 | 4068453.20 | 3.19 | 901.80 | -1.81 | 79679.00 |
| 541651.20 | 4068453.40 | 3.44 | 901.80 | -1.83 | 79681.00 |
| 541653.80 | 4068453.80 | 3.29 | 901.70 | -1.80 | 79683.00 |
| 541656.30 | 4068454.40 | 3.23 | 901.70 | -1.87 | 79685.00 |
| 541658.80 | 4068454.90 | 3.09 | 901.70 | -2.00 | 79687.00 |
| 541661.30 | 4068455.10 | 2.86 | 901.60 | -1.98 | 79689.00 |
| 541663.90 | 4068455.40 | 2.62 | 901.60 | -1.92 | 79691.00 |
| 541666.40 | 4068455.20 | 2.53 | 901.60 | -1.85 | 79693.00 |
| 541668.90 | 4068455.00 | 2.54 | 901.40 | -1.76 | 79695.00 |
| 541671.30 | 4068454.50 | 2.20 | 901.40 | -1.77 | 79697.00 |
| 541673.40 | 4068454.50 | 2.14 | 901.50 | -1.70 | 79699.00 |
| 541675.80 | 4068454.30 | 2.00 | 901.60 | -1.83 | 79701.00 |
| 541678.30 | 4068454.70 | 1.99 | 901.50 | -1.95 | 79703.00 |
| 541680.80 | 4068454.50 | 2.14 | 901.30 | -1.72 | 79705.00 |
| 541683.30 | 4068454.30 | 2.03 | 901.50 | -1.80 | 79707.00 |
| 541685.70 | 4068453.70 | 2.18 | 901.50 | -1.83 | 79709.00 |
| 541688.20 | 4068453.10 | 2.08 | 901.50 | -1.73 | 79711.00 |
| 541690.70 | 4068452.40 | 2.04 | 901.60 | -1.72 | 79713.00 |
| 541693.20 | 4068452.30 | 2.05 | 901.80 | -1.77 | 79715.00 |
| 541695.70 | 4068452.40 | 2.14 | 901.90 | -1.78 | 79717.00 |
| 541698.30 | 4068452.50 | 2.33 | 901.90 | -1.82 | 79719.00 |
| 541700.80 | 4068452.60 | 2.32 | 902.00 | -1.81 | 79721.00 |
| 541703.30 | 4068452.90 | 2.18 | 902.00 | -1.88 | 79723.00 |
| 541705.80 | 4068453.40 | 2.17 | 902.00 | -1.87 | 79725.00 |
| 541708.40 | 4068453.50 | 2.48 | 901.80 | -1.98 | 79727.00 |
| 541710.90 | 4068453.80 | 2.64 | 901.60 | -2.01 | 79729.00 |
| 541713.40 | 4068454.00 | 2.57 | 901.50 | -1.62 | 79731.00 |
| 541715.90 | 4068453.20 | 2.28 | 901.70 | -1.89 | 79733.00 |
| 541718.30 | 4068453.20 | 2.43 | 901.60 | -1.79 | 79735.00 |
| 541720.90 | 4068453.40 | 2.04 | 901.80 | -1.68 | 79737.00 |
| 541723.40 | 4068453.70 | 2.02 | 901.80 | -1.76 | 79739.00 |
| 541725.80 | 4068454.10 | 2.20 | 901.60 | -1.87 | 79741.00 |
| 541728.30 | 4068454.10 | 2.19 | 901.60 | -2.11 | 79743.00 |
| 541731.00 | 4068454.10 | 2.56 | 901.40 | -1.79 | 79745.00 |
| 541733.50 | 4068454.50 | 2.14 | 901.60 | -1.85 | 79747.00 |
| 541735.90 | 4068454.80 | 2.23 | 901.60 | -1.97 | 79749.00 |
| 541738.40 | 4068455.00 | 2.30 | 901.70 | -1.93 | 79751.00 |
| 541741.00 | 4068455.60 | 2.26 | 901.80 | -1.96 | 79753.00 |
| 541743.50 | 4068455.70 | 2.36 | 901.70 | -1.94 | 79755.00 |
| 541746.20 | 4068455.60 | 2.33 | 901.70 | -1.93 | 79757.00 |
| 541749.50 | 4068455.70 | 2.38 | 901.80 | -1.92 | 79759.50 |
| 541751.30 | 4068456.00 | 2.23 | 901.90 | -1.94 | 79761.00 |
| 541753.80 | 4068456.60 | 2.35 | 901.90 | -1.90 | 79763.00 |
| 541756.40 | 4068456.60 | 2.11 | 901.90 | -1.90 | 79765.00 |
| 541759.00 | 4068456.50 | 2.25 | 901.60 | -1.98 | 79767.00 |
| 541761.70 | 4068456.40 | 2.23 | 901.60 | -2.00 | 79769.00 |
| 541763.90 | 4068455.80 | 2.19 | 901.70 | -1.83 | 79771.00 |
| 541766.40 | 4068455.70 | 2.04 | 901.70 | -1.87 | 79773.00 |
| 541768.70 | 4068455.80 | 1.84 | 901.70 | -2.08 | 79775.00 |
| 541771.00 | 4068455.40 | 2.04 | 901.50 | -2.22 | 79777.00 |
| 541773.50 | 4068455.30 | 1.99 | 901.70 | -2.09 | 79779.00 |
| 541775.90 | 4068455.70 | 1.93 | 901.70 | -2.04 | 79781.00 |
| 541778.50 | 4068455.20 | 2.00 | 901.60 | -1.56 | 79783.00 |

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|-----------|------------|------|--------|-------|----------|
| 541781.10 | 4068455.00 | 1.76 | 901.90 | -1.92 | 79785.00 |
| 541783.30 | 4068455.20 | 1.83 | 901.90 | -1.96 | 79787.00 |
| 541785.70 | 4068455.60 | 2.17 | 902.10 | -2.09 | 79789.00 |
| 541787.70 | 4068455.90 | 2.75 | 902.00 | -2.13 | 79791.00 |
| 541789.80 | 4068456.20 | 3.71 | 901.80 | -2.03 | 79793.00 |
| 541792.00 | 4068456.50 | 3.50 | 901.90 | -1.79 | 79795.00 |
| 541793.80 | 4068456.60 | 2.03 | 902.40 | -1.93 | 79797.00 |
| 541795.70 | 4068456.40 | 2.07 | 902.70 | -1.98 | 79799.00 |
| 541797.80 | 4068456.10 | 4.82 | 902.80 | -2.07 | 79801.00 |
| 541800.00 | 4068456.20 | 4.40 | 902.90 | -1.98 | 79803.00 |
| 541802.30 | 4068455.90 | 4.33 | 903.10 | -2.08 | 79805.00 |
| 541804.40 | 4068455.30 | 3.90 | 903.20 | -2.02 | 79807.00 |
| 541806.80 | 4068455.50 | 3.18 | 903.20 | -2.08 | 79809.00 |
| 541809.10 | 4068455.30 | 4.02 | 903.30 | -2.07 | 79811.00 |
| 541811.60 | 4068455.00 | 3.64 | 903.30 | -2.07 | 79813.00 |
| 541814.10 | 4068455.20 | 3.29 | 903.10 | -2.04 | 79815.00 |
| 541816.50 | 4068455.30 | 2.99 | 903.10 | -2.09 | 79817.00 |
| 541818.90 | 4068455.50 | 2.31 | 903.10 | -2.07 | 79819.00 |
| 541821.30 | 4068455.80 | 2.76 | 903.00 | -2.13 | 79821.00 |
| 541823.50 | 4068456.40 | 2.45 | 902.80 | -2.24 | 79823.00 |
| 541825.90 | 4068456.70 | 2.71 | 902.50 | -2.21 | 79825.00 |
| 541828.40 | 4068457.10 | 3.60 | 902.40 | -1.88 | 79827.00 |
| 541830.60 | 4068456.90 | 3.21 | 902.70 | -1.57 | 79829.00 |
| 541833.00 | 4068457.40 | 1.90 | 903.00 | -2.01 | 79831.00 |
| 541835.50 | 4068457.70 | 2.67 | 903.00 | -1.93 | 79833.00 |
| 541837.90 | 4068458.10 | 4.45 | 903.10 | -1.94 | 79835.00 |
| 541840.20 | 4068458.40 | 3.41 | 903.20 | -1.97 | 79837.00 |
| 541842.50 | 4068459.00 | 3.53 | 903.30 | -2.12 | 79839.00 |
| 541844.60 | 4068459.70 | 3.31 | 903.50 | -2.10 | 79841.00 |
| 541847.00 | 4068459.80 | 2.83 | 903.60 | -2.35 | 79843.00 |
| 541849.20 | 4068459.50 | 2.81 | 903.70 | -2.62 | 79845.00 |
| 541851.30 | 4068459.60 | 3.44 | 903.90 | -2.74 | 79847.00 |
| 541853.10 | 4068459.50 | 3.91 | 903.90 | -2.61 | 79849.00 |
| 541855.20 | 4068458.70 | 3.51 | 903.30 | -2.40 | 79851.00 |
| 541856.90 | 4068457.80 | 3.31 | 903.60 | -2.32 | 79853.00 |
| 541858.70 | 4068457.80 | 3.35 | 903.90 | -2.34 | 79855.00 |
| 541860.40 | 4068457.90 | 3.24 | 904.20 | -2.37 | 79857.00 |
| 541862.40 | 4068457.80 | 3.44 | 904.40 | -2.57 | 79859.00 |
| 541864.60 | 4068457.80 | 3.50 | 904.40 | -2.46 | 79861.00 |
| 541866.80 | 4068458.20 | 3.74 | 904.50 | -2.45 | 79863.00 |
| 541869.20 | 4068458.10 | 4.12 | 904.50 | -2.43 | 79865.00 |
| 541871.40 | 4068458.20 | 4.55 | 904.70 | -2.44 | 79867.00 |
| 541873.50 | 4068458.50 | 5.01 | 904.80 | -2.46 | 79869.00 |
| 541875.80 | 4068458.70 | 5.20 | 904.80 | -2.45 | 79871.00 |
| 541877.90 | 4068459.00 | 5.06 | 904.80 | -2.46 | 79873.00 |
| 541880.20 | 4068459.10 | 5.22 | 904.90 | -2.52 | 79875.00 |
| 541882.60 | 4068459.30 | 5.15 | 904.90 | -2.51 | 79877.00 |
| 541884.80 | 4068459.50 | 5.58 | 904.90 | -2.53 | 79879.00 |
| 541886.80 | 4068459.60 | 6.20 | 905.00 | -2.46 | 79881.00 |
| 541889.10 | 4068458.80 | 5.98 | 905.00 | -2.75 | 79883.00 |
| 541891.60 | 4068458.70 | 4.75 | 905.00 | -2.56 | 79885.00 |
| 541894.10 | 4068458.40 | 5.57 | 904.90 | -2.60 | 79887.00 |
| 541896.40 | 4068458.10 | 5.60 | 904.90 | -2.58 | 79889.00 |
| 541898.70 | 4068457.50 | 5.53 | 904.80 | -2.68 | 79891.00 |
| 541900.80 | 4068457.10 | 5.32 | 904.60 | -3.51 | 79893.00 |
| 541903.00 | 4068457.40 | 5.60 | 904.70 | -2.30 | 79895.00 |
| 541905.50 | 4068456.70 | 5.22 | 904.80 | -2.23 | 79897.00 |

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| 541907.70 | 4068456.60 | 4.88 | 905.20 | -2.36 | 79899.00 |
| 541910.20 | 4068456.60 | 5.19 | 905.20 | -2.38 | 79901.00 |
| 541912.80 | 4068456.40 | 6.03 | 905.30 | -2.39 | 79903.00 |
| 541915.20 | 4068456.00 | 7.24 | 905.40 | -2.38 | 79905.00 |
| 541917.60 | 4068455.90 | 6.79 | 905.40 | -2.43 | 79907.00 |
| 541920.10 | 4068455.50 | 6.24 | 905.40 | -2.46 | 79909.00 |
| 541922.60 | 4068455.40 | 6.68 | 905.50 | -2.45 | 79911.00 |
| 541925.10 | 4068455.30 | 6.52 | 905.50 | -2.52 | 79913.00 |
| 541927.50 | 4068454.40 | 6.17 | 905.50 | -2.55 | 79915.00 |
| 541929.80 | 4068453.30 | 7.04 | 905.40 | -2.57 | 79917.00 |
| 541931.90 | 4068451.70 | 6.74 | 905.40 | -2.58 | 79919.00 |
| 541934.00 | 4068450.30 | 6.22 | 905.40 | -2.55 | 79921.00 |
| 541935.90 | 4068448.80 | 6.13 | 905.40 | -2.83 | 79923.00 |
| 541937.90 | 4068447.70 | 5.72 | 905.30 | -3.02 | 79925.00 |
| 541939.60 | 4068446.50 | 5.66 | 905.30 | -3.38 | 79927.00 |
| 541941.50 | 4068445.50 | 6.06 | 905.00 | -3.78 | 79929.00 |
| 541943.10 | 4068444.70 | 6.57 | 904.90 | -3.86 | 79931.00 |
| 541944.70 | 4068444.30 | 7.75 | 904.50 | -2.01 | 79933.00 |
| 541946.70 | 4068443.80 | 7.97 | 904.00 | -1.89 | 79935.00 |
| 541949.10 | 4068443.20 | 7.58 | 903.60 | -2.79 | 79937.00 |
| 541951.40 | 4068442.70 | 7.15 | 903.50 | -3.40 | 79939.00 |
| 541952.90 | 4068441.40 | 8.87 | 903.50 | -2.32 | 79941.00 |
| 541955.00 | 4068440.90 | 9.40 | 903.50 | -1.66 | 79943.00 |
| 541956.70 | 4068440.20 | 8.99 | 903.70 | -2.02 | 79945.00 |
| 541958.60 | 4068439.40 | 8.87 | 903.80 | -2.24 | 79947.00 |
| 541959.90 | 4068438.50 | 8.28 | 904.10 | -2.78 | 79949.00 |
| 541961.60 | 4068437.90 | 8.54 | 904.40 | -2.09 | 79951.00 |
| 541963.60 | 4068437.10 | 9.33 | 904.60 | -1.80 | 79953.00 |
| 541965.40 | 4068436.10 | 8.68 | 904.80 | -2.16 | 79955.00 |
| 541967.50 | 4068435.40 | 8.07 | 905.00 | -2.21 | 79957.00 |
| 541969.80 | 4068435.00 | 8.51 | 905.10 | -1.85 | 79959.00 |
| 541972.00 | 4068434.70 | 7.31 | 905.20 | -2.07 | 79961.00 |
| 541974.20 | 4068434.50 | 7.34 | 905.40 | -2.25 | 79963.00 |
| 541976.50 | 4068434.20 | 7.17 | 905.40 | -1.94 | 79965.00 |
| 541978.70 | 4068435.00 | 6.32 | 905.60 | -2.43 | 79967.00 |
| 541980.90 | 4068435.20 | 5.88 | 905.60 | -2.13 | 79969.00 |
| 541983.00 | 4068436.30 | 5.91 | 905.70 | -1.38 | 79971.00 |
| 541985.00 | 4068437.50 | 5.69 | 905.90 | -1.08 | 79973.00 |
| 541987.10 | 4068437.70 | 5.51 | 905.90 | -1.14 | 79975.00 |
| 541989.40 | 4068438.10 | 5.32 | 906.00 | -1.61 | 79977.00 |
| 541991.50 | 4068439.20 | 5.83 | 906.10 | -1.44 | 79979.00 |
| 541993.60 | 4068440.10 | 5.85 | 906.10 | -1.16 | 79981.00 |
| 541995.70 | 4068440.80 | 4.94 | 906.20 | -1.68 | 79983.00 |
| 541997.90 | 4068441.40 | 5.55 | 906.30 | -2.08 | 79985.00 |
| 541999.80 | 4068442.40 | 5.36 | 906.40 | -1.91 | 79987.00 |
| 542001.70 | 4068444.00 | 5.43 | 906.40 | -1.59 | 79989.00 |
| 542003.90 | 4068445.00 | 4.20 | 906.60 | -1.99 | 79991.00 |
| 542005.50 | 4068446.60 | 4.56 | 906.60 | -1.08 | 79993.00 |
| 542007.40 | 4068448.30 | 4.73 | 906.60 | -1.08 | 79995.00 |
| 542009.80 | 4068449.40 | 5.38 | 906.60 | -1.08 | 79997.00 |
| 542012.00 | 4068450.50 | 5.91 | 906.60 | -1.45 | 79999.00 |
| 542014.30 | 4068451.40 | 6.75 | 906.60 | -1.96 | 80001.00 |
| 542016.60 | 4068452.30 | 8.38 | 906.70 | -2.86 | 80003.00 |
| 542018.60 | 4068453.80 | 9.98 | 906.70 | -3.03 | 80005.00 |
| 542020.80 | 4068454.90 | 9.98 | 906.70 | -2.59 | 80007.00 |
| 542023.10 | 4068455.20 | 10.50 | 906.80 | -2.75 | 80009.00 |
| 542025.40 | 4068455.50 | 9.40 | 906.80 | -2.85 | 80011.00 |

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| 542027.90 | 4068455.40 | 7.37 | 906.90 | -2.53 | 80013.00 |
| 542030.20 | 4068455.30 | 6.98 | 906.80 | -2.06 | 80015.00 |
| 542032.70 | 4068454.70 | 5.86 | 906.90 | -1.82 | 80017.00 |
| 542035.30 | 4068454.00 | 5.67 | 907.00 | -2.03 | 80019.00 |
| 542037.90 | 4068454.50 | 6.19 | 907.10 | -2.08 | 80021.00 |
| 542040.20 | 4068455.50 | 6.03 | 907.20 | -2.17 | 80023.00 |
| 542042.60 | 4068455.40 | 5.46 | 907.30 | -2.25 | 80025.00 |
| 542044.90 | 4068454.20 | 5.69 | 907.40 | -2.04 | 80027.00 |
| 542047.40 | 4068453.60 | 6.45 | 907.40 | -1.75 | 80029.00 |
| 542049.90 | 4068453.50 | 6.01 | 907.60 | -2.08 | 80031.00 |
| 542052.40 | 4068453.60 | 6.53 | 907.60 | -2.67 | 80033.00 |
| 542054.90 | 4068453.80 | 5.76 | 907.70 | -3.02 | 80035.00 |
| 542057.40 | 4068453.80 | 5.77 | 907.80 | -2.37 | 80037.00 |
| 542059.60 | 4068454.40 | 7.57 | 907.80 | -1.47 | 80039.00 |
| 542061.90 | 4068454.90 | 6.54 | 907.90 | -2.16 | 80041.00 |
| 542064.30 | 4068454.60 | 7.57 | 908.00 | -2.08 | 80043.00 |
| 542066.70 | 4068454.60 | 5.96 | 908.10 | -1.61 | 80045.00 |
| 542069.20 | 4068454.90 | 5.53 | 908.20 | -2.12 | 80047.00 |
| 542071.60 | 4068455.50 | 6.51 | 908.20 | -2.15 | 80049.00 |
| 542074.10 | 4068455.90 | 5.62 | 908.20 | -1.88 | 80051.00 |
| 542076.60 | 4068456.30 | 5.66 | 908.40 | -1.80 | 80053.00 |
| 542079.10 | 4068456.10 | 6.49 | 908.40 | -1.50 | 80055.00 |
| 542081.40 | 4068456.40 | 6.25 | 908.40 | -1.16 | 80057.00 |
| 542083.90 | 4068456.30 | 6.56 | 908.50 | -1.21 | 80059.00 |
| 542086.40 | 4068456.30 | 7.28 | 908.60 | -1.15 | 80061.00 |
| 542088.80 | 4068456.40 | 8.04 | 908.60 | -1.49 | 80063.00 |
| 542091.30 | 4068456.20 | 7.99 | 908.70 | -1.78 | 80065.00 |
| 542093.70 | 4068456.10 | 7.73 | 908.60 | -2.09 | 80067.00 |
| 542096.10 | 4068456.60 | 7.92 | 908.70 | -1.66 | 80069.00 |
| 542098.30 | 4068456.90 | 8.54 | 908.80 | -1.71 | 80071.00 |
| 542100.30 | 4068456.90 | 8.94 | 908.80 | -2.61 | 80073.00 |
| 542101.40 | 4068457.00 | 8.59 | 908.90 | -2.58 | 80074.00 |
| 542105.10 | 4068488.00 | 8.89 | 909.20 | -2.79 | 80117.00 |
| 542105.40 | 4068489.20 | 8.39 | 909.20 | -2.68 | 80118.00 |
| 542105.80 | 4068490.40 | 8.08 | 909.20 | -1.63 | 80119.00 |
| 542106.30 | 4068491.50 | 9.02 | 909.20 | -1.52 | 80120.00 |
| 542106.70 | 4068492.50 | 8.67 | 909.30 | -1.78 | 80121.00 |
| 542106.80 | 4068493.70 | 8.41 | 909.30 | -1.70 | 80122.00 |
| 542106.80 | 4068494.90 | 8.29 | 909.30 | -2.10 | 80123.00 |
| 542106.70 | 4068496.00 | 7.78 | 909.30 | -3.02 | 80124.00 |
| 542106.90 | 4068497.30 | 11.16 | 909.30 | -3.08 | 80125.00 |
| 542107.20 | 4068498.40 | 11.38 | 909.40 | -2.36 | 80126.00 |
| 542107.40 | 4068499.40 | 8.84 | 909.50 | -2.49 | 80127.00 |
| 542107.50 | 4068500.40 | 9.06 | 909.50 | -2.82 | 80128.00 |
| 542107.60 | 4068502.60 | 9.70 | 909.50 | -2.69 | 80144.00 |
| 542107.50 | 4068502.60 | 9.47 | 909.50 | -2.53 | 80145.00 |
| 542107.30 | 4068502.70 | 9.15 | 909.50 | -2.49 | 80146.00 |
| 542106.50 | 4068502.80 | 8.59 | 909.50 | -2.47 | 80147.00 |
| 542105.40 | 4068502.80 | 9.21 | 909.40 | -2.09 | 80148.00 |
| 542104.20 | 4068502.80 | 8.63 | 909.40 | -2.38 | 80149.00 |
| 542102.90 | 4068502.60 | 9.23 | 909.40 | -2.21 | 80150.00 |
| 542101.70 | 4068502.30 | 8.90 | 909.40 | -2.34 | 80151.00 |
| 542100.40 | 4068502.10 | 8.60 | 909.30 | -2.21 | 80152.00 |
| 542099.10 | 4068502.10 | 8.93 | 909.30 | -2.26 | 80153.00 |
| 542097.80 | 4068502.10 | 9.49 | 909.30 | -2.29 | 80154.00 |
| 542096.50 | 4068502.10 | 9.72 | 909.20 | -2.16 | 80155.00 |
| 542095.30 | 4068502.10 | 10.32 | 909.20 | -2.22 | 80156.00 |

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| 542094.00 | 4068502.10 | 10.44 | 909.20 | -2.24 | 80157.00 |
| 542092.80 | 4068502.10 | 10.13 | 909.20 | -2.21 | 80158.00 |
| 542091.40 | 4068502.10 | 9.98 | 909.20 | -2.21 | 80159.00 |
| 542088.90 | 4068502.10 | 9.53 | 909.10 | -2.30 | 80161.00 |
| 542086.40 | 4068502.40 | 9.84 | 909.00 | -2.40 | 80163.00 |
| 542083.70 | 4068502.40 | 10.22 | 908.90 | -2.38 | 80165.00 |
| 542081.20 | 4068502.20 | 10.11 | 908.90 | -2.44 | 80167.00 |
| 542078.70 | 4068502.40 | 9.86 | 908.90 | -2.61 | 80169.00 |
| 542076.20 | 4068502.10 | 9.97 | 908.80 | -2.61 | 80171.00 |
| 542073.80 | 4068502.80 | 9.73 | 908.80 | -2.96 | 80173.00 |
| 542071.40 | 4068502.50 | 10.24 | 908.70 | -2.81 | 80175.00 |
| 542068.90 | 4068502.70 | 9.56 | 908.70 | -2.81 | 80177.00 |
| 542066.40 | 4068502.40 | 9.28 | 908.60 | -2.75 | 80179.00 |
| 542063.70 | 4068502.20 | 9.20 | 908.40 | -2.56 | 80181.00 |
| 542061.10 | 4068502.00 | 9.43 | 908.40 | -2.45 | 80183.00 |
| 542058.40 | 4068501.90 | 9.00 | 908.40 | -2.36 | 80185.00 |
| 542056.00 | 4068501.50 | 9.12 | 908.30 | -2.43 | 80187.00 |
| 542053.40 | 4068501.30 | 9.07 | 908.10 | -2.48 | 80189.00 |
| 542051.00 | 4068500.80 | 8.87 | 908.10 | -2.50 | 80191.00 |
| 542048.50 | 4068500.60 | 9.16 | 908.00 | -2.55 | 80193.00 |
| 542045.90 | 4068500.40 | 9.20 | 907.80 | -2.76 | 80195.00 |
| 542043.30 | 4068500.30 | 9.15 | 907.50 | -2.75 | 80197.00 |
| 542040.70 | 4068500.80 | 8.28 | 907.50 | -2.48 | 80199.00 |
| 542038.50 | 4068500.30 | 7.36 | 907.60 | -2.53 | 80201.00 |
| 542036.60 | 4068498.70 | 7.18 | 907.60 | -2.88 | 80203.00 |
| 542034.40 | 4068498.20 | 6.91 | 907.60 | -2.93 | 80205.00 |
| 542031.80 | 4068497.70 | 6.71 | 907.60 | -3.17 | 80207.00 |
| 542029.40 | 4068497.50 | 6.69 | 907.50 | -3.09 | 80209.00 |
| 542027.10 | 4068496.80 | 6.23 | 907.40 | -3.13 | 80211.00 |
| 542025.00 | 4068496.60 | 6.51 | 907.10 | -3.32 | 80213.00 |
| 542022.80 | 4068497.00 | 7.21 | 906.90 | -3.35 | 80215.00 |
| 542020.60 | 4068497.30 | 6.46 | 906.70 | -3.43 | 80217.00 |
| 542018.30 | 4068498.10 | 5.68 | 906.60 | -3.54 | 80219.00 |
| 542016.40 | 4068498.70 | 5.96 | 906.50 | -3.92 | 80221.00 |
| 542014.70 | 4068499.00 | 7.12 | 906.10 | -3.37 | 80223.00 |
| 542012.40 | 4068499.50 | 7.25 | 905.70 | -2.22 | 80225.00 |
| 542010.40 | 4068500.40 | 6.70 | 905.80 | -2.63 | 80227.00 |
| 542008.90 | 4068501.30 | 7.03 | 905.50 | -1.79 | 80229.00 |
| 542007.50 | 4068502.40 | 7.47 | 905.20 | -1.38 | 80231.00 |
| 542006.40 | 4068503.80 | 6.29 | 905.30 | -5.92 | 80233.00 |
| 542004.90 | 4068505.20 | 7.56 | 905.90 | -3.17 | 80235.00 |
| 542003.90 | 4068505.90 | 6.92 | 906.40 | -3.97 | 80237.00 |
| 542002.80 | 4068507.00 | 6.87 | 906.80 | -3.74 | 80239.00 |
| 542001.90 | 4068507.70 | 5.67 | 907.30 | -3.23 | 80241.00 |
| 542000.30 | 4068508.20 | 4.57 | 907.50 | -2.91 | 80243.00 |
| 541998.80 | 4068507.90 | 5.68 | 907.60 | -2.36 | 80245.00 |
| 541997.20 | 4068507.80 | 6.34 | 907.60 | -2.52 | 80247.00 |
| 541995.00 | 4068507.40 | 5.92 | 907.60 | -2.45 | 80249.00 |
| 541992.80 | 4068506.50 | 6.00 | 907.70 | -2.46 | 80251.00 |
| 541990.50 | 4068506.00 | 6.39 | 907.60 | -2.34 | 80253.00 |
| 541988.20 | 4068505.20 | 7.13 | 907.60 | -2.32 | 80255.00 |
| 541985.90 | 4068504.40 | 6.36 | 907.50 | -2.37 | 80257.00 |
| 541983.80 | 4068503.10 | 6.44 | 907.40 | -2.40 | 80259.00 |
| 541981.70 | 4068501.70 | 7.42 | 907.40 | -2.27 | 80261.00 |
| 541979.50 | 4068500.40 | 6.20 | 907.40 | -2.23 | 80263.00 |
| 541976.80 | 4068500.00 | 7.10 | 907.30 | -2.36 | 80265.00 |
| 541974.10 | 4068499.90 | 5.87 | 907.20 | -2.35 | 80267.00 |

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| 541971.60 | 4068500.00 | 5.90 | 907.20 | -2.35 | 80269.00 |
| 541969.00 | 4068500.10 | 6.55 | 907.20 | -2.31 | 80271.00 |
| 541966.50 | 4068499.70 | 6.17 | 907.10 | -2.43 | 80273.00 |
| 541964.10 | 4068500.00 | 5.45 | 907.10 | -2.37 | 80275.00 |
| 541961.50 | 4068500.30 | 5.29 | 907.10 | -2.35 | 80277.00 |
| 541959.10 | 4068500.50 | 6.22 | 907.10 | -2.44 | 80279.00 |
| 541956.60 | 4068500.70 | 6.76 | 907.00 | -2.42 | 80281.00 |
| 541954.20 | 4068500.90 | 6.45 | 907.00 | -2.44 | 80283.00 |
| 541951.80 | 4068500.50 | 6.01 | 906.90 | -2.45 | 80285.00 |
| 541949.40 | 4068499.90 | 6.05 | 906.80 | -2.48 | 80287.00 |
| 541947.00 | 4068499.50 | 6.60 | 906.70 | -2.45 | 80289.00 |
| 541944.60 | 4068498.90 | 6.34 | 906.70 | -2.45 | 80291.00 |
| 541942.30 | 4068498.20 | 6.31 | 906.60 | -2.46 | 80293.00 |
| 541939.90 | 4068497.70 | 5.96 | 906.50 | -2.41 | 80295.00 |
| 541937.40 | 4068498.20 | 6.84 | 906.50 | -2.59 | 80297.00 |
| 541935.10 | 4068498.90 | 6.98 | 906.40 | -2.64 | 80299.00 |
| 541932.70 | 4068499.10 | 4.14 | 906.40 | -2.62 | 80301.00 |
| 541930.30 | 4068499.20 | 5.01 | 906.30 | -2.59 | 80303.00 |
| 541928.10 | 4068499.50 | 6.21 | 906.20 | -2.61 | 80305.00 |
| 541925.80 | 4068499.80 | 5.63 | 906.10 | -2.77 | 80307.00 |
| 541923.60 | 4068500.80 | 5.90 | 905.90 | -2.56 | 80309.00 |
| 541921.20 | 4068500.90 | 5.66 | 905.90 | -2.36 | 80311.00 |
| 541918.90 | 4068501.20 | 5.26 | 906.00 | -2.43 | 80313.00 |
| 541916.60 | 4068501.20 | 4.53 | 906.10 | -2.46 | 80315.00 |
| 541914.20 | 4068501.40 | 5.51 | 906.20 | -2.45 | 80317.00 |
| 541911.60 | 4068501.50 | 5.27 | 906.10 | -2.52 | 80319.00 |
| 541909.10 | 4068501.50 | 6.69 | 906.20 | -2.51 | 80321.00 |
| 541906.60 | 4068501.20 | 6.28 | 906.10 | -2.60 | 80323.00 |
| 541904.20 | 4068500.50 | 6.87 | 906.10 | -2.53 | 80325.00 |
| 541901.70 | 4068500.00 | 6.03 | 906.00 | -2.58 | 80327.00 |
| 541899.30 | 4068499.50 | 6.19 | 906.00 | -2.54 | 80329.00 |
| 541896.90 | 4068499.00 | 6.30 | 905.80 | -2.58 | 80331.00 |
| 541894.60 | 4068498.50 | 5.19 | 905.80 | -2.63 | 80333.00 |
| 541892.20 | 4068498.00 | 5.31 | 905.70 | -2.29 | 80335.00 |
| 541890.10 | 4068497.80 | 4.83 | 905.50 | -2.46 | 80337.00 |
| 541887.70 | 4068497.90 | 5.37 | 905.50 | -2.52 | 80339.00 |
| 541885.40 | 4068497.40 | 4.60 | 905.50 | -2.31 | 80341.00 |
| 541883.30 | 4068497.00 | 4.81 | 905.70 | -2.31 | 80343.00 |
| 541881.20 | 4068496.20 | 5.63 | 905.70 | -2.28 | 80345.00 |
| 541878.90 | 4068495.90 | 4.69 | 905.70 | -2.40 | 80347.00 |
| 541876.40 | 4068495.70 | 4.62 | 905.60 | -2.46 | 80349.00 |
| 541874.00 | 4068495.40 | 5.17 | 905.60 | -2.37 | 80351.00 |
| 541871.80 | 4068495.50 | 4.47 | 905.50 | -2.55 | 80353.00 |
| 541869.40 | 4068495.50 | 4.11 | 905.50 | -2.40 | 80355.00 |
| 541867.00 | 4068495.50 | 3.88 | 905.50 | -2.41 | 80357.00 |
| 541864.80 | 4068496.30 | 4.11 | 905.40 | -2.30 | 80359.00 |
| 541862.40 | 4068496.80 | 4.36 | 905.20 | -2.37 | 80361.00 |
| 541860.40 | 4068498.30 | 5.17 | 905.10 | -2.28 | 80363.00 |
| 541858.90 | 4068500.20 | 4.59 | 905.10 | -2.34 | 80365.00 |
| 541856.80 | 4068501.00 | 4.93 | 904.80 | -2.27 | 80367.00 |
| 541854.40 | 4068501.30 | 4.21 | 904.70 | -2.05 | 80369.00 |
| 541852.20 | 4068501.50 | 4.59 | 904.60 | -2.16 | 80371.00 |
| 541850.00 | 4068502.50 | 4.36 | 904.50 | -2.17 | 80373.00 |
| 541847.70 | 4068502.60 | 2.78 | 904.30 | -2.04 | 80375.00 |
| 541845.30 | 4068502.80 | 2.95 | 904.10 | -2.06 | 80377.00 |
| 541842.80 | 4068503.00 | 2.98 | 904.00 | -2.06 | 80379.00 |
| 541840.30 | 4068502.50 | 2.29 | 904.00 | -2.04 | 80381.00 |

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| 541837.90 | 4068501.90 | 2.20 | 904.00 | -2.12 | 80383.00 |
| 541835.60 | 4068501.50 | 1.89 | 904.10 | -2.13 | 80385.00 |
| 541833.10 | 4068501.80 | 1.95 | 904.10 | -2.00 | 80387.00 |
| 541830.70 | 4068502.30 | 2.18 | 904.10 | -2.14 | 80389.00 |
| 541828.20 | 4068502.00 | 2.31 | 904.10 | -2.06 | 80391.00 |
| 541825.80 | 4068501.80 | 2.22 | 904.10 | -2.08 | 80393.00 |
| 541823.50 | 4068502.00 | 2.53 | 904.10 | -2.08 | 80395.00 |
| 541820.80 | 4068502.00 | 2.51 | 904.20 | -2.08 | 80397.00 |
| 541818.50 | 4068502.60 | 2.48 | 904.10 | -2.05 | 80399.00 |
| 541816.30 | 4068503.70 | 2.53 | 904.10 | -2.10 | 80401.00 |
| 541814.00 | 4068503.80 | 2.26 | 904.10 | -2.04 | 80403.00 |
| 541812.10 | 4068503.20 | 1.96 | 903.90 | -2.21 | 80405.00 |
| 541810.30 | 4068503.50 | 2.02 | 903.60 | -2.38 | 80407.00 |
| 541808.90 | 4068503.50 | 2.91 | 903.10 | -2.04 | 80409.00 |
| 541806.30 | 4068504.40 | 2.61 | 902.80 | -1.64 | 80411.00 |
| 541804.90 | 4068505.50 | 1.90 | 903.20 | -1.84 | 80413.00 |
| 541803.20 | 4068506.90 | 2.04 | 903.30 | -1.81 | 80415.00 |
| 541801.00 | 4068506.80 | 1.61 | 903.30 | -1.88 | 80417.00 |
| 541798.70 | 4068507.20 | 2.08 | 903.40 | -1.96 | 80419.00 |
| 541796.40 | 4068507.20 | 2.06 | 903.30 | -1.82 | 80421.00 |
| 541793.80 | 4068506.90 | 2.19 | 903.20 | -1.80 | 80423.00 |
| 541791.70 | 4068505.80 | 2.33 | 903.30 | -1.71 | 80425.00 |
| 541789.50 | 4068504.80 | 1.81 | 903.40 | -1.84 | 80427.00 |
| 541787.20 | 4068504.20 | 2.05 | 903.50 | -1.86 | 80429.00 |
| 541785.00 | 4068503.60 | 2.13 | 903.30 | -1.89 | 80431.00 |
| 541782.60 | 4068503.10 | 2.14 | 903.20 | -1.96 | 80433.00 |
| 541780.20 | 4068502.50 | 2.52 | 903.00 | -1.81 | 80435.00 |
| 541777.80 | 4068501.90 | 2.12 | 903.20 | -1.76 | 80437.00 |
| 541775.80 | 4068501.90 | 1.76 | 903.30 | -1.78 | 80439.00 |
| 541773.70 | 4068502.40 | 2.01 | 903.20 | -1.81 | 80441.00 |
| 541771.10 | 4068502.30 | 2.21 | 903.00 | -1.92 | 80443.00 |
| 541768.90 | 4068501.80 | 1.93 | 903.00 | -2.05 | 80445.00 |
| 541766.20 | 4068501.90 | 1.84 | 902.70 | -1.96 | 80447.00 |
| 541764.00 | 4068502.70 | 2.16 | 902.90 | -2.03 | 80449.00 |
| 541761.60 | 4068502.90 | 1.93 | 903.00 | -2.05 | 80451.00 |
| 541759.10 | 4068502.90 | 1.80 | 902.90 | -1.98 | 80453.00 |
| 541756.80 | 4068502.70 | 1.93 | 903.00 | -1.94 | 80455.00 |
| 541754.30 | 4068502.30 | 1.72 | 902.90 | -1.98 | 80457.00 |
| 541751.70 | 4068501.90 | 1.75 | 903.00 | -1.85 | 80459.00 |
| 541749.60 | 4068501.70 | 1.14 | 903.10 | -1.86 | 80461.00 |
| 541747.20 | 4068501.40 | 1.52 | 903.20 | -1.93 | 80463.00 |
| 541744.80 | 4068501.10 | 1.67 | 903.20 | -1.87 | 80465.00 |
| 541742.20 | 4068500.90 | 1.67 | 903.10 | -1.93 | 80467.00 |
| 541739.70 | 4068500.60 | 1.76 | 903.10 | -2.02 | 80469.00 |
| 541737.30 | 4068500.10 | 1.80 | 903.10 | -2.03 | 80471.00 |
| 541734.80 | 4068499.70 | 1.89 | 903.00 | -1.89 | 80473.00 |
| 541732.40 | 4068499.70 | 1.83 | 903.00 | -2.09 | 80475.00 |
| 541729.90 | 4068500.00 | 2.19 | 902.80 | -1.69 | 80477.00 |
| 541727.40 | 4068500.40 | 2.01 | 902.90 | -1.70 | 80479.00 |
| 541725.30 | 4068500.00 | 1.91 | 903.10 | -1.90 | 80481.00 |
| 541722.80 | 4068500.10 | 2.32 | 903.00 | -2.01 | 80483.00 |
| 541720.40 | 4068500.30 | 2.04 | 903.10 | -2.00 | 80485.00 |
| 541718.00 | 4068500.40 | 2.14 | 903.00 | -2.07 | 80487.00 |
| 541715.50 | 4068500.50 | 2.22 | 903.00 | -2.00 | 80489.00 |
| 541712.90 | 4068500.30 | 1.98 | 903.10 | -1.95 | 80491.00 |
| 541710.60 | 4068499.60 | 2.27 | 903.10 | -1.93 | 80493.00 |
| 541708.20 | 4068499.60 | 1.96 | 903.20 | -1.90 | 80495.00 |

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| 541706.00 | 4068500.10 | 2.09 | 903.20 | -1.82 | 80497.00 |
| 541703.60 | 4068500.30 | 2.24 | 903.10 | -1.84 | 80499.00 |
| 541701.00 | 4068500.30 | 2.49 | 902.90 | -1.81 | 80501.00 |
| 541698.50 | 4068500.40 | 2.41 | 902.90 | -1.80 | 80503.00 |
| 541696.10 | 4068500.00 | 2.38 | 903.00 | -1.90 | 80505.00 |
| 541693.80 | 4068500.10 | 2.19 | 903.20 | -1.84 | 80507.00 |
| 541691.30 | 4068499.90 | 2.10 | 903.10 | -1.94 | 80509.00 |
| 541689.20 | 4068499.50 | 2.01 | 903.00 | -1.94 | 80511.00 |
| 541686.90 | 4068500.10 | 2.20 | 902.70 | -1.86 | 80513.00 |
| 541684.50 | 4068500.20 | 2.23 | 902.80 | -2.09 | 80515.00 |
| 541682.30 | 4068500.60 | 2.40 | 902.70 | -1.81 | 80517.00 |
| 541680.00 | 4068500.00 | 2.29 | 902.50 | -1.76 | 80519.00 |
| 541677.70 | 4068499.80 | 2.33 | 902.60 | -1.84 | 80521.00 |
| 541675.40 | 4068500.00 | 2.65 | 902.60 | -1.73 | 80523.00 |
| 541672.80 | 4068500.30 | 2.40 | 902.70 | -1.81 | 80525.00 |
| 541670.80 | 4068499.60 | 2.34 | 902.70 | -1.92 | 80527.00 |
| 541668.50 | 4068499.20 | 2.43 | 902.90 | -1.86 | 80529.00 |
| 541666.10 | 4068499.10 | 2.53 | 902.80 | -1.73 | 80531.00 |
| 541663.80 | 4068498.80 | 2.95 | 903.00 | -1.73 | 80533.00 |
| 541661.40 | 4068498.80 | 2.24 | 903.00 | -1.85 | 80535.00 |
| 541659.10 | 4068498.90 | 2.17 | 903.00 | -1.90 | 80537.00 |
| 541656.70 | 4068498.90 | 2.52 | 902.90 | -2.11 | 80539.00 |
| 541654.40 | 4068498.50 | 3.07 | 902.60 | -1.94 | 80541.00 |
| 541651.90 | 4068498.00 | 2.50 | 902.50 | -1.76 | 80543.00 |
| 541649.60 | 4068498.00 | 2.15 | 902.80 | -1.75 | 80545.00 |
| 541647.30 | 4068497.70 | 2.11 | 902.80 | -1.90 | 80547.00 |
| 541645.10 | 4068497.70 | 2.15 | 902.80 | -1.98 | 80549.00 |
| 541642.50 | 4068497.90 | 2.24 | 902.60 | -1.85 | 80551.00 |
| 541640.30 | 4068497.70 | 2.04 | 902.80 | -1.82 | 80553.00 |
| 541637.90 | 4068497.60 | 1.98 | 902.80 | -1.81 | 80555.00 |
| 541635.60 | 4068497.50 | 2.03 | 903.00 | -1.94 | 80557.00 |
| 541633.30 | 4068497.00 | 2.18 | 902.90 | -1.80 | 80559.00 |
| 541630.90 | 4068496.70 | 2.43 | 902.80 | -1.94 | 80561.00 |
| 541628.40 | 4068496.50 | 2.34 | 902.70 | -1.83 | 80563.00 |
| 541626.00 | 4068496.20 | 2.37 | 902.60 | -1.94 | 80565.00 |
| 541623.60 | 4068496.20 | 2.89 | 902.50 | -1.80 | 80567.00 |
| 541621.20 | 4068495.90 | 3.31 | 902.30 | -1.71 | 80569.00 |
| 541618.70 | 4068496.50 | 3.46 | 902.30 | -1.75 | 80571.00 |
| 541616.80 | 4068496.90 | 3.22 | 902.60 | -1.88 | 80573.00 |
| 541614.50 | 4068496.80 | 3.05 | 902.60 | -1.81 | 80575.00 |
| 541612.00 | 4068496.80 | 3.45 | 902.70 | -1.86 | 80577.00 |
| 541609.60 | 4068497.10 | 3.96 | 902.70 | -1.84 | 80579.00 |
| 541607.10 | 4068497.40 | 3.73 | 902.70 | -1.82 | 80581.00 |
| 541604.60 | 4068497.20 | 3.79 | 902.60 | -1.88 | 80583.00 |
| 541602.20 | 4068497.50 | 4.08 | 902.60 | -1.91 | 80585.00 |
| 541600.00 | 4068498.10 | 3.91 | 902.60 | -1.99 | 80587.00 |
| 541597.50 | 4068498.20 | 3.53 | 902.50 | -1.89 | 80589.00 |
| 541595.10 | 4068498.00 | 3.44 | 902.50 | -1.87 | 80591.00 |
| 541592.60 | 4068498.00 | 3.65 | 902.40 | -2.09 | 80593.00 |
| 541590.60 | 4068499.20 | 3.31 | 902.30 | -2.01 | 80595.00 |
| 541587.90 | 4068499.60 | 3.29 | 902.10 | -2.04 | 80597.00 |
| 541585.20 | 4068500.10 | 3.16 | 902.00 | -1.92 | 80599.00 |
| 541582.60 | 4068499.80 | 3.00 | 901.90 | -1.95 | 80601.00 |
| 541580.20 | 4068500.40 | 3.41 | 901.80 | -1.88 | 80603.00 |
| 541577.40 | 4068500.90 | 3.06 | 901.70 | -1.82 | 80605.00 |
| 541575.00 | 4068500.70 | 2.88 | 902.00 | -1.70 | 80607.00 |
| 541572.60 | 4068500.70 | 2.74 | 902.00 | -1.87 | 80609.00 |

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| 541570.20 | 4068501.00 | 3.18 | 901.90 | -1.93 | 80611.00 |
| 541567.40 | 4068501.30 | 3.31 | 901.90 | -1.87 | 80613.00 |
| 541564.90 | 4068501.90 | 2.85 | 901.90 | -1.97 | 80615.00 |
| 541562.50 | 4068502.20 | 3.32 | 901.90 | -1.89 | 80617.00 |
| 541560.10 | 4068502.30 | 3.37 | 901.90 | -1.97 | 80619.00 |
| 541557.70 | 4068502.70 | 3.35 | 901.90 | -1.81 | 80621.00 |
| 541555.40 | 4068503.20 | 3.02 | 901.90 | -1.91 | 80623.00 |
| 541552.90 | 4068503.50 | 2.79 | 902.00 | -1.96 | 80625.00 |
| 541550.30 | 4068503.70 | 2.98 | 902.00 | -1.89 | 80627.00 |
| 541547.80 | 4068504.20 | 3.11 | 902.00 | -1.97 | 80629.00 |
| 541545.30 | 4068504.40 | 3.13 | 902.00 | -1.87 | 80631.00 |
| 541542.80 | 4068504.30 | 2.81 | 902.00 | -1.87 | 80633.00 |
| 541540.40 | 4068504.90 | 3.24 | 902.10 | -1.86 | 80635.00 |
| 541537.90 | 4068505.20 | 3.32 | 902.10 | -1.91 | 80637.00 |
| 541535.40 | 4068505.70 | 3.06 | 902.00 | -1.80 | 80639.00 |
| 541532.70 | 4068505.60 | 3.21 | 902.00 | -1.86 | 80641.00 |
| 541530.30 | 4068506.00 | 3.08 | 901.90 | -1.75 | 80643.00 |
| 541527.80 | 4068506.20 | 3.12 | 901.90 | -1.95 | 80645.00 |
| 541525.30 | 4068506.00 | 3.15 | 901.70 | -2.14 | 80647.00 |
| 541523.00 | 4068505.40 | 2.78 | 901.70 | -2.19 | 80649.00 |
| 541520.50 | 4068505.70 | 3.10 | 901.70 | -2.06 | 80651.00 |
| 541518.10 | 4068506.10 | 3.27 | 901.60 | -1.88 | 80653.00 |
| 541515.50 | 4068506.20 | 3.04 | 901.60 | -1.97 | 80655.00 |
| 541513.10 | 4068506.60 | 3.20 | 901.60 | -1.93 | 80657.00 |
| 541510.60 | 4068506.90 | 3.10 | 901.70 | -1.90 | 80659.00 |
| 541508.10 | 4068507.00 | 3.34 | 901.60 | -1.92 | 80661.00 |
| 541505.90 | 4068507.50 | 3.09 | 901.70 | -1.82 | 80663.00 |
| 541504.70 | 4068507.50 | 3.29 | 901.70 | -1.87 | 80664.00 |
| 541501.40 | 4068508.20 | 3.60 | 901.70 | -1.92 | 80667.00 |
| 541499.10 | 4068508.80 | 3.65 | 901.60 | -1.83 | 80669.00 |
| 541494.90 | 4068510.90 | 3.17 | 901.60 | -1.86 | 80794.50 |
| 541495.00 | 4068510.90 | 3.22 | 901.60 | -1.89 | 80796.00 |
| 541495.80 | 4068511.50 | 3.58 | 901.60 | -1.93 | 80798.00 |
| 541496.30 | 4068512.90 | 3.67 | 901.60 | -1.92 | 80800.00 |
| 541496.10 | 4068514.60 | 3.67 | 901.70 | -1.88 | 80802.00 |
| 541496.40 | 4068509.20 | 3.29 | 901.60 | -1.98 | 80827.00 |
| 541496.40 | 4068510.30 | 3.49 | 901.60 | -2.02 | 80829.00 |
| 541496.30 | 4068512.60 | 3.43 | 901.60 | -2.01 | 80831.00 |
| 541496.10 | 4068515.00 | 3.36 | 901.70 | -2.03 | 80833.00 |
| 541496.20 | 4068517.40 | 3.45 | 901.80 | -1.89 | 80835.00 |
| 541497.10 | 4068519.70 | 3.67 | 901.90 | -1.97 | 80837.00 |
| 541497.80 | 4068522.00 | 3.50 | 902.00 | -1.98 | 80839.00 |
| 541498.40 | 4068524.30 | 3.79 | 902.00 | -1.94 | 80841.00 |
| 541497.90 | 4068526.80 | 3.68 | 902.00 | -1.95 | 80843.00 |
| 541497.30 | 4068529.40 | 3.42 | 902.00 | -2.01 | 80845.00 |
| 541497.40 | 4068531.90 | 3.71 | 902.10 | -1.89 | 80847.00 |
| 541497.70 | 4068534.20 | 3.72 | 902.10 | -1.91 | 80849.00 |
| 541497.50 | 4068536.60 | 3.86 | 902.10 | -1.89 | 80851.00 |
| 541497.30 | 4068538.90 | 3.89 | 902.10 | -2.00 | 80853.00 |
| 541496.90 | 4068541.30 | 3.50 | 902.10 | -1.84 | 80855.00 |
| 541496.60 | 4068543.70 | 3.78 | 902.10 | -1.93 | 80857.00 |
| 541496.50 | 4068546.10 | 3.69 | 902.20 | -1.76 | 80859.00 |
| 541496.10 | 4068548.30 | 3.40 | 902.10 | -1.85 | 80861.00 |
| 541496.10 | 4068550.40 | 3.96 | 902.00 | -1.84 | 80863.00 |
| 541495.90 | 4068552.30 | 3.97 | 902.00 | -1.91 | 80879.50 |
| 541496.30 | 4068552.10 | 3.81 | 902.00 | -1.81 | 80881.00 |
| 541498.30 | 4068552.00 | 3.41 | 902.10 | -1.58 | 80883.00 |

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| 541500.40 | 4068551.90 | 3.32 | 902.20 | -1.80 | 80885.00 |
| 541502.80 | 4068551.70 | 3.84 | 902.40 | -1.81 | 80887.00 |
| 541505.20 | 4068551.40 | 3.48 | 902.40 | -1.86 | 80889.00 |
| 541507.70 | 4068551.60 | 3.55 | 902.50 | -1.83 | 80891.00 |
| 541510.10 | 4068551.60 | 3.42 | 902.50 | -1.78 | 80893.00 |
| 541512.50 | 4068551.20 | 3.46 | 902.60 | -1.91 | 80895.00 |
| 541515.00 | 4068551.20 | 3.34 | 902.80 | -1.93 | 80897.00 |
| 541517.50 | 4068551.40 | 3.27 | 902.80 | -1.96 | 80899.00 |
| 541519.80 | 4068550.60 | 3.26 | 902.80 | -1.92 | 80901.00 |
| 541522.20 | 4068549.50 | 3.11 | 902.90 | -1.87 | 80903.00 |
| 541524.60 | 4068548.70 | 3.28 | 902.90 | -1.96 | 80905.00 |
| 541527.10 | 4068548.40 | 3.29 | 902.90 | -1.99 | 80907.00 |
| 541529.50 | 4068548.10 | 3.46 | 902.80 | -2.00 | 80909.00 |
| 541532.00 | 4068547.30 | 3.25 | 902.90 | -1.89 | 80911.00 |
| 541534.60 | 4068547.30 | 3.08 | 902.90 | -1.78 | 80913.00 |
| 541537.00 | 4068546.60 | 3.27 | 902.90 | -1.78 | 80915.00 |
| 541539.50 | 4068546.50 | 3.03 | 902.90 | -2.04 | 80917.00 |
| 541542.00 | 4068546.30 | 3.01 | 902.90 | -1.96 | 80919.00 |
| 541544.50 | 4068546.10 | 3.04 | 902.90 | -1.93 | 80921.00 |
| 541547.10 | 4068546.60 | 3.08 | 902.90 | -2.02 | 80923.00 |
| 541549.60 | 4068547.00 | 2.99 | 903.00 | -1.91 | 80925.00 |
| 541552.20 | 4068546.80 | 3.22 | 902.90 | -2.00 | 80927.00 |
| 541554.70 | 4068546.90 | 3.10 | 903.00 | -1.91 | 80929.00 |
| 541557.20 | 4068547.00 | 3.21 | 903.10 | -1.94 | 80931.00 |
| 541559.60 | 4068547.10 | 3.14 | 903.10 | -1.84 | 80933.00 |
| 541562.10 | 4068547.10 | 2.94 | 903.10 | -2.01 | 80935.00 |
| 541564.60 | 4068546.80 | 3.33 | 903.20 | -1.91 | 80937.00 |
| 541567.10 | 4068546.40 | 2.92 | 903.20 | -1.90 | 80939.00 |
| 541569.50 | 4068546.40 | 2.75 | 903.20 | -1.96 | 80941.00 |
| 541571.50 | 4068546.40 | 3.10 | 903.20 | -1.95 | 80943.00 |
| 541574.00 | 4068546.50 | 3.15 | 902.90 | -1.94 | 80945.00 |
| 541576.50 | 4068546.60 | 2.83 | 903.00 | -1.89 | 80947.00 |
| 541578.90 | 4068546.70 | 2.88 | 903.00 | -2.07 | 80949.00 |
| 541581.30 | 4068546.70 | 3.70 | 902.90 | -1.89 | 80951.00 |
| 541583.60 | 4068546.80 | 3.03 | 903.00 | -1.68 | 80953.00 |
| 541585.70 | 4068547.30 | 2.80 | 903.30 | -1.84 | 80955.00 |
| 541587.90 | 4068548.20 | 3.20 | 903.30 | -1.83 | 80957.00 |
| 541590.40 | 4068549.00 | 3.61 | 903.20 | -1.93 | 80959.00 |
| 541592.90 | 4068549.40 | 3.10 | 903.30 | -1.75 | 80961.00 |
| 541595.30 | 4068550.00 | 2.79 | 903.40 | -2.05 | 80963.00 |
| 541597.70 | 4068550.90 | 2.97 | 903.40 | -1.98 | 80965.00 |
| 541600.20 | 4068550.80 | 2.92 | 903.50 | -2.04 | 80967.00 |
| 541602.80 | 4068550.60 | 2.82 | 903.50 | -2.01 | 80969.00 |
| 541605.10 | 4068550.70 | 3.26 | 903.40 | -1.92 | 80971.00 |
| 541607.70 | 4068550.50 | 3.55 | 903.30 | -1.76 | 80973.00 |
| 541610.20 | 4068550.10 | 3.50 | 903.40 | -1.80 | 80975.00 |
| 541612.60 | 4068550.20 | 3.03 | 903.60 | -1.89 | 80977.00 |
| 541615.20 | 4068550.00 | 3.34 | 903.70 | -1.92 | 80979.00 |
| 541617.70 | 4068549.90 | 3.63 | 903.80 | -1.92 | 80981.00 |
| 541620.20 | 4068550.10 | 3.63 | 903.90 | -2.00 | 80983.00 |
| 541622.80 | 4068550.40 | 3.65 | 903.90 | -1.96 | 80985.00 |
| 541625.20 | 4068550.90 | 3.53 | 903.80 | -2.06 | 80987.00 |
| 541627.90 | 4068550.70 | 4.21 | 903.80 | -1.99 | 80989.00 |
| 541630.60 | 4068550.60 | 3.88 | 903.90 | -1.87 | 80991.00 |
| 541633.20 | 4068550.40 | 3.93 | 904.00 | -2.05 | 80993.00 |
| 541635.80 | 4068550.50 | 3.79 | 904.00 | -1.96 | 80995.00 |
| 541638.20 | 4068550.90 | 4.21 | 904.00 | -2.04 | 80997.00 |

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| 541640.70 | 4068551.10 | 3.66 | 904.00 | -1.87 | 80999.00 |
| 541643.00 | 4068551.60 | 2.80 | 904.00 | -2.04 | 81001.00 |
| 541645.50 | 4068552.20 | 3.39 | 904.00 | -1.75 | 81003.00 |
| 541648.20 | 4068552.20 | 2.80 | 903.90 | -1.87 | 81005.00 |
| 541650.60 | 4068551.90 | 2.54 | 904.00 | -1.84 | 81007.00 |
| 541653.20 | 4068551.30 | 2.49 | 904.10 | -1.82 | 81009.00 |
| 541655.60 | 4068551.40 | 2.31 | 904.10 | -1.88 | 81011.00 |
| 541658.20 | 4068551.60 | 2.31 | 904.10 | -1.84 | 81013.00 |
| 541660.80 | 4068552.00 | 2.10 | 904.10 | -1.93 | 81015.00 |
| 541663.50 | 4068552.00 | 2.08 | 904.30 | -1.87 | 81017.00 |
| 541665.90 | 4068551.40 | 1.99 | 904.30 | -1.99 | 81019.00 |
| 541668.10 | 4068550.40 | 2.17 | 904.30 | -1.99 | 81021.00 |
| 541670.60 | 4068550.20 | 2.28 | 904.20 | -2.06 | 81023.00 |
| 541673.00 | 4068550.20 | 2.12 | 904.10 | -1.94 | 81025.00 |
| 541675.20 | 4068551.00 | 2.00 | 904.30 | -2.10 | 81027.00 |
| 541677.30 | 4068550.20 | 2.07 | 904.30 | -2.18 | 81029.00 |
| 541679.60 | 4068549.10 | 2.02 | 904.30 | -2.15 | 81031.00 |
| 541682.10 | 4068549.40 | 2.19 | 904.30 | -2.10 | 81033.00 |
| 541684.80 | 4068549.30 | 2.15 | 904.30 | -1.93 | 81035.00 |
| 541687.40 | 4068549.10 | 2.04 | 904.30 | -1.98 | 81037.00 |
| 541689.80 | 4068549.30 | 1.97 | 904.40 | -2.00 | 81039.00 |
| 541692.20 | 4068550.00 | 1.93 | 904.30 | -1.94 | 81041.00 |
| 541694.90 | 4068550.40 | 1.86 | 904.30 | -2.11 | 81043.00 |
| 541697.40 | 4068550.50 | 1.95 | 904.40 | -2.15 | 81045.00 |
| 541699.80 | 4068551.00 | 2.22 | 904.20 | -2.00 | 81047.00 |
| 541702.00 | 4068550.40 | 2.13 | 904.30 | -1.96 | 81049.00 |
| 541704.50 | 4068550.30 | 2.18 | 904.20 | -1.98 | 81051.00 |
| 541706.90 | 4068550.00 | 2.09 | 904.20 | -1.73 | 81053.00 |
| 541708.50 | 4068549.10 | 1.44 | 904.50 | -1.99 | 81055.00 |
| 541710.30 | 4068548.40 | 1.77 | 904.60 | -1.92 | 81057.00 |
| 541712.70 | 4068548.00 | 1.67 | 904.60 | -2.00 | 81059.00 |
| 541715.20 | 4068548.00 | 1.48 | 904.60 | -2.02 | 81061.00 |
| 541717.60 | 4068547.90 | 1.71 | 904.70 | -2.02 | 81063.00 |
| 541720.10 | 4068548.10 | 1.61 | 904.60 | -1.95 | 81065.00 |
| 541722.60 | 4068547.90 | 1.99 | 904.50 | -2.01 | 81067.00 |
| 541724.80 | 4068548.10 | 1.65 | 904.40 | -1.99 | 81069.00 |
| 541727.40 | 4068547.90 | 1.72 | 904.20 | -2.05 | 81071.00 |
| 541730.00 | 4068548.10 | 2.07 | 904.10 | -1.99 | 81073.00 |
| 541732.60 | 4068548.20 | 1.72 | 904.30 | -2.20 | 81075.00 |
| 541734.80 | 4068548.20 | 1.66 | 904.30 | -2.13 | 81077.00 |
| 541737.20 | 4068548.30 | 1.76 | 904.20 | -2.25 | 81079.00 |
| 541739.70 | 4068548.20 | 1.84 | 904.00 | -1.74 | 81081.00 |
| 541742.10 | 4068548.40 | 1.40 | 904.30 | -1.90 | 81083.00 |
| 541744.40 | 4068548.00 | 1.54 | 904.30 | -1.99 | 81085.00 |
| 541746.90 | 4068547.70 | 1.85 | 904.20 | -2.14 | 81087.00 |
| 541749.50 | 4068548.00 | 1.89 | 904.00 | -1.89 | 81089.00 |
| 541752.00 | 4068549.10 | 1.95 | 904.00 | -1.88 | 81091.00 |
| 541754.50 | 4068549.10 | 1.66 | 904.20 | -2.04 | 81093.00 |
| 541757.00 | 4068549.40 | 1.62 | 904.10 | -1.80 | 81095.00 |
| 541759.60 | 4068549.40 | 1.63 | 904.30 | -2.00 | 81097.00 |
| 541762.00 | 4068549.60 | 1.78 | 904.20 | -1.77 | 81099.00 |
| 541764.70 | 4068549.50 | 1.56 | 904.30 | -1.88 | 81101.00 |
| 541767.00 | 4068549.20 | 1.60 | 904.30 | -1.91 | 81103.00 |
| 541769.20 | 4068549.40 | 1.62 | 904.40 | -1.97 | 81105.00 |
| 541771.70 | 4068549.60 | 1.65 | 904.50 | -1.79 | 81107.00 |
| 541774.50 | 4068549.70 | 1.67 | 904.50 | -1.88 | 81109.00 |
| 541776.90 | 4068549.70 | 1.47 | 904.60 | -1.93 | 81111.00 |

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| 541779.30 | 4068550.10 | 1.52 | 904.80 | -1.95 | 81113.00 |
| 541781.80 | 4068549.90 | 1.75 | 904.60 | -2.18 | 81115.00 |
| 541784.30 | 4068549.80 | 1.89 | 904.50 | -2.05 | 81117.00 |
| 541786.90 | 4068549.90 | 2.28 | 904.40 | -1.93 | 81119.00 |
| 541789.70 | 4068550.00 | 1.91 | 904.40 | -1.82 | 81121.00 |
| 541791.90 | 4068550.00 | 1.94 | 904.60 | -1.94 | 81123.00 |
| 541794.30 | 4068550.30 | 2.28 | 904.60 | -2.03 | 81125.00 |
| 541796.80 | 4068550.00 | 2.38 | 904.50 | -1.98 | 81127.00 |
| 541799.30 | 4068549.30 | 2.27 | 904.50 | -2.12 | 81129.00 |
| 541801.20 | 4068550.20 | 2.69 | 904.40 | -1.96 | 81131.00 |
| 541803.70 | 4068550.00 | 3.73 | 904.10 | -2.10 | 81133.00 |
| 541806.30 | 4068550.20 | 2.62 | 904.20 | -2.08 | 81135.00 |
| 541807.70 | 4068549.50 | 2.30 | 904.50 | -2.07 | 81137.00 |
| 541810.20 | 4068549.50 | 2.54 | 904.50 | -2.10 | 81139.00 |
| 541812.60 | 4068549.70 | 2.29 | 904.40 | -2.07 | 81141.00 |
| 541815.10 | 4068550.20 | 2.18 | 904.40 | -2.06 | 81143.00 |
| 541817.70 | 4068550.60 | 1.83 | 904.50 | -2.08 | 81145.00 |
| 541820.10 | 4068550.90 | 1.61 | 904.50 | -2.08 | 81147.00 |
| 541822.40 | 4068550.80 | 2.07 | 904.50 | -1.96 | 81149.00 |
| 541825.00 | 4068551.40 | 1.78 | 904.60 | -1.95 | 81151.00 |
| 541827.40 | 4068551.50 | 1.87 | 904.60 | -1.96 | 81153.00 |
| 541829.90 | 4068551.40 | 1.73 | 904.60 | -2.06 | 81155.00 |
| 541832.30 | 4068551.10 | 1.62 | 904.60 | -2.12 | 81157.00 |
| 541834.60 | 4068551.00 | 1.68 | 904.40 | -2.15 | 81159.00 |
| 541837.00 | 4068550.50 | 1.87 | 904.50 | -1.86 | 81161.00 |
| 541839.30 | 4068550.10 | 1.56 | 904.70 | -2.02 | 81163.00 |
| 541841.60 | 4068549.60 | 1.79 | 904.90 | -1.96 | 81165.00 |
| 541844.20 | 4068549.90 | 2.03 | 904.90 | -2.15 | 81167.00 |
| 541846.70 | 4068550.20 | 2.02 | 904.90 | -2.09 | 81169.00 |
| 541849.30 | 4068550.10 | 2.24 | 904.90 | -2.00 | 81171.00 |
| 541851.90 | 4068550.10 | 2.14 | 905.00 | -1.96 | 81173.00 |
| 541854.20 | 4068549.70 | 2.28 | 905.30 | -1.62 | 81175.00 |
| 541856.50 | 4068549.70 | 2.05 | 905.60 | -1.83 | 81177.00 |
| 541858.70 | 4068549.40 | 2.54 | 905.80 | -1.97 | 81179.00 |
| 541861.10 | 4068548.90 | 2.99 | 905.90 | -1.98 | 81181.00 |
| 541863.70 | 4068549.00 | 3.28 | 905.80 | -2.00 | 81183.00 |
| 541866.30 | 4068548.60 | 3.68 | 905.80 | -2.04 | 81185.00 |
| 541868.90 | 4068548.40 | 3.76 | 906.00 | -2.05 | 81187.00 |
| 541871.30 | 4068548.30 | 4.10 | 906.10 | -2.02 | 81189.00 |
| 541873.80 | 4068548.30 | 4.03 | 906.30 | -2.11 | 81191.00 |
| 541876.30 | 4068547.70 | 4.45 | 906.40 | -2.28 | 81193.00 |
| 541878.70 | 4068547.10 | 4.26 | 906.60 | -2.22 | 81195.00 |
| 541881.00 | 4068546.60 | 3.93 | 906.80 | -2.37 | 81197.00 |
| 541883.20 | 4068546.00 | 3.88 | 907.00 | -2.46 | 81199.00 |
| 541885.60 | 4068545.50 | 3.83 | 907.00 | -2.48 | 81201.00 |
| 541888.10 | 4068545.90 | 4.55 | 907.10 | -2.61 | 81203.00 |
| 541890.60 | 4068546.40 | 4.20 | 907.00 | -2.63 | 81205.00 |
| 541893.00 | 4068546.90 | 3.90 | 907.00 | -2.72 | 81207.00 |
| 541895.40 | 4068547.00 | 4.44 | 907.00 | -2.75 | 81209.00 |
| 541897.90 | 4068547.50 | 4.70 | 906.90 | -2.72 | 81211.00 |
| 541900.30 | 4068548.30 | 5.50 | 906.70 | -2.55 | 81213.00 |
| 541902.80 | 4068549.40 | 5.38 | 906.70 | -2.48 | 81215.00 |
| 541905.10 | 4068549.80 | 3.65 | 907.10 | -2.51 | 81217.00 |
| 541907.70 | 4068549.90 | 4.64 | 907.20 | -2.55 | 81219.00 |
| 541910.20 | 4068550.10 | 4.97 | 907.30 | -2.54 | 81221.00 |
| 541912.50 | 4068550.70 | 5.18 | 907.40 | -2.59 | 81223.00 |
| 541914.90 | 4068550.60 | 4.84 | 907.50 | -2.53 | 81225.00 |

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| 541917.50 | 4068550.80 | 5.14 | 907.40 | -2.53 | 81227.00 |
| 541919.90 | 4068551.40 | 5.32 | 907.40 | -2.55 | 81229.00 |
| 541922.30 | 4068550.90 | 5.16 | 907.50 | -2.38 | 81231.00 |
| 541925.10 | 4068550.80 | 5.55 | 907.50 | -2.43 | 81233.00 |
| 541927.50 | 4068551.20 | 5.96 | 907.60 | -2.23 | 81235.00 |
| 541930.00 | 4068550.90 | 5.17 | 907.70 | -2.30 | 81237.00 |
| 541932.60 | 4068551.40 | 5.93 | 907.80 | -2.35 | 81239.00 |
| 541935.20 | 4068551.80 | 6.89 | 907.80 | -2.36 | 81241.00 |
| 541938.00 | 4068551.80 | 6.14 | 907.90 | -2.34 | 81243.00 |
| 541940.60 | 4068551.50 | 7.24 | 907.90 | -2.32 | 81245.00 |
| 541943.20 | 4068551.30 | 6.26 | 907.90 | -2.31 | 81247.00 |
| 541945.80 | 4068551.40 | 6.81 | 908.00 | -2.37 | 81249.00 |
| 541948.40 | 4068552.10 | 6.94 | 908.00 | -2.40 | 81251.00 |
| 541951.00 | 4068552.50 | 6.65 | 908.00 | -2.42 | 81253.00 |
| 541953.70 | 4068552.80 | 5.97 | 908.00 | -2.48 | 81255.00 |
| 541956.40 | 4068552.90 | 5.21 | 908.10 | -2.49 | 81257.00 |
| 541959.00 | 4068552.90 | 6.73 | 908.00 | -2.35 | 81259.00 |
| 541961.50 | 4068552.60 | 6.41 | 907.90 | -2.38 | 81261.00 |
| 541964.20 | 4068552.70 | 6.80 | 907.80 | -2.30 | 81263.00 |
| 541966.60 | 4068553.30 | 7.17 | 908.00 | -2.45 | 81265.00 |
| 541969.10 | 4068553.80 | 6.10 | 908.10 | -2.30 | 81267.00 |
| 541971.70 | 4068553.80 | 8.54 | 908.20 | -2.29 | 81269.00 |
| 541974.30 | 4068553.70 | 8.47 | 908.30 | -2.33 | 81271.00 |
| 541976.90 | 4068554.00 | 9.28 | 908.30 | -2.38 | 81273.00 |
| 541979.50 | 4068554.50 | 9.04 | 908.40 | -2.22 | 81275.00 |
| 541982.10 | 4068555.20 | 8.20 | 908.60 | -2.23 | 81277.00 |
| 541984.40 | 4068556.30 | 8.32 | 908.70 | -2.17 | 81279.00 |
| 541986.60 | 4068557.70 | 7.75 | 908.70 | -2.24 | 81281.00 |
| 541989.00 | 4068557.50 | 7.12 | 908.70 | -2.12 | 81283.00 |
| 541991.30 | 4068558.10 | 8.34 | 908.80 | -2.22 | 81285.00 |
| 541993.30 | 4068559.60 | 7.02 | 908.90 | -2.07 | 81287.00 |
| 541995.80 | 4068560.20 | 7.19 | 909.00 | -2.17 | 81289.00 |
| 541998.50 | 4068560.60 | 7.66 | 909.00 | -2.23 | 81291.00 |
| 542001.10 | 4068560.30 | 6.60 | 909.00 | -2.22 | 81293.00 |
| 542003.80 | 4068559.80 | 6.12 | 909.00 | -2.27 | 81295.00 |
| 542006.30 | 4068559.10 | 6.25 | 909.00 | -2.32 | 81297.00 |
| 542008.90 | 4068558.80 | 6.91 | 909.10 | -2.34 | 81299.00 |
| 542011.40 | 4068558.60 | 5.97 | 909.10 | -2.26 | 81301.00 |
| 542013.90 | 4068558.20 | 6.04 | 909.00 | -2.30 | 81303.00 |
| 542016.30 | 4068558.10 | 6.32 | 909.00 | -2.38 | 81305.00 |
| 542018.80 | 4068557.80 | 6.55 | 909.00 | -2.23 | 81307.00 |
| 542021.10 | 4068557.70 | 5.95 | 908.90 | -2.30 | 81309.00 |
| 542023.40 | 4068557.60 | 5.84 | 908.80 | -2.58 | 81311.00 |
| 542025.80 | 4068557.90 | 5.82 | 908.70 | -2.48 | 81313.00 |
| 542028.10 | 4068558.00 | 5.93 | 908.40 | -3.10 | 81315.00 |
| 542030.20 | 4068558.20 | 7.10 | 908.10 | -2.37 | 81317.00 |
| 542032.70 | 4068558.50 | 7.75 | 907.40 | -2.32 | 81319.00 |
| 542035.00 | 4068559.00 | 7.63 | 907.30 | -2.16 | 81321.00 |
| 542036.80 | 4068560.10 | 7.18 | 907.30 | -2.32 | 81323.00 |
| 542038.50 | 4068561.10 | 7.92 | 907.40 | -2.46 | 81325.00 |
| 542040.00 | 4068562.40 | 8.13 | 907.40 | -2.73 | 81327.00 |
| 542040.70 | 4068563.90 | 7.62 | 907.40 | -2.86 | 81329.00 |
| 542041.10 | 4068565.80 | 7.66 | 907.40 | -3.26 | 81331.00 |
| 542041.10 | 4068568.00 | 8.01 | 907.40 | -2.81 | 81333.00 |
| 542042.30 | 4068569.60 | 7.89 | 907.30 | -3.19 | 81335.00 |
| 542043.70 | 4068570.70 | 8.88 | 907.20 | -3.13 | 81337.00 |
| 542045.50 | 4068571.70 | 9.22 | 907.10 | -3.01 | 81339.00 |

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| 542046.90 | 4068573.20 | 8.53 | 907.30 | -2.97 | 81341.00 |
| 542047.80 | 4068574.30 | 6.24 | 907.60 | -3.10 | 81343.00 |
| 542049.30 | 4068574.80 | 5.66 | 908.00 | -3.04 | 81345.00 |
| 542050.90 | 4068574.30 | 5.69 | 908.40 | -3.09 | 81347.00 |
| 542052.00 | 4068573.00 | 6.61 | 908.60 | -2.79 | 81349.00 |
| 542053.00 | 4068571.30 | 6.59 | 908.80 | -2.83 | 81351.00 |
| 542053.90 | 4068569.20 | 6.16 | 909.00 | -2.76 | 81353.00 |
| 542054.00 | 4068566.80 | 6.05 | 909.10 | -2.59 | 81355.00 |
| 542053.90 | 4068564.70 | 5.93 | 909.20 | -2.53 | 81357.00 |
| 542054.30 | 4068562.50 | 5.64 | 909.30 | -2.52 | 81359.00 |
| 542054.00 | 4068560.40 | 6.10 | 909.40 | -2.50 | 81361.00 |
| 542054.10 | 4068558.20 | 5.96 | 909.40 | -2.50 | 81363.00 |
| 542054.80 | 4068556.10 | 6.86 | 909.40 | -2.38 | 81365.00 |
| 542055.20 | 4068554.00 | 6.94 | 909.40 | -2.26 | 81367.00 |
| 542056.60 | 4068552.40 | 8.11 | 909.50 | -2.31 | 81369.00 |
| 542058.60 | 4068551.50 | 8.17 | 909.50 | -2.25 | 81371.00 |
| 542060.70 | 4068551.30 | 8.02 | 909.60 | -2.17 | 81373.00 |
| 542062.70 | 4068550.80 | 8.96 | 909.60 | -2.32 | 81375.00 |
| 542064.50 | 4068549.40 | 9.21 | 909.60 | -2.34 | 81377.00 |
| 542066.60 | 4068548.50 | 9.44 | 909.60 | -2.29 | 81379.00 |
| 542068.80 | 4068547.70 | 10.50 | 909.70 | -2.27 | 81381.00 |
| 542071.00 | 4068546.90 | 11.74 | 909.80 | -2.29 | 81383.00 |
| 542073.00 | 4068545.50 | 11.15 | 909.70 | -2.38 | 81385.00 |
| 542075.30 | 4068545.20 | 11.94 | 909.90 | -2.26 | 81387.00 |
| 542077.80 | 4068545.10 | 13.85 | 909.90 | -2.20 | 81389.00 |
| 542080.20 | 4068544.70 | 12.54 | 909.80 | -2.26 | 81391.00 |
| 542082.70 | 4068543.90 | 11.85 | 909.80 | -2.34 | 81393.00 |
| 542085.00 | 4068543.30 | 11.37 | 909.90 | -2.43 | 81395.00 |
| 542087.40 | 4068544.00 | 11.36 | 909.80 | -2.17 | 81397.00 |
| 542089.60 | 4068544.90 | 11.43 | 909.90 | -2.34 | 81399.00 |
| 542092.00 | 4068545.40 | 12.18 | 909.90 | -2.29 | 81401.00 |
| 542094.40 | 4068545.90 | 10.76 | 910.00 | -2.27 | 81403.00 |
| 542096.70 | 4068546.60 | 9.82 | 910.00 | -2.42 | 81405.00 |
| 542099.00 | 4068546.80 | 13.78 | 910.00 | -2.44 | 81407.00 |
| 542101.90 | 4068547.00 | 10.58 | 910.10 | -2.54 | 81624.00 |
| 542101.90 | 4068547.00 | 11.04 | 910.10 | -2.44 | 81625.00 |
| 542102.20 | 4068546.90 | 10.77 | 910.10 | -2.49 | 81627.00 |
| 542103.10 | 4068547.80 | 10.86 | 910.10 | -2.51 | 81629.00 |
| 542103.50 | 4068549.50 | 10.49 | 910.10 | -2.51 | 81631.00 |
| 542104.20 | 4068551.60 | 10.16 | 910.20 | -2.97 | 81633.00 |
| 542104.70 | 4068553.80 | 10.94 | 910.30 | -2.63 | 81635.00 |
| 542104.80 | 4068556.20 | 11.01 | 910.30 | -2.40 | 81637.00 |
| 542105.30 | 4068558.40 | 11.24 | 910.40 | -2.46 | 81639.00 |
| 542105.70 | 4068560.80 | 10.04 | 910.50 | -2.40 | 81641.00 |
| 542105.80 | 4068563.10 | 11.11 | 910.50 | -2.37 | 81643.00 |
| 542106.00 | 4068565.40 | 12.34 | 910.60 | -2.28 | 81645.00 |
| 542105.90 | 4068567.60 | 11.72 | 910.60 | -2.26 | 81647.00 |
| 542106.00 | 4068570.00 | 10.69 | 910.70 | -2.39 | 81649.00 |
| 542105.50 | 4068572.30 | 10.25 | 910.70 | -2.29 | 81651.00 |
| 542105.20 | 4068574.70 | 10.91 | 910.80 | -2.28 | 81653.00 |
| 542105.60 | 4068577.10 | 10.60 | 910.90 | -2.42 | 81655.00 |
| 542106.10 | 4068579.50 | 10.56 | 910.90 | -2.53 | 81657.00 |
| 542106.60 | 4068581.80 | 10.41 | 911.00 | -2.46 | 81659.00 |
| 542107.30 | 4068584.00 | 9.88 | 911.00 | -2.51 | 81661.00 |
| 542107.80 | 4068586.30 | 9.17 | 911.10 | -2.55 | 81663.00 |
| 542108.20 | 4068588.70 | 8.30 | 911.10 | -2.47 | 81665.00 |
| 542108.40 | 4068591.00 | 9.79 | 911.20 | -2.35 | 81667.00 |

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| 542109.00 | 4068593.10 | 9.61 | 911.30 | -2.60 | 81669.00 |
| 542109.70 | 4068595.30 | 9.23 | 911.30 | -2.31 | 81671.00 |
| 542110.60 | 4068597.10 | 9.06 | 911.30 | -2.41 | 81673.00 |
| 542111.10 | 4068598.10 | 8.84 | 911.40 | -2.37 | 81675.00 |
| 542111.70 | 4068599.10 | 8.61 | 911.40 | -2.53 | 81677.00 |
| 542113.00 | 4068600.40 | 8.30 | 911.40 | -2.33 | 81692.50 |
| 542112.70 | 4068600.40 | 7.81 | 911.40 | -2.44 | 81694.00 |
| 542110.90 | 4068600.80 | 8.37 | 911.40 | -2.41 | 81696.00 |
| 542108.60 | 4068601.40 | 7.38 | 911.40 | -2.33 | 81698.00 |
| 542106.40 | 4068602.10 | 7.32 | 911.40 | -2.41 | 81700.00 |
| 542104.20 | 4068603.00 | 7.17 | 911.30 | -2.35 | 81702.00 |
| 542102.10 | 4068603.90 | 6.33 | 911.30 | -2.34 | 81704.00 |
| 542100.10 | 4068604.70 | 6.39 | 911.30 | -2.49 | 81706.00 |
| 542098.20 | 4068605.40 | 6.31 | 911.10 | -2.44 | 81708.00 |
| 542096.30 | 4068605.20 | 6.12 | 911.20 | -2.58 | 81710.00 |
| 542095.20 | 4068604.60 | 5.61 | 911.10 | -2.81 | 81712.00 |
| 542093.80 | 4068604.30 | 6.04 | 910.80 | -2.57 | 81714.00 |
| 542092.80 | 4068604.90 | 6.22 | 910.50 | -2.61 | 81716.00 |
| 542091.80 | 4068604.80 | 6.60 | 910.10 | -2.68 | 81718.00 |
| 542091.10 | 4068605.60 | 6.96 | 909.60 | -2.84 | 81720.00 |
| 542089.60 | 4068605.90 | 8.19 | 909.30 | -2.78 | 81722.00 |
| 542088.10 | 4068606.60 | 8.19 | 908.80 | -2.83 | 81724.00 |
| 542086.20 | 4068608.40 | 7.66 | 908.40 | -2.81 | 81726.00 |
| 542085.00 | 4068609.00 | 7.96 | 908.70 | -2.52 | 81728.00 |
| 542084.20 | 4068609.00 | 6.86 | 908.70 | -2.88 | 81730.00 |
| 542083.10 | 4068609.50 | 7.24 | 908.70 | -3.16 | 81732.00 |
| 542081.60 | 4068610.70 | 7.03 | 908.70 | -3.24 | 81734.00 |
| 542079.50 | 4068611.40 | 6.97 | 908.70 | -3.23 | 81736.00 |
| 542078.20 | 4068612.50 | 5.75 | 909.00 | -3.24 | 81738.00 |
| 542077.20 | 4068613.50 | 6.02 | 909.40 | -3.17 | 81740.00 |
| 542076.00 | 4068614.40 | 5.55 | 909.70 | -2.86 | 81742.00 |
| 542074.70 | 4068615.20 | 6.07 | 910.00 | -2.96 | 81744.00 |
| 542072.60 | 4068615.60 | 6.34 | 909.90 | -2.88 | 81746.00 |
| 542070.50 | 4068615.50 | 5.83 | 910.00 | -2.92 | 81748.00 |
| 542068.20 | 4068615.50 | 5.09 | 910.00 | -2.76 | 81750.00 |
| 542066.50 | 4068615.00 | 5.84 | 910.00 | -2.51 | 81752.00 |
| 542064.50 | 4068614.80 | 5.79 | 910.00 | -2.49 | 81754.00 |
| 542062.30 | 4068614.70 | 5.46 | 910.00 | -2.33 | 81756.00 |
| 542060.20 | 4068614.40 | 5.31 | 910.20 | -2.28 | 81758.00 |
| 542058.30 | 4068614.10 | 4.63 | 910.50 | -2.26 | 81760.00 |
| 542056.40 | 4068613.80 | 5.14 | 910.60 | -2.30 | 81762.00 |
| 542054.30 | 4068613.00 | 5.20 | 910.70 | -2.46 | 81764.00 |
| 542052.10 | 4068612.40 | 5.42 | 910.80 | -2.43 | 81766.00 |
| 542049.90 | 4068611.80 | 5.37 | 910.70 | -2.59 | 81768.00 |
| 542047.70 | 4068611.30 | 5.64 | 910.80 | -2.63 | 81770.00 |
| 542045.50 | 4068610.70 | 5.57 | 910.70 | -2.69 | 81772.00 |
| 542043.30 | 4068609.60 | 5.25 | 910.70 | -2.46 | 81774.00 |
| 542040.90 | 4068608.70 | 5.97 | 910.60 | -2.43 | 81776.00 |
| 542038.70 | 4068608.10 | 5.99 | 910.50 | -2.41 | 81778.00 |
| 542036.20 | 4068607.10 | 6.36 | 910.50 | -2.52 | 81780.00 |
| 542033.90 | 4068606.40 | 6.57 | 910.40 | -2.34 | 81782.00 |
| 542031.70 | 4068605.80 | 6.09 | 910.40 | -2.37 | 81784.00 |
| 542029.30 | 4068605.00 | 6.09 | 910.30 | -2.45 | 81786.00 |
| 542026.80 | 4068604.20 | 7.28 | 910.30 | -2.42 | 81788.00 |
| 542024.30 | 4068603.40 | 6.98 | 910.30 | -2.49 | 81790.00 |
| 542021.80 | 4068602.70 | 6.29 | 910.20 | -2.48 | 81792.00 |
| 542019.40 | 4068601.90 | 6.96 | 910.20 | -2.47 | 81794.00 |

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| 542016.90 | 4068601.20 | 7.70 | 910.10 | -2.40 | 81796.00 |
| 542014.40 | 4068600.90 | 8.67 | 910.10 | -2.41 | 81798.00 |
| 542011.80 | 4068601.00 | 7.78 | 910.10 | -2.34 | 81800.00 |
| 542009.20 | 4068601.40 | 8.48 | 910.10 | -2.44 | 81802.00 |
| 542006.70 | 4068601.90 | 8.79 | 910.10 | -2.41 | 81804.00 |
| 542004.20 | 4068602.30 | 8.49 | 910.00 | -2.53 | 81806.00 |
| 542001.60 | 4068601.90 | 8.84 | 909.90 | -2.48 | 81808.00 |
| 541999.30 | 4068601.10 | 8.75 | 909.80 | -2.40 | 81810.00 |
| 541996.80 | 4068600.70 | 7.21 | 909.80 | -2.45 | 81812.00 |
| 541994.30 | 4068600.30 | 8.32 | 909.60 | -2.50 | 81814.00 |
| 541992.00 | 4068600.10 | 8.56 | 909.50 | -2.44 | 81816.00 |
| 541989.60 | 4068600.70 | 8.72 | 909.40 | -2.67 | 81818.00 |
| 541987.30 | 4068600.30 | 8.64 | 909.30 | -2.53 | 81820.00 |
| 541984.80 | 4068599.90 | 7.58 | 909.30 | -2.46 | 81822.00 |
| 541982.50 | 4068598.90 | 7.66 | 909.30 | -2.48 | 81824.00 |
| 541980.10 | 4068599.00 | 8.09 | 909.40 | -2.49 | 81826.00 |
| 541977.40 | 4068599.10 | 6.15 | 909.40 | -2.53 | 81828.00 |
| 541974.70 | 4068598.90 | 7.00 | 909.30 | -2.61 | 81830.00 |
| 541972.20 | 4068598.30 | 6.46 | 909.40 | -2.57 | 81832.00 |
| 541969.90 | 4068597.90 | 5.71 | 909.40 | -2.55 | 81834.00 |
| 541967.30 | 4068598.00 | 5.85 | 909.30 | -2.61 | 81836.00 |
| 541964.90 | 4068597.60 | 5.83 | 909.10 | -2.45 | 81838.00 |
| 541962.40 | 4068597.30 | 5.04 | 909.20 | -2.51 | 81840.00 |
| 541959.90 | 4068597.60 | 5.77 | 909.20 | -2.49 | 81842.00 |
| 541957.40 | 4068598.00 | 5.92 | 909.20 | -2.64 | 81844.00 |
| 541954.90 | 4068598.10 | 5.36 | 909.20 | -2.63 | 81846.00 |
| 541952.30 | 4068597.90 | 6.11 | 909.20 | -2.64 | 81848.00 |
| 541949.70 | 4068598.10 | 5.44 | 909.10 | -2.65 | 81850.00 |
| 541947.10 | 4068598.00 | 5.64 | 909.20 | -2.64 | 81852.00 |
| 541944.50 | 4068598.00 | 5.86 | 909.10 | -2.62 | 81854.00 |
| 541942.00 | 4068598.10 | 5.41 | 909.10 | -2.58 | 81856.00 |
| 541939.40 | 4068598.00 | 5.44 | 909.00 | -2.72 | 81858.00 |
| 541936.90 | 4068597.60 | 5.18 | 909.00 | -2.73 | 81860.00 |
| 541934.30 | 4068597.30 | 5.89 | 908.90 | -2.75 | 81862.00 |
| 541931.80 | 4068597.00 | 5.50 | 908.90 | -2.81 | 81864.00 |
| 541929.20 | 4068596.90 | 5.52 | 908.80 | -2.71 | 81866.00 |
| 541926.70 | 4068596.80 | 5.90 | 908.70 | -2.75 | 81868.00 |
| 541924.20 | 4068597.00 | 5.22 | 908.60 | -2.77 | 81870.00 |
| 541921.70 | 4068597.00 | 6.16 | 908.50 | -2.83 | 81872.00 |
| 541919.20 | 4068597.20 | 7.01 | 908.30 | -2.85 | 81874.00 |
| 541916.60 | 4068597.50 | 5.75 | 908.20 | -2.75 | 81876.00 |
| 541914.30 | 4068598.00 | 5.77 | 908.50 | -2.76 | 81878.00 |
| 541911.80 | 4068598.30 | 6.78 | 908.50 | -2.67 | 81880.00 |
| 541909.30 | 4068598.00 | 6.78 | 908.60 | -2.73 | 81882.00 |
| 541906.90 | 4068598.10 | 5.83 | 908.50 | -2.85 | 81884.00 |
| 541904.40 | 4068598.60 | 5.06 | 908.50 | -2.69 | 81886.00 |
| 541901.70 | 4068599.00 | 4.77 | 908.50 | -2.64 | 81888.00 |
| 541899.40 | 4068600.00 | 4.56 | 908.40 | -2.56 | 81890.00 |
| 541897.20 | 4068601.20 | 3.89 | 908.40 | -2.68 | 81892.00 |
| 541894.90 | 4068602.00 | 3.54 | 908.40 | -2.52 | 81894.00 |
| 541892.90 | 4068603.00 | 3.34 | 908.30 | -2.73 | 81896.00 |
| 541890.50 | 4068603.50 | 2.90 | 908.10 | -2.61 | 81898.00 |
| 541888.30 | 4068604.10 | 2.76 | 908.00 | -2.59 | 81900.00 |
| 541886.50 | 4068605.40 | 2.30 | 907.70 | -2.52 | 81902.00 |
| 541884.50 | 4068605.60 | 2.45 | 907.30 | -2.25 | 81904.00 |
| 541882.20 | 4068606.20 | 2.25 | 907.00 | -2.28 | 81906.00 |
| 541879.80 | 4068606.00 | 1.81 | 906.90 | -2.17 | 81908.00 |

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| 541877.30 | 4068605.90 | 1.50 | 907.00 | -2.12 | 81910.00 |
| 541875.00 | 4068606.50 | 1.22 | 907.00 | -2.17 | 81912.00 |
| 541872.50 | 4068606.50 | 1.41 | 906.90 | -2.05 | 81914.00 |
| 541869.90 | 4068606.60 | 1.30 | 906.90 | -2.14 | 81916.00 |
| 541867.40 | 4068606.90 | 1.22 | 906.80 | -1.99 | 81918.00 |
| 541864.80 | 4068606.90 | 1.21 | 906.80 | -2.10 | 81920.00 |
| 541862.30 | 4068607.30 | 1.23 | 906.80 | -2.06 | 81922.00 |
| 541859.70 | 4068607.70 | 1.21 | 906.70 | -2.02 | 81924.00 |
| 541857.20 | 4068608.20 | 1.24 | 906.70 | -2.24 | 81926.00 |
| 541855.00 | 4068608.20 | 1.24 | 906.70 | -2.27 | 81928.00 |
| 541853.00 | 4068608.90 | 1.65 | 906.30 | -2.02 | 81930.00 |
| 541850.60 | 4068608.90 | 1.72 | 906.10 | -2.25 | 81932.00 |
| 541848.20 | 4068608.40 | 1.79 | 906.10 | -2.47 | 81934.00 |
| 541846.00 | 4068607.80 | 2.11 | 905.90 | -1.94 | 81936.00 |
| 541843.50 | 4068607.60 | 1.60 | 906.10 | -1.96 | 81938.00 |
| 541841.40 | 4068607.50 | 1.57 | 906.30 | -1.91 | 81940.00 |
| 541839.20 | 4068607.50 | 1.88 | 906.40 | -2.02 | 81942.00 |
| 541836.80 | 4068607.00 | 1.87 | 906.40 | -1.99 | 81944.00 |
| 541834.40 | 4068607.40 | 1.77 | 906.30 | -1.96 | 81946.00 |
| 541831.80 | 4068607.30 | 2.01 | 906.20 | -1.93 | 81948.00 |
| 541829.20 | 4068607.10 | 2.08 | 906.10 | -1.98 | 81950.00 |
| 541826.70 | 4068607.20 | 2.03 | 906.10 | -2.00 | 81952.00 |
| 541824.10 | 4068607.20 | 1.96 | 906.10 | -2.06 | 81954.00 |
| 541821.60 | 4068607.00 | 1.97 | 906.00 | -1.99 | 81956.00 |
| 541819.20 | 4068607.40 | 2.32 | 906.00 | -2.06 | 81958.00 |
| 541816.70 | 4068607.60 | 2.16 | 906.10 | -2.03 | 81960.00 |
| 541814.10 | 4068607.00 | 2.30 | 906.00 | -2.01 | 81962.00 |
| 541811.60 | 4068606.80 | 2.28 | 906.00 | -2.16 | 81964.00 |
| 541809.10 | 4068606.30 | 2.74 | 905.90 | -1.97 | 81966.00 |
| 541806.70 | 4068605.50 | 2.59 | 905.70 | -1.93 | 81968.00 |
| 541804.00 | 4068605.30 | 2.43 | 905.80 | -1.96 | 81970.00 |
| 541801.90 | 4068604.30 | 2.47 | 905.90 | -2.00 | 81972.00 |
| 541799.60 | 4068603.50 | 2.63 | 905.70 | -2.14 | 81974.00 |
| 541797.20 | 4068603.20 | 2.48 | 905.80 | -1.88 | 81976.00 |
| 541794.80 | 4068603.00 | 2.52 | 905.70 | -2.12 | 81978.00 |
| 541792.60 | 4068602.60 | 2.94 | 905.50 | -1.75 | 81980.00 |
| 541790.20 | 4068601.40 | 2.46 | 905.80 | -1.97 | 81982.00 |
| 541788.00 | 4068600.80 | 2.60 | 905.80 | -2.04 | 81984.00 |
| 541785.40 | 4068600.60 | 2.41 | 905.80 | -2.19 | 81986.00 |
| 541783.10 | 4068600.10 | 2.17 | 905.80 | -2.20 | 81988.00 |
| 541780.70 | 4068600.30 | 1.98 | 905.60 | -2.22 | 81990.00 |
| 541778.20 | 4068600.50 | 1.65 | 905.70 | -2.22 | 81992.00 |
| 541775.90 | 4068600.10 | 1.67 | 905.80 | -2.12 | 81994.00 |
| 541773.50 | 4068599.60 | 1.42 | 905.80 | -2.17 | 81996.00 |
| 541770.90 | 4068599.40 | 1.61 | 905.80 | -2.09 | 81998.00 |
| 541768.30 | 4068599.30 | 1.61 | 905.80 | -2.12 | 82000.00 |
| 541765.70 | 4068599.20 | 1.60 | 905.70 | -2.23 | 82002.00 |
| 541763.20 | 4068599.00 | 1.74 | 905.50 | -2.24 | 82004.00 |
| 541760.60 | 4068598.90 | 1.68 | 905.20 | -2.25 | 82006.00 |
| 541758.10 | 4068598.70 | 1.65 | 905.20 | -1.89 | 82008.00 |
| 541755.50 | 4068598.50 | 1.59 | 905.40 | -2.16 | 82010.00 |
| 541753.20 | 4068598.50 | 1.57 | 905.40 | -2.01 | 82012.00 |
| 541750.70 | 4068597.90 | 1.53 | 905.60 | -2.02 | 82014.00 |
| 541748.20 | 4068597.70 | 1.61 | 905.50 | -2.04 | 82016.00 |
| 541745.70 | 4068597.20 | 1.55 | 905.70 | -2.06 | 82018.00 |
| 541743.20 | 4068597.50 | 1.69 | 905.80 | -1.95 | 82020.00 |
| 541741.00 | 4068597.60 | 1.65 | 906.00 | -2.06 | 82022.00 |

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| 541738.50 | 4068597.40 | 1.53 | 905.90 | -2.04 | 82024.00 |
| 541736.10 | 4068596.80 | 1.68 | 905.90 | -1.93 | 82026.00 |
| 541733.50 | 4068597.00 | 1.61 | 905.80 | -2.13 | 82028.00 |
| 541730.90 | 4068597.20 | 1.90 | 905.50 | -1.88 | 82030.00 |
| 541728.20 | 4068596.90 | 1.88 | 905.50 | -1.84 | 82032.00 |
| 541725.60 | 4068596.80 | 1.76 | 905.50 | -2.00 | 82034.00 |
| 541723.20 | 4068596.30 | 1.84 | 905.60 | -1.92 | 82036.00 |
| 541720.70 | 4068596.60 | 1.68 | 905.70 | -2.05 | 82038.00 |
| 541718.10 | 4068596.60 | 1.98 | 905.60 | -2.00 | 82040.00 |
| 541715.80 | 4068596.00 | 1.77 | 905.50 | -2.00 | 82042.00 |
| 541713.30 | 4068595.70 | 1.98 | 905.60 | -2.09 | 82044.00 |
| 541710.90 | 4068595.20 | 1.98 | 905.40 | -2.05 | 82046.00 |
| 541708.40 | 4068595.10 | 2.11 | 905.50 | -1.85 | 82048.00 |
| 541706.10 | 4068594.80 | 2.01 | 905.60 | -1.98 | 82050.00 |
| 541703.80 | 4068594.80 | 1.91 | 905.60 | -2.13 | 82052.00 |
| 541701.30 | 4068595.10 | 1.99 | 905.60 | -2.09 | 82054.00 |
| 541698.80 | 4068596.00 | 1.78 | 905.50 | -2.04 | 82056.00 |
| 541696.40 | 4068596.40 | 1.86 | 905.30 | -1.86 | 82058.00 |
| 541694.00 | 4068596.20 | 1.69 | 905.50 | -1.87 | 82060.00 |
| 541691.80 | 4068596.30 | 1.73 | 905.60 | -2.02 | 82062.00 |
| 541689.40 | 4068596.20 | 1.86 | 905.50 | -2.13 | 82064.00 |
| 541686.70 | 4068596.80 | 2.01 | 905.30 | -2.32 | 82066.00 |
| 541684.30 | 4068596.60 | 2.24 | 905.30 | -2.09 | 82068.00 |
| 541681.70 | 4068596.40 | 2.48 | 905.00 | -1.62 | 82070.00 |
| 541679.10 | 4068596.10 | 2.16 | 905.20 | -1.92 | 82072.00 |
| 541676.80 | 4068595.90 | 2.22 | 905.30 | -2.09 | 82074.00 |
| 541674.30 | 4068595.70 | 2.43 | 905.30 | -2.11 | 82076.00 |
| 541671.80 | 4068595.70 | 2.59 | 905.20 | -2.11 | 82078.00 |
| 541669.10 | 4068595.60 | 2.89 | 905.00 | -1.90 | 82080.00 |
| 541666.50 | 4068596.00 | 3.41 | 905.10 | -1.97 | 82082.00 |
| 541664.00 | 4068597.00 | 3.08 | 905.20 | -1.98 | 82084.00 |
| 541661.50 | 4068597.80 | 2.89 | 905.30 | -2.03 | 82086.00 |
| 541659.00 | 4068599.00 | 3.54 | 905.40 | -1.96 | 82088.00 |
| 541656.70 | 4068600.10 | 3.49 | 905.40 | -2.00 | 82090.00 |
| 541654.00 | 4068600.60 | 3.77 | 905.30 | -2.01 | 82092.00 |
| 541651.40 | 4068600.90 | 4.22 | 905.10 | -1.93 | 82094.00 |
| 541649.00 | 4068600.80 | 3.10 | 905.30 | -2.09 | 82096.00 |
| 541647.00 | 4068601.60 | 3.16 | 905.30 | -2.16 | 82098.00 |
| 541644.70 | 4068601.90 | 3.59 | 905.20 | -2.16 | 82100.00 |
| 541642.20 | 4068601.30 | 4.10 | 905.20 | -2.07 | 82102.00 |
| 541639.60 | 4068601.50 | 3.85 | 905.10 | -2.07 | 82104.00 |
| 541637.10 | 4068602.40 | 3.76 | 905.10 | -2.06 | 82106.00 |
| 541634.50 | 4068603.00 | 3.48 | 905.00 | -2.08 | 82108.00 |
| 541631.90 | 4068603.30 | 3.48 | 905.00 | -2.11 | 82110.00 |
| 541629.30 | 4068603.70 | 3.49 | 905.10 | -2.13 | 82112.00 |
| 541626.60 | 4068603.90 | 3.16 | 905.00 | -2.03 | 82114.00 |
| 541624.00 | 4068603.80 | 2.68 | 905.00 | -2.01 | 82116.00 |
| 541621.50 | 4068604.00 | 3.26 | 905.00 | -1.96 | 82118.00 |
| 541618.90 | 4068604.60 | 3.50 | 905.00 | -1.97 | 82120.00 |
| 541616.40 | 4068604.90 | 3.05 | 905.00 | -1.97 | 82122.00 |
| 541614.00 | 4068604.90 | 3.65 | 905.00 | -2.16 | 82124.00 |
| 541611.50 | 4068605.20 | 3.04 | 905.00 | -2.23 | 82126.00 |
| 541609.00 | 4068605.00 | 2.75 | 905.00 | -2.25 | 82128.00 |
| 541606.70 | 4068603.90 | 3.49 | 904.80 | -2.27 | 82130.00 |
| 541604.50 | 4068603.00 | 3.26 | 904.50 | -1.84 | 82132.00 |
| 541601.70 | 4068603.80 | 3.13 | 904.50 | -2.87 | 82134.00 |
| 541599.30 | 4068603.50 | 2.98 | 904.60 | -2.02 | 82136.00 |

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| 541596.70 | 4068603.00 | 3.31 | 904.40 | -2.01 | 82138.00 |
| 541594.00 | 4068602.60 | 3.08 | 904.30 | -1.94 | 82140.00 |
| 541591.30 | 4068602.60 | 2.77 | 904.40 | -1.95 | 82142.00 |
| 541589.00 | 4068603.00 | 3.08 | 904.70 | -2.06 | 82144.00 |
| 541586.60 | 4068603.60 | 3.11 | 904.70 | -1.99 | 82146.00 |
| 541583.80 | 4068603.50 | 3.00 | 904.60 | -2.08 | 82148.00 |
| 541581.30 | 4068602.80 | 3.14 | 904.70 | -1.97 | 82150.00 |
| 541578.80 | 4068602.70 | 3.23 | 904.60 | -1.96 | 82152.00 |
| 541576.20 | 4068603.10 | 2.96 | 904.60 | -1.91 | 82154.00 |
| 541573.80 | 4068603.90 | 2.87 | 904.60 | -1.95 | 82156.00 |
| 541571.20 | 4068603.60 | 2.87 | 904.60 | -1.96 | 82158.00 |
| 541568.70 | 4068603.50 | 2.90 | 904.50 | -1.93 | 82160.00 |
| 541566.20 | 4068603.80 | 3.15 | 904.50 | -1.98 | 82162.00 |
| 541563.80 | 4068604.10 | 2.94 | 904.40 | -2.17 | 82164.00 |
| 541561.20 | 4068604.00 | 3.06 | 904.40 | -1.98 | 82166.00 |
| 541558.70 | 4068603.50 | 2.93 | 904.30 | -1.97 | 82168.00 |
| 541556.20 | 4068603.00 | 3.77 | 904.20 | -1.93 | 82170.00 |
| 541553.70 | 4068602.80 | 3.16 | 904.20 | -1.92 | 82172.00 |
| 541551.10 | 4068602.80 | 3.28 | 904.30 | -1.96 | 82174.00 |
| 541548.40 | 4068602.20 | 3.35 | 904.20 | -2.06 | 82176.00 |
| 541545.90 | 4068601.50 | 3.18 | 904.10 | -1.98 | 82178.00 |
| 541543.40 | 4068601.20 | 3.48 | 904.00 | -1.94 | 82180.00 |
| 541540.80 | 4068601.40 | 3.75 | 903.80 | -2.00 | 82182.00 |
| 541538.20 | 4068601.20 | 3.69 | 903.90 | -1.84 | 82184.00 |
| 541535.60 | 4068601.00 | 3.34 | 903.90 | -1.96 | 82186.00 |
| 541533.20 | 4068600.80 | 3.17 | 903.90 | -2.02 | 82188.00 |
| 541530.70 | 4068600.40 | 3.27 | 903.80 | -2.07 | 82190.00 |
| 541528.10 | 4068600.20 | 3.22 | 903.60 | -2.17 | 82192.00 |
| 541525.40 | 4068599.90 | 3.09 | 903.50 | -2.07 | 82194.00 |
| 541522.80 | 4068599.90 | 2.90 | 903.50 | -2.24 | 82196.00 |
| 541520.40 | 4068600.20 | 2.89 | 903.50 | -2.27 | 82198.00 |
| 541517.70 | 4068600.10 | 2.60 | 903.40 | -2.32 | 82200.00 |
| 541515.30 | 4068599.60 | 2.62 | 903.30 | -2.06 | 82202.00 |
| 541512.90 | 4068599.90 | 2.48 | 903.20 | -2.23 | 82204.00 |
| 541510.50 | 4068600.50 | 1.28 | 903.20 | -4.22 | 82206.00 |
| 541508.10 | 4068599.90 | 2.79 | 903.20 | -1.86 | 82208.00 |
| 541505.80 | 4068599.30 | 2.30 | 903.20 | -2.24 | 82210.00 |
| 541503.80 | 4068599.20 | 2.49 | 903.20 | -2.30 | 82212.00 |
| 541502.20 | 4068599.70 | 2.51 | 903.10 | -2.14 | 82214.00 |
| 541500.40 | 4068600.20 | 2.89 | 903.00 | -2.01 | 82216.00 |
| 541496.90 | 4068601.20 | 2.56 | 903.10 | -1.83 | 82234.50 |
| 541496.80 | 4068601.60 | 2.63 | 903.20 | -1.88 | 82236.00 |
| 541496.70 | 4068603.30 | 2.31 | 903.20 | -1.96 | 82238.00 |
| 541496.50 | 4068605.50 | 2.72 | 903.30 | -1.91 | 82240.00 |
| 541496.20 | 4068608.10 | 2.34 | 903.40 | -1.93 | 82242.00 |
| 541495.70 | 4068610.40 | 2.37 | 903.40 | -2.00 | 82244.00 |
| 541495.80 | 4068612.80 | 2.92 | 903.30 | -2.02 | 82246.00 |
| 541496.10 | 4068615.30 | 2.84 | 903.40 | -1.97 | 82248.00 |
| 541495.90 | 4068617.60 | 3.10 | 903.50 | -1.92 | 82250.00 |
| 541495.10 | 4068619.90 | 3.10 | 903.40 | -2.00 | 82252.00 |
| 541494.70 | 4068622.20 | 3.21 | 903.20 | -2.07 | 82254.00 |
| 541494.90 | 4068624.90 | 3.33 | 903.20 | -2.12 | 82256.00 |
| 541494.80 | 4068627.10 | 3.04 | 903.60 | -1.94 | 82258.00 |
| 541494.50 | 4068629.10 | 2.95 | 903.90 | -2.00 | 82260.00 |
| 541494.30 | 4068631.50 | 2.97 | 904.00 | -1.99 | 82262.00 |
| 541494.20 | 4068633.80 | 2.94 | 903.90 | -1.93 | 82264.00 |
| 541494.40 | 4068636.30 | 2.98 | 904.00 | -1.91 | 82266.00 |

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| 541495.00 | 4068638.60 | 3.07 | 904.10 | -1.99 | 82268.00 |
| 541494.70 | 4068641.10 | 3.20 | 904.10 | -1.98 | 82270.00 |
| 541494.90 | 4068643.50 | 3.21 | 904.20 | -1.87 | 82272.00 |
| 541494.40 | 4068645.80 | 3.38 | 904.20 | -1.95 | 82274.00 |
| 541493.60 | 4068648.00 | 3.13 | 904.20 | -2.00 | 82276.00 |
| 541493.50 | 4068650.10 | 3.19 | 904.20 | -2.06 | 82278.00 |
| 541493.60 | 4068652.80 | 3.39 | 904.30 | -1.84 | 82346.00 |
| 541494.10 | 4068652.60 | 3.28 | 904.30 | -1.86 | 82348.00 |
| 541495.50 | 4068652.50 | 3.36 | 904.30 | -1.84 | 82350.00 |
| 541497.40 | 4068652.10 | 3.16 | 904.30 | -1.93 | 82352.00 |
| 541499.70 | 4068652.10 | 3.04 | 904.40 | -1.94 | 82354.00 |
| 541502.10 | 4068651.90 | 3.30 | 904.50 | -1.93 | 82356.00 |
| 541504.40 | 4068651.50 | 3.27 | 904.50 | -2.15 | 82358.00 |
| 541509.40 | 4068648.00 | 3.63 | 904.90 | -1.67 | 85063.00 |
| 541509.40 | 4068648.00 | 2.80 | 904.90 | -1.58 | 85065.00 |
| 541509.60 | 4068647.80 | 2.91 | 904.90 | -1.65 | 85067.00 |
| 541510.30 | 4068648.20 | 2.40 | 904.90 | -1.94 | 85069.00 |
| 541512.80 | 4068648.10 | 2.68 | 905.00 | -2.09 | 85071.00 |
| 541515.30 | 4068647.70 | 2.63 | 904.60 | -2.01 | 85073.00 |
| 541517.90 | 4068646.60 | 2.55 | 904.60 | -1.97 | 85075.00 |
| 541520.30 | 4068646.20 | 2.45 | 904.60 | -1.99 | 85077.00 |
| 541523.00 | 4068645.60 | 2.48 | 904.70 | -2.00 | 85079.00 |
| 541525.50 | 4068646.30 | 2.24 | 904.80 | -1.96 | 85081.00 |
| 541527.80 | 4068647.30 | 2.24 | 904.80 | -1.91 | 85083.00 |
| 541529.00 | 4068647.70 | 2.26 | 904.80 | -1.89 | 85084.00 |
| 541532.80 | 4068648.80 | 2.17 | 905.00 | -1.88 | 85087.00 |
| 541535.50 | 4068649.40 | 2.22 | 905.00 | -1.93 | 85089.00 |
| 541537.60 | 4068650.50 | 2.23 | 905.10 | -1.90 | 85091.00 |
| 541540.00 | 4068650.70 | 2.40 | 905.10 | -1.85 | 85093.00 |
| 541542.70 | 4068651.10 | 2.46 | 905.10 | -2.05 | 85095.00 |
| 541545.20 | 4068651.30 | 2.84 | 905.20 | -1.87 | 85097.00 |
| 541547.70 | 4068651.30 | 2.63 | 905.10 | -1.70 | 85099.00 |
| 541550.40 | 4068651.80 | 2.08 | 905.30 | -1.85 | 85101.00 |
| 541552.50 | 4068651.20 | 2.48 | 905.60 | -1.94 | 85103.00 |
| 541554.80 | 4068650.60 | 2.65 | 905.70 | -1.92 | 85105.00 |
| 541557.30 | 4068649.70 | 2.66 | 905.70 | -1.83 | 85107.00 |
| 541559.60 | 4068649.10 | 2.48 | 905.80 | -1.92 | 85109.00 |
| 541561.80 | 4068648.20 | 2.43 | 905.80 | -2.21 | 85111.00 |
| 541564.30 | 4068648.50 | 2.67 | 905.70 | -2.16 | 85113.00 |
| 541566.80 | 4068648.60 | 2.85 | 905.60 | -2.17 | 85115.00 |
| 541569.40 | 4068648.70 | 3.04 | 905.60 | -2.02 | 85117.00 |
| 541571.80 | 4068648.50 | 2.73 | 905.80 | -1.96 | 85119.00 |
| 541574.00 | 4068648.00 | 2.87 | 905.80 | -2.14 | 85121.00 |
| 541576.30 | 4068647.50 | 2.89 | 906.00 | -2.04 | 85123.00 |
| 541578.80 | 4068647.30 | 2.96 | 905.90 | -1.93 | 85125.00 |
| 541581.20 | 4068647.00 | 2.88 | 906.00 | -1.95 | 85127.00 |
| 541582.40 | 4068646.50 | 2.69 | 906.00 | -1.99 | 85128.00 |
| 541586.00 | 4068645.90 | 2.65 | 906.10 | -1.91 | 85131.00 |
| 541588.40 | 4068645.60 | 2.77 | 906.00 | -1.99 | 85133.00 |
| 541590.90 | 4068645.70 | 2.70 | 906.10 | -1.98 | 85135.00 |
| 541593.30 | 4068645.90 | 2.74 | 906.20 | -1.89 | 85137.00 |
| 541595.80 | 4068646.00 | 2.68 | 906.10 | -2.19 | 85139.00 |
| 541598.30 | 4068646.30 | 2.59 | 906.10 | -1.99 | 85141.00 |
| 541600.60 | 4068646.50 | 2.43 | 906.20 | -1.96 | 85143.00 |
| 541603.10 | 4068646.80 | 2.43 | 906.20 | -2.04 | 85145.00 |
| 541605.30 | 4068647.20 | 2.36 | 906.20 | -2.00 | 85147.00 |
| 541607.80 | 4068647.00 | 2.47 | 906.10 | -1.96 | 85149.00 |

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| 541610.40 | 4068646.80 | 2.46 | 906.00 | -1.90 | 85151.00 |
| 541612.90 | 4068646.90 | 2.94 | 906.00 | -1.98 | 85153.00 |
| 541615.50 | 4068646.80 | 2.66 | 905.90 | -1.82 | 85155.00 |
| 541618.00 | 4068646.90 | 2.58 | 906.10 | -1.81 | 85157.00 |
| 541620.30 | 4068647.60 | 2.96 | 906.30 | -1.78 | 85159.00 |
| 541622.60 | 4068648.70 | 3.04 | 906.40 | -1.83 | 85161.00 |
| 541624.70 | 4068650.00 | 2.75 | 906.40 | -1.91 | 85163.00 |
| 541627.00 | 4068651.00 | 2.96 | 906.50 | -1.99 | 85165.00 |
| 541629.40 | 4068650.80 | 2.84 | 906.50 | -2.14 | 85167.00 |
| 541631.90 | 4068650.20 | 2.98 | 906.50 | -2.01 | 85169.00 |
| 541634.40 | 4068649.90 | 2.87 | 906.50 | -1.92 | 85171.00 |
| 541635.60 | 4068649.50 | 2.88 | 906.60 | -2.00 | 85172.00 |
| 541639.20 | 4068649.40 | 2.93 | 906.70 | -1.90 | 85175.00 |
| 541641.60 | 4068649.10 | 2.79 | 906.70 | -2.02 | 85177.00 |
| 541643.80 | 4068648.40 | 2.78 | 906.70 | -2.07 | 85179.00 |
| 541646.30 | 4068648.00 | 3.44 | 906.70 | -2.07 | 85181.00 |
| 541648.90 | 4068648.10 | 3.51 | 906.60 | -1.85 | 85183.00 |
| 541651.40 | 4068648.30 | 3.54 | 906.60 | -1.81 | 85185.00 |
| 541654.00 | 4068648.40 | 3.10 | 906.60 | -1.64 | 85187.00 |
| 541656.40 | 4068648.00 | 2.87 | 906.80 | -1.87 | 85189.00 |
| 541658.80 | 4068647.80 | 3.03 | 906.80 | -1.97 | 85191.00 |
| 541661.40 | 4068647.80 | 2.84 | 906.80 | -1.99 | 85193.00 |
| 541663.90 | 4068648.10 | 2.62 | 906.90 | -1.99 | 85195.00 |
| 541666.40 | 4068648.30 | 2.36 | 907.00 | -1.98 | 85197.00 |
| 541669.00 | 4068648.50 | 2.33 | 907.00 | -2.02 | 85199.00 |
| 541671.50 | 4068648.60 | 2.37 | 907.00 | -2.01 | 85201.00 |
| 541674.00 | 4068649.20 | 2.49 | 907.00 | -2.01 | 85203.00 |
| 541676.50 | 4068649.70 | 2.36 | 907.00 | -2.06 | 85205.00 |
| 541679.20 | 4068649.60 | 2.35 | 907.00 | -2.10 | 85207.00 |
| 541681.70 | 4068649.90 | 2.65 | 907.00 | -2.00 | 85209.00 |
| 541684.10 | 4068650.30 | 2.84 | 906.90 | -1.95 | 85211.00 |
| 541686.60 | 4068650.60 | 2.50 | 907.10 | -1.94 | 85213.00 |
| 541688.80 | 4068650.50 | 2.67 | 907.20 | -1.86 | 85215.00 |
| 541690.00 | 4068650.50 | 2.50 | 907.20 | -1.96 | 85216.00 |
| 541693.40 | 4068650.10 | 2.52 | 907.20 | -2.06 | 85219.00 |
| 541695.90 | 4068650.20 | 2.88 | 907.00 | -2.16 | 85221.00 |
| 541697.20 | 4068650.30 | 2.80 | 906.80 | -1.68 | 85222.00 |
| 541700.90 | 4068650.80 | 2.40 | 907.10 | -1.97 | 85225.00 |
| 541703.20 | 4068651.00 | 2.72 | 907.00 | -1.79 | 85227.00 |
| 541705.50 | 4068651.60 | 2.63 | 907.10 | -2.06 | 85229.00 |
| 541707.80 | 4068651.00 | 2.16 | 907.00 | -1.98 | 85231.00 |
| 541710.00 | 4068650.10 | 2.41 | 907.10 | -1.97 | 85233.00 |
| 541711.20 | 4068649.80 | 2.33 | 907.00 | -2.07 | 85234.00 |
| 541715.10 | 4068650.00 | 2.19 | 907.10 | -1.85 | 85237.00 |
| 541717.60 | 4068650.10 | 2.13 | 907.10 | -1.89 | 85239.00 |
| 541718.70 | 4068650.40 | 1.96 | 907.20 | -1.75 | 85240.00 |
| 541722.50 | 4068650.20 | 1.72 | 907.10 | -1.86 | 85243.00 |
| 541724.90 | 4068650.10 | 1.70 | 907.30 | -1.90 | 85245.00 |
| 541727.30 | 4068649.80 | 1.61 | 907.40 | -1.91 | 85247.00 |
| 541729.90 | 4068649.80 | 1.56 | 907.50 | -2.01 | 85249.00 |
| 541732.60 | 4068650.00 | 1.70 | 907.40 | -1.87 | 85251.00 |
| 541734.90 | 4068650.40 | 1.50 | 907.50 | -1.96 | 85253.00 |
| 541737.20 | 4068650.40 | 1.56 | 907.50 | -2.00 | 85255.00 |
| 541739.90 | 4068650.30 | 1.54 | 907.50 | -1.97 | 85257.00 |
| 541742.40 | 4068650.60 | 1.79 | 907.50 | -1.97 | 85259.00 |
| 541744.80 | 4068650.50 | 1.89 | 907.40 | -1.98 | 85261.00 |
| 541747.40 | 4068651.10 | 1.76 | 907.30 | -1.91 | 85263.00 |

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| 541749.90 | 4068651.90 | 1.77 | 907.20 | -2.07 | 85265.00 |
| 541752.40 | 4068652.10 | 1.79 | 907.30 | -1.75 | 85267.00 |
| 541754.60 | 4068651.60 | 1.44 | 907.40 | -2.19 | 85269.00 |
| 541757.00 | 4068651.90 | 1.63 | 907.20 | -1.93 | 85271.00 |
| 541759.40 | 4068651.60 | 1.64 | 907.20 | -1.99 | 85273.00 |
| 541762.30 | 4068651.50 | 1.79 | 906.90 | -1.92 | 85275.00 |
| 541765.00 | 4068651.30 | 1.76 | 907.10 | -1.68 | 85277.00 |
| 541767.20 | 4068651.30 | 1.70 | 907.30 | -1.86 | 85279.00 |
| 541769.70 | 4068651.00 | 1.46 | 907.40 | -2.02 | 85281.00 |
| 541771.00 | 4068651.00 | 1.69 | 907.40 | -1.94 | 85282.00 |
| 541774.80 | 4068651.10 | 1.69 | 907.40 | -1.80 | 85285.00 |
| 541777.30 | 4068651.10 | 1.48 | 907.50 | -2.07 | 85287.00 |
| 541779.70 | 4068651.10 | 1.75 | 907.40 | -1.76 | 85289.00 |
| 541782.20 | 4068651.20 | 1.70 | 907.50 | -2.09 | 85291.00 |
| 541784.60 | 4068651.10 | 2.10 | 907.10 | -1.82 | 85293.00 |
| 541787.00 | 4068651.30 | 2.01 | 907.30 | -1.99 | 85295.00 |
| 541789.50 | 4068651.50 | 2.00 | 907.20 | -1.87 | 85297.00 |
| 541791.90 | 4068652.30 | 2.08 | 907.40 | -1.95 | 85299.00 |
| 541794.10 | 4068652.60 | 2.33 | 907.20 | -1.98 | 85301.00 |
| 541796.50 | 4068653.20 | 2.66 | 907.20 | -1.73 | 85303.00 |
| 541798.70 | 4068653.80 | 2.10 | 907.60 | -1.88 | 85305.00 |
| 541800.80 | 4068653.90 | 2.22 | 907.70 | -1.76 | 85307.00 |
| 541803.30 | 4068654.00 | 2.28 | 907.80 | -1.95 | 85309.00 |
| 541805.60 | 4068654.50 | 2.09 | 907.90 | -1.91 | 85311.00 |
| 541808.20 | 4068654.30 | 2.12 | 907.90 | -1.91 | 85313.00 |
| 541810.40 | 4068654.80 | 2.01 | 908.00 | -1.89 | 85315.00 |
| 541812.70 | 4068655.50 | 2.13 | 908.00 | -1.94 | 85317.00 |
| 541814.00 | 4068655.60 | 2.21 | 908.00 | -2.01 | 85318.00 |
| 541817.80 | 4068655.90 | 2.15 | 907.90 | -1.97 | 85321.00 |
| 541820.40 | 4068655.90 | 2.36 | 908.00 | -1.98 | 85323.00 |
| 541822.90 | 4068655.80 | 2.33 | 908.20 | -1.80 | 85325.00 |
| 541825.20 | 4068656.00 | 2.14 | 908.30 | -1.96 | 85327.00 |
| 541827.40 | 4068655.00 | 2.13 | 908.40 | -2.06 | 85329.00 |
| 541828.70 | 4068654.80 | 2.13 | 908.40 | -2.11 | 85330.00 |
| 541832.40 | 4068653.50 | 2.21 | 908.30 | -2.11 | 85333.00 |
| 541835.10 | 4068653.10 | 2.03 | 908.00 | -2.10 | 85335.00 |
| 541837.50 | 4068652.10 | 2.31 | 907.90 | -2.03 | 85337.00 |
| 541840.30 | 4068652.10 | 2.29 | 907.80 | -2.05 | 85339.00 |
| 541842.90 | 4068651.60 | 1.98 | 907.70 | -1.88 | 85341.00 |
| 541845.60 | 4068651.10 | 2.10 | 907.80 | -1.72 | 85343.00 |
| 541848.10 | 4068650.90 | 2.09 | 907.90 | -1.87 | 85345.00 |
| 541850.70 | 4068650.60 | 1.91 | 908.00 | -1.94 | 85347.00 |
| 541853.20 | 4068650.70 | 1.89 | 907.90 | -1.97 | 85349.00 |
| 541855.70 | 4068651.10 | 2.00 | 908.00 | -1.96 | 85351.00 |
| 541858.20 | 4068651.50 | 1.90 | 908.00 | -1.97 | 85353.00 |
| 541859.60 | 4068651.60 | 2.00 | 908.00 | -1.86 | 85354.00 |
| 541863.10 | 4068652.00 | 1.77 | 908.10 | -1.89 | 85357.00 |
| 541865.70 | 4068651.40 | 1.95 | 908.20 | -1.85 | 85359.00 |
| 541867.00 | 4068651.20 | 1.93 | 908.20 | -1.89 | 85360.00 |
| 541870.80 | 4068651.10 | 1.63 | 908.50 | -1.91 | 85363.00 |
| 541873.40 | 4068651.30 | 1.61 | 908.50 | -1.96 | 85365.00 |
| 541875.90 | 4068651.20 | 1.38 | 908.70 | -2.06 | 85367.00 |
| 541878.30 | 4068650.80 | 1.38 | 908.70 | -2.04 | 85369.00 |
| 541880.70 | 4068650.30 | 1.53 | 908.50 | -2.14 | 85371.00 |
| 541883.40 | 4068649.80 | 1.63 | 908.50 | -2.15 | 85373.00 |
| 541885.80 | 4068649.50 | 1.56 | 908.30 | -2.04 | 85375.00 |
| 541888.10 | 4068649.00 | 1.46 | 908.30 | -2.10 | 85377.00 |

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| 541890.30 | 4068648.40 | 1.74 | 908.30 | -2.12 | 85379.00 |
| 541892.60 | 4068647.80 | 2.25 | 908.00 | -2.17 | 85381.00 |
| 541894.70 | 4068648.20 | 2.93 | 907.90 | -2.18 | 85383.00 |
| 541896.80 | 4068647.00 | 2.98 | 908.00 | -2.31 | 85385.00 |
| 541897.90 | 4068646.80 | 3.39 | 908.10 | -2.48 | 85386.00 |
| 541901.20 | 4068646.40 | 4.47 | 908.30 | -2.29 | 85389.00 |
| 541902.70 | 4068646.20 | 4.88 | 908.80 | -2.24 | 85391.00 |
| 541904.00 | 4068645.80 | 4.60 | 909.30 | -2.27 | 85393.00 |
| 541905.50 | 4068645.40 | 4.24 | 909.50 | -2.33 | 85395.00 |
| 541907.40 | 4068645.00 | 5.24 | 909.60 | -2.33 | 85397.00 |
| 541909.70 | 4068644.90 | 6.49 | 909.70 | -2.37 | 85399.00 |
| 541911.70 | 4068644.60 | 6.83 | 909.80 | -2.46 | 85401.00 |
| 541914.00 | 4068644.30 | 7.13 | 909.90 | -2.42 | 85403.00 |
| 541916.30 | 4068644.50 | 7.27 | 909.90 | -2.34 | 85405.00 |
| 541918.60 | 4068645.40 | 8.40 | 910.00 | -2.35 | 85407.00 |
| 541920.90 | 4068646.00 | 10.81 | 910.00 | -2.38 | 85409.00 |
| 541923.30 | 4068646.10 | 9.87 | 910.00 | -2.25 | 85411.00 |
| 541925.80 | 4068646.80 | 7.32 | 910.00 | -2.38 | 85413.00 |
| 541927.90 | 4068648.10 | 6.57 | 910.10 | -2.50 | 85415.00 |
| 541930.10 | 4068648.60 | 7.06 | 910.20 | -2.63 | 85417.00 |
| 541932.40 | 4068648.00 | 8.16 | 910.10 | -2.55 | 85419.00 |
| 541934.80 | 4068648.50 | 7.07 | 910.10 | -2.61 | 85421.00 |
| 541937.30 | 4068648.90 | 6.44 | 910.10 | -2.50 | 85423.00 |
| 541939.60 | 4068649.40 | 5.97 | 910.20 | -2.49 | 85425.00 |
| 541941.90 | 4068649.70 | 6.51 | 910.30 | -2.44 | 85427.00 |
| 541944.30 | 4068649.90 | 7.06 | 910.50 | -2.45 | 85429.00 |
| 541946.40 | 4068651.10 | 7.08 | 910.50 | -2.42 | 85431.00 |
| 541948.50 | 4068652.70 | 7.32 | 910.60 | -2.37 | 85433.00 |
| 541950.90 | 4068653.20 | 7.35 | 910.70 | -2.40 | 85435.00 |
| 541953.60 | 4068653.50 | 7.38 | 910.70 | -2.40 | 85437.00 |
| 541956.00 | 4068654.20 | 6.57 | 910.80 | -2.36 | 85439.00 |
| 541958.50 | 4068654.80 | 6.10 | 910.90 | -2.38 | 85441.00 |
| 541959.80 | 4068655.10 | 6.47 | 910.90 | -2.39 | 85442.00 |
| 541963.40 | 4068655.60 | 5.97 | 910.90 | -2.28 | 85445.00 |
| 541965.80 | 4068656.20 | 6.53 | 911.00 | -2.31 | 85447.00 |
| 541968.20 | 4068656.40 | 6.09 | 911.10 | -2.36 | 85449.00 |
| 541970.20 | 4068654.80 | 6.68 | 911.10 | -2.20 | 85451.00 |
| 541972.60 | 4068654.40 | 7.21 | 911.10 | -2.29 | 85453.00 |
| 541975.30 | 4068654.80 | 7.06 | 911.10 | -2.24 | 85455.00 |
| 541978.10 | 4068655.40 | 7.51 | 911.20 | -2.27 | 85457.00 |
| 541980.70 | 4068655.90 | 7.14 | 911.20 | -2.28 | 85459.00 |
| 541983.30 | 4068656.70 | 7.55 | 911.20 | -2.32 | 85461.00 |
| 541985.90 | 4068656.70 | 8.00 | 911.20 | -2.29 | 85463.00 |
| 541988.50 | 4068656.60 | 6.92 | 911.20 | -2.36 | 85465.00 |
| 541991.00 | 4068656.20 | 7.96 | 911.30 | -2.37 | 85467.00 |
| 541993.10 | 4068655.00 | 9.19 | 911.10 | -2.35 | 85469.00 |
| 541995.50 | 4068654.40 | 9.43 | 911.20 | -2.35 | 85471.00 |
| 541997.90 | 4068654.30 | 8.02 | 911.20 | -2.32 | 85473.00 |
| 542000.40 | 4068654.50 | 9.41 | 911.20 | -2.37 | 85475.00 |
| 542002.80 | 4068654.80 | 8.15 | 911.30 | -2.32 | 85477.00 |
| 542005.30 | 4068654.90 | 8.39 | 911.30 | -2.33 | 85479.00 |
| 542007.80 | 4068654.90 | 8.21 | 911.30 | -2.35 | 85481.00 |
| 542010.20 | 4068655.30 | 7.99 | 911.20 | -2.23 | 85483.00 |
| 542012.50 | 4068654.30 | 7.98 | 911.20 | -2.12 | 85485.00 |
| 542015.10 | 4068653.80 | 7.75 | 911.40 | -2.17 | 85487.00 |
| 542017.50 | 4068653.70 | 7.09 | 911.40 | -2.26 | 85489.00 |
| 542019.90 | 4068653.50 | 7.42 | 911.50 | -2.16 | 85491.00 |

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| 542021.20 | 4068653.10 | 8.08 | 911.60 | -2.19 | 85492.00 |
| 542025.00 | 4068652.20 | 8.10 | 911.70 | -2.15 | 85495.00 |
| 542027.60 | 4068651.90 | 7.58 | 911.70 | -2.16 | 85497.00 |
| 542030.10 | 4068651.90 | 7.80 | 911.80 | -2.24 | 85499.00 |
| 542032.60 | 4068652.10 | 7.80 | 911.90 | -2.20 | 85501.00 |
| 542035.20 | 4068652.30 | 7.07 | 911.90 | -2.08 | 85503.00 |
| 542037.60 | 4068652.30 | 8.18 | 912.00 | -2.11 | 85505.00 |
| 542040.20 | 4068652.60 | 7.59 | 912.10 | -2.15 | 85507.00 |
| 542042.90 | 4068652.80 | 6.53 | 912.10 | -2.10 | 85509.00 |
| 542045.50 | 4068653.00 | 6.80 | 912.10 | -2.13 | 85511.00 |
| 542048.10 | 4068652.90 | 6.76 | 912.20 | -2.14 | 85513.00 |
| 542050.60 | 4068653.20 | 6.99 | 912.20 | -2.04 | 85515.00 |
| 542053.20 | 4068653.30 | 6.46 | 912.30 | -2.13 | 85517.00 |
| 542055.60 | 4068653.60 | 6.25 | 912.40 | -2.13 | 85519.00 |
| 542058.00 | 4068653.00 | 5.43 | 912.40 | -2.23 | 85521.00 |
| 542060.70 | 4068652.70 | 5.39 | 912.40 | -2.40 | 85523.00 |
| 542063.40 | 4068652.90 | 5.33 | 912.60 | -2.34 | 85525.00 |
| 542065.90 | 4068653.20 | 5.06 | 912.60 | -2.39 | 85527.00 |
| 542068.40 | 4068653.10 | 4.70 | 912.60 | -2.41 | 85529.00 |
| 542070.80 | 4068652.50 | 4.52 | 912.60 | -2.10 | 85531.00 |
| 542073.00 | 4068651.40 | 4.84 | 912.50 | -2.41 | 85533.00 |
| 542075.30 | 4068650.40 | 4.75 | 912.50 | -2.47 | 85535.00 |
| 542077.80 | 4068650.00 | 4.40 | 912.50 | -2.41 | 85537.00 |
| 542080.30 | 4068650.10 | 4.70 | 912.50 | -2.39 | 85539.00 |
| 542082.80 | 4068650.20 | 4.38 | 912.40 | -2.53 | 85541.00 |
| 542085.30 | 4068650.00 | 4.32 | 912.30 | -2.55 | 85543.00 |
| 542086.50 | 4068650.10 | 4.57 | 912.30 | -2.50 | 85544.00 |
| 542089.80 | 4068649.00 | 4.28 | 912.30 | -2.60 | 85547.00 |
| 542092.00 | 4068647.90 | 4.68 | 912.20 | -2.76 | 85549.00 |
| 542094.20 | 4068647.50 | 5.14 | 912.30 | -2.78 | 85551.00 |
| 542096.60 | 4068647.00 | 5.05 | 912.10 | -2.84 | 85553.00 |
| 542099.00 | 4068647.10 | 5.11 | 912.10 | -3.11 | 85555.00 |
| 542100.00 | 4068647.10 | 5.60 | 912.10 | -3.26 | 85556.00 |
| 542102.70 | 4068644.90 | 5.50 | 911.90 | -3.04 | 85583.00 |
| 542102.70 | 4068644.90 | 5.54 | 911.90 | -3.14 | 85584.00 |
| 542103.20 | 4068646.20 | 5.17 | 912.00 | -3.15 | 85586.00 |
| 542103.80 | 4068648.20 | 5.13 | 912.00 | -2.97 | 85588.00 |
| 542103.40 | 4068650.20 | 4.84 | 912.20 | -2.74 | 85590.00 |
| 542102.60 | 4068652.20 | 5.04 | 912.40 | -2.67 | 85592.00 |
| 542102.20 | 4068654.40 | 5.10 | 912.50 | -2.58 | 85594.00 |
| 542102.20 | 4068656.80 | 5.40 | 912.60 | -2.72 | 85596.00 |
| 542101.70 | 4068659.00 | 4.73 | 912.70 | -2.40 | 85598.00 |
| 542101.50 | 4068661.20 | 5.13 | 912.80 | -2.59 | 85600.00 |
| 542101.30 | 4068663.40 | 5.28 | 912.90 | -2.75 | 85602.00 |
| 542101.10 | 4068665.70 | 5.22 | 913.00 | -2.54 | 85604.00 |
| 542101.40 | 4068668.00 | 4.78 | 913.10 | -2.96 | 85606.00 |
| 542101.40 | 4068670.20 | 5.03 | 913.20 | -2.62 | 85608.00 |
| 542100.50 | 4068672.40 | 5.11 | 913.20 | -2.52 | 85610.00 |
| 542100.30 | 4068674.90 | 4.97 | 913.30 | -2.65 | 85612.00 |
| 542100.90 | 4068677.10 | 4.99 | 913.40 | -2.66 | 85614.00 |
| 542101.60 | 4068679.50 | 5.24 | 913.50 | -2.75 | 85616.00 |
| 542101.80 | 4068681.90 | 5.34 | 913.60 | -2.58 | 85618.00 |
| 542101.50 | 4068684.40 | 5.58 | 913.60 | -2.90 | 85620.00 |
| 542101.40 | 4068687.00 | 6.18 | 913.70 | -2.88 | 85622.00 |
| 542101.00 | 4068689.40 | 5.97 | 913.80 | -2.84 | 85624.00 |
| 542100.90 | 4068691.80 | 5.84 | 913.90 | -2.92 | 85626.00 |
| 542100.40 | 4068694.10 | 5.89 | 913.90 | -2.65 | 85628.00 |

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| 542100.10 | 4068696.30 | 5.40 | 913.90 | -2.79 | 85630.00 |
| 542100.30 | 4068698.40 | 5.67 | 914.00 | -2.75 | 85632.00 |
| 542100.00 | 4068700.10 | 5.51 | 914.00 | -2.65 | 85634.00 |
| 542100.90 | 4068700.90 | 5.88 | 914.00 | -2.53 | 85710.00 |
| 542100.60 | 4068700.90 | 6.40 | 914.00 | -2.59 | 85711.00 |
| 542099.40 | 4068700.70 | 6.13 | 914.00 | -2.54 | 85713.00 |
| 542097.00 | 4068700.70 | 5.55 | 914.00 | -2.58 | 85715.00 |
| 542094.40 | 4068701.10 | 4.67 | 914.00 | -2.51 | 85717.00 |
| 542092.00 | 4068701.70 | 6.08 | 913.90 | -2.63 | 85719.00 |
| 542089.40 | 4068702.20 | 5.67 | 913.90 | -2.31 | 85721.00 |
| 542086.90 | 4068702.30 | 5.83 | 913.80 | -2.45 | 85723.00 |
| 542084.40 | 4068702.80 | 5.29 | 913.90 | -2.39 | 85725.00 |
| 542082.00 | 4068703.40 | 5.50 | 913.80 | -2.56 | 85727.00 |
| 542079.50 | 4068703.40 | 5.01 | 913.70 | -2.63 | 85729.00 |
| 542076.90 | 4068703.30 | 4.85 | 913.70 | -2.61 | 85731.00 |
| 542074.30 | 4068703.30 | 4.91 | 913.60 | -2.75 | 85733.00 |
| 542071.70 | 4068703.30 | 4.94 | 913.60 | -2.78 | 85735.00 |
| 542069.30 | 4068704.00 | 5.22 | 913.50 | -2.75 | 85737.00 |
| 542066.90 | 4068704.50 | 5.44 | 913.50 | -2.71 | 85739.00 |
| 542064.30 | 4068704.70 | 6.15 | 913.40 | -2.66 | 85741.00 |
| 542061.90 | 4068704.70 | 6.29 | 913.40 | -2.71 | 85743.00 |
| 542059.40 | 4068703.90 | 6.79 | 913.20 | -2.52 | 85745.00 |
| 542056.90 | 4068703.30 | 7.04 | 913.20 | -2.59 | 85747.00 |
| 542054.40 | 4068703.00 | 6.42 | 913.10 | -2.48 | 85749.00 |
| 542051.70 | 4068702.80 | 5.87 | 913.10 | -2.48 | 85751.00 |
| 542049.10 | 4068702.50 | 6.13 | 913.00 | -2.51 | 85753.00 |
| 542046.60 | 4068702.20 | 6.92 | 912.90 | -2.42 | 85755.00 |
| 542044.20 | 4068702.50 | 7.20 | 912.80 | -2.32 | 85757.00 |
| 542041.60 | 4068702.70 | 6.41 | 912.70 | -2.29 | 85759.00 |
| 542039.00 | 4068703.00 | 5.75 | 912.80 | -2.26 | 85761.00 |
| 542036.40 | 4068703.20 | 4.86 | 912.80 | -2.24 | 85763.00 |
| 542033.90 | 4068703.60 | 6.99 | 912.70 | -2.35 | 85765.00 |
| 542031.20 | 4068703.90 | 8.61 | 912.60 | -2.23 | 85767.00 |
| 542028.50 | 4068703.20 | 8.71 | 912.60 | -2.31 | 85769.00 |
| 542025.80 | 4068703.00 | 7.37 | 912.60 | -2.19 | 85771.00 |
| 542023.20 | 4068702.90 | 7.76 | 912.60 | -2.26 | 85773.00 |
| 542020.60 | 4068702.90 | 9.72 | 912.60 | -2.25 | 85775.00 |
| 542017.90 | 4068702.80 | 9.04 | 912.60 | -2.23 | 85777.00 |
| 542015.40 | 4068702.90 | 7.49 | 912.50 | -2.18 | 85779.00 |
| 542013.10 | 4068703.70 | 7.92 | 912.60 | -2.24 | 85781.00 |
| 542010.80 | 4068704.60 | 9.00 | 912.60 | -2.23 | 85783.00 |
| 542008.40 | 4068705.00 | 7.91 | 912.50 | -2.07 | 85785.00 |
| 542005.90 | 4068705.40 | 7.90 | 912.60 | -2.17 | 85787.00 |
| 542003.70 | 4068706.80 | 8.03 | 912.60 | -2.19 | 85789.00 |
| 542001.50 | 4068708.00 | 7.69 | 912.50 | -2.19 | 85791.00 |
| 541999.00 | 4068708.70 | 6.88 | 912.60 | -2.17 | 85793.00 |
| 541996.50 | 4068708.00 | 7.03 | 912.60 | -2.28 | 85795.00 |
| 541994.00 | 4068706.90 | 7.16 | 912.50 | -2.27 | 85797.00 |
| 541991.30 | 4068706.60 | 6.51 | 912.50 | -2.28 | 85799.00 |
| 541988.60 | 4068707.00 | 6.54 | 912.40 | -2.29 | 85801.00 |
| 541986.00 | 4068707.50 | 6.61 | 912.30 | -2.28 | 85803.00 |
| 541983.40 | 4068707.40 | 5.79 | 912.30 | -2.23 | 85805.00 |
| 541980.80 | 4068707.20 | 5.89 | 912.20 | -2.27 | 85807.00 |
| 541978.40 | 4068706.70 | 6.00 | 912.20 | -2.20 | 85809.00 |
| 541976.00 | 4068705.70 | 6.07 | 912.00 | -2.28 | 85811.00 |
| 541973.60 | 4068705.00 | 6.01 | 911.90 | -2.30 | 85813.00 |
| 541971.00 | 4068704.50 | 5.51 | 911.90 | -2.51 | 85815.00 |

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| 541968.50 | 4068704.20 | 5.64 | 911.90 | -2.64 | 85817.00 |
| 541965.90 | 4068704.00 | 5.98 | 911.70 | -2.86 | 85819.00 |
| 541963.30 | 4068703.40 | 6.27 | 911.50 | -2.96 | 85821.00 |
| 541960.90 | 4068702.70 | 4.94 | 911.50 | -3.08 | 85823.00 |
| 541958.50 | 4068702.10 | 5.00 | 911.50 | -3.05 | 85825.00 |
| 541956.10 | 4068701.80 | 5.60 | 911.30 | -3.18 | 85827.00 |
| 541953.80 | 4068700.90 | 4.74 | 911.30 | -3.20 | 85829.00 |
| 541951.60 | 4068700.20 | 4.59 | 911.20 | -3.19 | 85831.00 |
| 541949.60 | 4068699.70 | 4.56 | 911.00 | -3.28 | 85833.00 |
| 541947.90 | 4068698.80 | 4.64 | 911.00 | -3.53 | 85835.00 |
| 541945.90 | 4068698.60 | 4.03 | 910.90 | -3.74 | 85837.00 |
| 541944.00 | 4068697.20 | 4.03 | 910.70 | -3.72 | 85839.00 |
| 541942.40 | 4068696.00 | 3.96 | 910.60 | -3.79 | 85841.00 |
| 541940.90 | 4068695.40 | 4.06 | 910.30 | -3.79 | 85843.00 |
| 541939.00 | 4068695.10 | 4.22 | 909.90 | -3.37 | 85845.00 |
| 541936.80 | 4068695.10 | 4.54 | 909.70 | -3.04 | 85847.00 |
| 541935.80 | 4068696.50 | 4.18 | 909.30 | -3.15 | 85849.00 |
| 541934.30 | 4068698.40 | 3.29 | 909.30 | -2.83 | 85851.00 |
| 541933.00 | 4068698.80 | 2.42 | 909.70 | -2.55 | 85853.00 |
| 541931.30 | 4068699.30 | 2.02 | 910.00 | -2.43 | 85855.00 |
| 541929.50 | 4068700.30 | 2.02 | 910.00 | -2.13 | 85857.00 |
| 541927.10 | 4068701.50 | 2.29 | 909.80 | -2.13 | 85859.00 |
| 541924.90 | 4068701.90 | 1.93 | 910.00 | -1.87 | 85861.00 |
| 541922.70 | 4068702.10 | 1.46 | 910.10 | -2.11 | 85863.00 |
| 541920.50 | 4068702.50 | 1.69 | 910.20 | -2.09 | 85865.00 |
| 541918.10 | 4068702.80 | 1.58 | 910.20 | -2.18 | 85867.00 |
| 541915.60 | 4068703.50 | 1.68 | 910.00 | -1.96 | 85869.00 |
| 541913.20 | 4068704.00 | 1.99 | 910.00 | -1.99 | 85871.00 |
| 541910.70 | 4068704.20 | 1.70 | 910.10 | -2.05 | 85873.00 |
| 541908.60 | 4068703.90 | 1.63 | 910.20 | -2.02 | 85875.00 |
| 541906.20 | 4068704.00 | 1.70 | 910.20 | -2.13 | 85877.00 |
| 541903.80 | 4068703.60 | 1.79 | 910.20 | -2.12 | 85879.00 |
| 541901.40 | 4068702.90 | 1.87 | 910.20 | -1.99 | 85881.00 |
| 541899.20 | 4068702.80 | 1.54 | 910.30 | -2.09 | 85883.00 |
| 541896.80 | 4068702.60 | 1.58 | 910.30 | -2.09 | 85885.00 |
| 541894.70 | 4068701.20 | 1.57 | 910.10 | -2.05 | 85887.00 |
| 541892.20 | 4068700.90 | 1.68 | 909.90 | -2.19 | 85889.00 |
| 541889.40 | 4068700.80 | 1.61 | 909.70 | -2.19 | 85891.00 |
| 541886.70 | 4068701.40 | 1.52 | 909.80 | -2.04 | 85893.00 |
| 541884.30 | 4068701.60 | 1.59 | 909.90 | -2.00 | 85895.00 |
| 541882.20 | 4068701.10 | 1.43 | 910.00 | -2.04 | 85897.00 |
| 541879.60 | 4068701.30 | 1.55 | 910.00 | -1.98 | 85899.00 |
| 541877.00 | 4068701.30 | 1.59 | 909.90 | -2.05 | 85901.00 |
| 541874.20 | 4068701.30 | 1.56 | 909.90 | -2.04 | 85903.00 |
| 541871.70 | 4068701.50 | 1.62 | 909.90 | -2.05 | 85905.00 |
| 541869.10 | 4068702.20 | 1.71 | 909.80 | -2.03 | 85907.00 |
| 541866.40 | 4068702.50 | 1.69 | 909.70 | -2.01 | 85909.00 |
| 541863.80 | 4068702.40 | 1.51 | 909.70 | -2.03 | 85911.00 |
| 541861.30 | 4068702.80 | 1.57 | 909.70 | -2.07 | 85913.00 |
| 541858.60 | 4068703.20 | 1.77 | 909.60 | -2.03 | 85915.00 |
| 541856.00 | 4068703.30 | 1.53 | 909.60 | -2.02 | 85917.00 |
| 541853.60 | 4068703.60 | 1.83 | 909.70 | -2.12 | 85919.00 |
| 541851.00 | 4068704.00 | 1.83 | 909.60 | -2.12 | 85921.00 |
| 541848.30 | 4068704.20 | 1.71 | 909.50 | -2.06 | 85923.00 |
| 541845.80 | 4068704.00 | 1.71 | 909.60 | -2.12 | 85925.00 |
| 541843.20 | 4068704.00 | 1.87 | 909.50 | -2.10 | 85927.00 |
| 541840.70 | 4068704.30 | 1.81 | 909.50 | -2.11 | 85929.00 |

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| 541838.20 | 4068704.50 | 1.87 | 909.40 | -2.07 | 85931.00 |
| 541835.80 | 4068704.90 | 1.91 | 909.40 | -2.02 | 85933.00 |
| 541833.20 | 4068705.00 | 2.33 | 909.30 | -2.07 | 85935.00 |
| 541830.60 | 4068704.90 | 2.24 | 909.20 | -2.14 | 85937.00 |
| 541828.10 | 4068705.30 | 2.19 | 909.20 | -2.05 | 85939.00 |
| 541825.50 | 4068705.10 | 2.08 | 909.30 | -2.23 | 85941.00 |
| 541823.30 | 4068704.40 | 2.29 | 909.30 | -2.06 | 85943.00 |
| 541820.80 | 4068704.30 | 2.30 | 909.00 | -2.01 | 85945.00 |
| 541818.10 | 4068704.00 | 2.20 | 908.90 | -2.00 | 85947.00 |
| 541815.50 | 4068703.90 | 2.15 | 909.00 | -2.19 | 85949.00 |
| 541813.10 | 4068703.70 | 2.15 | 909.00 | -2.18 | 85951.00 |
| 541810.60 | 4068703.80 | 2.20 | 908.90 | -2.05 | 85953.00 |
| 541808.00 | 4068703.60 | 2.16 | 908.80 | -2.09 | 85955.00 |
| 541805.70 | 4068703.20 | 2.41 | 908.60 | -2.22 | 85957.00 |
| 541803.60 | 4068702.70 | 2.96 | 908.50 | -1.89 | 85959.00 |
| 541801.40 | 4068703.00 | 2.99 | 908.10 | -1.77 | 85961.00 |
| 541799.60 | 4068703.60 | 2.59 | 908.60 | -1.88 | 85963.00 |
| 541797.60 | 4068703.50 | 2.44 | 908.80 | -1.91 | 85965.00 |
| 541795.60 | 4068703.30 | 2.14 | 908.90 | -2.01 | 85967.00 |
| 541793.50 | 4068703.10 | 2.09 | 908.80 | -2.21 | 85969.00 |
| 541791.50 | 4068703.10 | 2.70 | 908.40 | -2.09 | 85971.00 |
| 541789.00 | 4068702.60 | 2.65 | 908.20 | -2.06 | 85973.00 |
| 541786.80 | 4068702.00 | 2.44 | 908.20 | -2.10 | 85975.00 |
| 541784.40 | 4068701.00 | 2.18 | 908.30 | -2.10 | 85977.00 |
| 541782.00 | 4068700.60 | 1.97 | 908.40 | -2.22 | 85979.00 |
| 541779.90 | 4068700.00 | 1.87 | 908.40 | -2.25 | 85981.00 |
| 541777.70 | 4068699.80 | 2.18 | 908.40 | -2.02 | 85983.00 |
| 541775.10 | 4068699.60 | 1.98 | 908.40 | -2.04 | 85985.00 |
| 541772.80 | 4068699.40 | 1.88 | 908.40 | -2.08 | 85987.00 |
| 541770.40 | 4068699.00 | 1.74 | 908.50 | -2.04 | 85989.00 |
| 541768.30 | 4068698.50 | 1.68 | 908.50 | -1.97 | 85991.00 |
| 541766.00 | 4068698.90 | 1.72 | 908.60 | -2.01 | 85993.00 |
| 541763.70 | 4068698.60 | 1.73 | 908.60 | -2.04 | 85995.00 |
| 541761.10 | 4068698.80 | 1.97 | 908.50 | -1.98 | 85997.00 |
| 541758.60 | 4068698.80 | 1.94 | 908.40 | -2.10 | 85999.00 |
| 541756.30 | 4068698.90 | 2.05 | 908.50 | -2.07 | 86001.00 |
| 541754.20 | 4068698.80 | 1.96 | 908.50 | -1.96 | 86003.00 |
| 541751.90 | 4068699.10 | 1.64 | 908.40 | -1.91 | 86005.00 |
| 541749.60 | 4068699.10 | 1.71 | 908.40 | -2.03 | 86007.00 |
| 541747.10 | 4068699.10 | 1.72 | 908.30 | -1.94 | 86009.00 |
| 541744.70 | 4068698.90 | 1.72 | 908.20 | -1.95 | 86011.00 |
| 541742.20 | 4068698.80 | 1.59 | 908.20 | -2.04 | 86013.00 |
| 541740.00 | 4068698.40 | 1.69 | 908.30 | -2.04 | 86015.00 |
| 541737.70 | 4068698.10 | 1.96 | 908.20 | -1.96 | 86017.00 |
| 541735.30 | 4068698.50 | 1.74 | 908.30 | -1.96 | 86019.00 |
| 541733.00 | 4068697.70 | 2.10 | 908.30 | -1.94 | 86021.00 |
| 541730.60 | 4068697.70 | 2.31 | 908.20 | -2.05 | 86023.00 |
| 541728.40 | 4068697.10 | 2.41 | 908.30 | -1.44 | 86025.00 |
| 541726.40 | 4068696.10 | 2.00 | 908.40 | -1.98 | 86027.00 |
| 541723.90 | 4068696.60 | 2.52 | 908.30 | -2.25 | 86029.00 |
| 541721.40 | 4068697.10 | 3.01 | 908.30 | -1.56 | 86031.00 |
| 541718.90 | 4068697.80 | 2.80 | 908.40 | -2.03 | 86033.00 |
| 541716.30 | 4068698.10 | 2.74 | 908.40 | -1.93 | 86035.00 |
| 541713.80 | 4068698.00 | 2.80 | 908.40 | -1.86 | 86037.00 |
| 541711.40 | 4068698.40 | 3.05 | 908.40 | -2.48 | 86039.00 |
| 541708.90 | 4068698.20 | 3.24 | 908.20 | -1.92 | 86041.00 |
| 541706.50 | 4068699.30 | 3.01 | 908.00 | -1.91 | 86043.00 |

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| 541704.50 | 4068700.40 | 2.57 | 908.10 | -2.56 | 86045.00 |
| 541701.80 | 4068700.10 | 3.36 | 907.60 | -1.94 | 86047.00 |
| 541699.40 | 4068700.00 | 2.79 | 907.80 | -1.53 | 86049.00 |
| 541697.20 | 4068699.90 | 2.31 | 908.00 | -2.02 | 86051.00 |
| 541694.90 | 4068699.50 | 2.63 | 908.00 | -2.01 | 86053.00 |
| 541692.50 | 4068699.80 | 2.75 | 908.10 | -1.94 | 86055.00 |
| 541690.30 | 4068700.30 | 2.62 | 908.30 | -2.16 | 86057.00 |
| 541687.90 | 4068700.50 | 3.14 | 908.20 | -2.34 | 86059.00 |
| 541685.30 | 4068700.30 | 3.69 | 907.90 | -2.19 | 86061.00 |
| 541682.50 | 4068699.70 | 3.53 | 908.00 | -1.79 | 86063.00 |
| 541680.10 | 4068699.80 | 3.19 | 908.20 | -2.01 | 86065.00 |
| 541677.70 | 4068700.00 | 3.31 | 908.20 | -1.99 | 86067.00 |
| 541675.30 | 4068700.80 | 3.59 | 908.30 | -2.01 | 86069.00 |
| 541672.80 | 4068701.20 | 3.51 | 908.30 | -2.20 | 86071.00 |
| 541670.20 | 4068701.20 | 3.52 | 908.20 | -2.04 | 86073.00 |
| 541667.60 | 4068701.20 | 3.04 | 908.20 | -2.08 | 86075.00 |
| 541664.90 | 4068701.00 | 3.07 | 908.10 | -2.20 | 86077.00 |
| 541662.30 | 4068700.70 | 2.75 | 908.10 | -2.14 | 86079.00 |
| 541659.70 | 4068700.60 | 2.79 | 907.90 | -2.04 | 86081.00 |
| 541657.20 | 4068701.20 | 2.48 | 907.90 | -2.13 | 86083.00 |
| 541654.80 | 4068701.20 | 2.48 | 907.80 | -2.10 | 86085.00 |
| 541652.40 | 4068701.80 | 2.89 | 907.40 | -1.84 | 86087.00 |
| 541649.60 | 4068701.90 | 2.59 | 907.50 | -1.87 | 86089.00 |
| 541647.20 | 4068701.50 | 2.52 | 907.60 | -1.95 | 86091.00 |
| 541644.70 | 4068701.30 | 2.72 | 907.80 | -1.91 | 86093.00 |
| 541642.10 | 4068701.50 | 2.67 | 907.70 | -2.05 | 86095.00 |
| 541639.60 | 4068702.00 | 2.50 | 907.70 | -2.04 | 86097.00 |
| 541637.20 | 4068702.40 | 3.07 | 907.50 | -1.92 | 86099.00 |
| 541634.40 | 4068702.70 | 2.88 | 907.40 | -2.05 | 86101.00 |
| 541631.90 | 4068702.50 | 2.56 | 907.50 | -2.03 | 86103.00 |
| 541629.60 | 4068702.90 | 2.56 | 907.50 | -2.17 | 86105.00 |
| 541627.00 | 4068703.30 | 2.74 | 907.20 | -2.16 | 86107.00 |
| 541624.20 | 4068703.90 | 2.86 | 907.30 | -1.86 | 86109.00 |
| 541621.80 | 4068704.40 | 2.71 | 907.40 | -1.89 | 86111.00 |
| 541619.30 | 4068704.40 | 2.70 | 907.60 | -1.88 | 86113.00 |
| 541616.90 | 4068704.10 | 2.59 | 907.50 | -1.94 | 86115.00 |
| 541614.30 | 4068704.40 | 3.02 | 907.50 | -1.74 | 86117.00 |
| 541611.70 | 4068704.50 | 3.00 | 907.50 | -2.01 | 86119.00 |
| 541609.20 | 4068704.50 | 3.11 | 907.50 | -1.90 | 86121.00 |
| 541606.70 | 4068704.30 | 2.92 | 907.40 | -1.98 | 86123.00 |
| 541604.20 | 4068704.70 | 3.05 | 907.40 | -1.97 | 86125.00 |
| 541601.70 | 4068705.00 | 2.81 | 907.30 | -1.90 | 86127.00 |
| 541599.20 | 4068704.80 | 2.34 | 907.20 | -1.96 | 86129.00 |
| 541596.80 | 4068704.60 | 2.87 | 907.10 | -2.00 | 86131.00 |
| 541594.40 | 4068705.00 | 2.80 | 906.70 | -1.87 | 86133.00 |
| 541591.70 | 4068705.40 | 2.64 | 906.50 | -1.84 | 86135.00 |
| 541589.10 | 4068705.60 | 2.48 | 906.70 | -1.80 | 86137.00 |
| 541586.60 | 4068705.60 | 2.37 | 906.80 | -1.85 | 86139.00 |
| 541584.10 | 4068705.50 | 2.35 | 906.80 | -1.92 | 86141.00 |
| 541581.60 | 4068705.10 | 2.33 | 906.70 | -1.96 | 86143.00 |
| 541578.90 | 4068704.90 | 2.30 | 906.70 | -1.96 | 86145.00 |
| 541576.30 | 4068704.80 | 2.30 | 906.70 | -1.94 | 86147.00 |
| 541573.60 | 4068704.90 | 2.49 | 906.60 | -1.92 | 86149.00 |
| 541571.10 | 4068705.00 | 2.42 | 906.80 | -1.86 | 86151.00 |
| 541568.70 | 4068704.60 | 2.34 | 906.80 | -1.88 | 86153.00 |
| 541566.10 | 4068704.20 | 2.23 | 906.70 | -1.98 | 86155.00 |
| 541563.60 | 4068704.70 | 2.50 | 906.70 | -2.08 | 86157.00 |

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| 541561.00 | 4068705.00 | 2.59 | 906.50 | -2.00 | 86159.00 |
| 541558.40 | 4068704.80 | 3.02 | 906.40 | -2.07 | 86161.00 |
| 541555.90 | 4068704.60 | 2.62 | 906.30 | -2.10 | 86163.00 |
| 541553.30 | 4068704.60 | 3.01 | 906.20 | -2.22 | 86165.00 |
| 541550.70 | 4068704.40 | 2.97 | 906.10 | -1.70 | 86167.00 |
| 541548.30 | 4068704.10 | 2.64 | 906.40 | -1.76 | 86169.00 |
| 541546.10 | 4068703.90 | 2.81 | 906.40 | -2.00 | 86171.00 |
| 541543.60 | 4068703.60 | 2.77 | 906.40 | -1.99 | 86173.00 |
| 541541.10 | 4068703.30 | 3.48 | 906.10 | -1.88 | 86175.00 |
| 541538.40 | 4068703.20 | 3.48 | 906.10 | -1.81 | 86177.00 |
| 541536.00 | 4068703.00 | 3.32 | 906.20 | -1.89 | 86179.00 |
| 541533.70 | 4068703.10 | 2.76 | 906.20 | -1.87 | 86181.00 |
| 541531.30 | 4068703.20 | 3.84 | 906.30 | -1.72 | 86183.00 |
| 541528.60 | 4068703.00 | 3.69 | 906.30 | -2.00 | 86185.00 |
| 541525.90 | 4068702.70 | 3.65 | 906.20 | -1.89 | 86187.00 |
| 541523.30 | 4068702.70 | 3.72 | 906.20 | -1.92 | 86189.00 |
| 541520.80 | 4068702.80 | 3.64 | 906.20 | -1.92 | 86191.00 |
| 541518.20 | 4068703.10 | 3.45 | 906.20 | -1.89 | 86193.00 |
| 541515.60 | 4068703.20 | 3.77 | 906.20 | -2.01 | 86195.00 |
| 541513.20 | 4068702.40 | 3.60 | 906.10 | -1.99 | 86197.00 |
| 541510.70 | 4068701.90 | 3.76 | 906.00 | -1.86 | 86199.00 |
| 541508.20 | 4068701.30 | 3.36 | 906.00 | -1.99 | 86201.00 |
| 541506.00 | 4068701.00 | 3.55 | 906.00 | -1.93 | 86203.00 |
| 541504.00 | 4068700.90 | 4.02 | 905.80 | -1.95 | 86205.00 |
| 541502.20 | 4068700.50 | 3.69 | 905.90 | -2.05 | 86207.00 |
| 541500.60 | 4068700.50 | 3.65 | 905.80 | -2.04 | 86209.00 |
| 541498.70 | 4068700.80 | 3.34 | 905.80 | -2.00 | 86221.00 |
| 541498.80 | 4068701.10 | 3.51 | 905.80 | -1.99 | 86222.00 |
| 541499.70 | 4068702.70 | 3.96 | 905.90 | -1.92 | 86224.00 |
| 541499.80 | 4068704.70 | 3.71 | 905.90 | -2.01 | 86226.00 |
| 541499.50 | 4068707.00 | 3.61 | 906.10 | -2.07 | 86228.00 |
| 541499.00 | 4068709.40 | 3.68 | 906.00 | -2.08 | 86230.00 |
| 541498.50 | 4068711.80 | 3.96 | 906.00 | -2.06 | 86232.00 |
| 541498.10 | 4068714.20 | 3.81 | 906.10 | -2.07 | 86234.00 |
| 541497.90 | 4068716.60 | 3.60 | 906.20 | -2.04 | 86236.00 |
| 541497.60 | 4068719.20 | 3.78 | 906.20 | -2.06 | 86238.00 |
| 541496.90 | 4068721.40 | 3.67 | 906.30 | -2.00 | 86240.00 |
| 541495.80 | 4068723.80 | 3.74 | 906.40 | -2.02 | 86242.00 |
| 541495.00 | 4068726.30 | 3.77 | 906.30 | -1.98 | 86244.00 |
| 541494.50 | 4068728.90 | 3.70 | 906.30 | -1.99 | 86246.00 |
| 541494.20 | 4068731.40 | 3.31 | 906.30 | -1.98 | 86248.00 |
| 541493.50 | 4068733.90 | 3.55 | 906.30 | -2.04 | 86250.00 |
| 541492.70 | 4068736.40 | 2.99 | 906.20 | -2.04 | 86252.00 |
| 541492.90 | 4068738.90 | 3.09 | 906.30 | -1.97 | 86254.00 |
| 541493.00 | 4068741.40 | 2.99 | 906.20 | -1.92 | 86256.00 |
| 541493.70 | 4068743.70 | 3.33 | 906.30 | -1.67 | 86258.00 |
| 541493.00 | 4068745.90 | 3.02 | 906.30 | -1.90 | 86260.00 |
| 541492.20 | 4068747.90 | 2.98 | 906.40 | -1.88 | 86262.00 |
| 541491.80 | 4068750.00 | 3.26 | 906.30 | -1.90 | 86264.00 |
| 541492.50 | 4068752.40 | 2.68 | 906.50 | -1.99 | 86280.00 |
| 541492.80 | 4068752.60 | 2.78 | 906.50 | -2.03 | 86281.00 |
| 541494.60 | 4068752.70 | 3.09 | 906.50 | -1.99 | 86283.00 |
| 541496.60 | 4068753.30 | 3.03 | 906.50 | -1.94 | 86285.00 |
| 541498.70 | 4068754.00 | 2.97 | 906.50 | -1.92 | 86287.00 |
| 541500.80 | 4068754.50 | 3.03 | 906.60 | -1.93 | 86289.00 |
| 541503.20 | 4068754.50 | 2.83 | 906.60 | -1.87 | 86291.00 |
| 541505.50 | 4068754.50 | 3.10 | 906.80 | -1.96 | 86293.00 |

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|-----------|------------|------|--------|-------|----------|
| 541507.90 | 4068754.30 | 3.70 | 906.70 | -1.91 | 86295.00 |
| 541510.70 | 4068754.30 | 3.61 | 906.60 | -1.67 | 86297.00 |
| 541513.30 | 4068754.20 | 2.97 | 906.80 | -1.83 | 86299.00 |
| 541515.70 | 4068754.40 | 3.41 | 907.00 | -1.82 | 86301.00 |
| 541518.30 | 4068754.60 | 3.60 | 907.10 | -1.88 | 86303.00 |
| 541520.80 | 4068754.90 | 3.46 | 907.20 | -1.94 | 86305.00 |
| 541523.40 | 4068755.00 | 3.78 | 907.30 | -1.96 | 86307.00 |
| 541525.90 | 4068755.40 | 3.45 | 907.40 | -1.94 | 86309.00 |
| 541528.40 | 4068755.90 | 3.29 | 907.50 | -2.00 | 86311.00 |
| 541530.90 | 4068756.40 | 3.21 | 907.60 | -2.09 | 86313.00 |
| 541533.40 | 4068756.80 | 3.64 | 907.60 | -1.86 | 86315.00 |
| 541535.90 | 4068756.50 | 3.33 | 907.60 | -2.02 | 86317.00 |
| 541538.30 | 4068756.40 | 3.49 | 907.70 | -1.91 | 86319.00 |
| 541540.90 | 4068756.10 | 3.52 | 907.70 | -1.93 | 86321.00 |
| 541543.50 | 4068755.50 | 3.38 | 907.80 | -1.96 | 86323.00 |
| 541546.10 | 4068755.50 | 3.44 | 907.80 | -1.88 | 86325.00 |
| 541548.60 | 4068755.30 | 3.20 | 907.90 | -1.99 | 86327.00 |
| 541551.10 | 4068755.40 | 3.51 | 907.90 | -1.91 | 86329.00 |
| 541553.70 | 4068755.40 | 3.46 | 907.90 | -1.98 | 86331.00 |
| 541556.40 | 4068755.30 | 3.52 | 907.90 | -1.98 | 86333.00 |
| 541559.00 | 4068754.90 | 3.34 | 907.90 | -1.99 | 86335.00 |
| 541561.40 | 4068753.80 | 2.96 | 907.80 | -2.08 | 86337.00 |
| 541563.90 | 4068752.60 | 3.42 | 907.80 | -1.92 | 86339.00 |
| 541566.50 | 4068752.10 | 3.16 | 907.80 | -1.90 | 86341.00 |
| 541569.10 | 4068751.60 | 2.79 | 907.70 | -2.04 | 86343.00 |
| 541571.50 | 4068752.20 | 3.02 | 907.70 | -1.88 | 86345.00 |
| 541574.20 | 4068752.30 | 2.69 | 907.60 | -1.86 | 86347.00 |
| 541576.50 | 4068752.50 | 2.59 | 907.90 | -1.89 | 86349.00 |
| 541578.80 | 4068752.50 | 2.60 | 907.90 | -1.97 | 86351.00 |
| 541581.20 | 4068752.10 | 2.61 | 908.00 | -1.96 | 86353.00 |
| 541583.90 | 4068752.00 | 2.38 | 908.00 | -2.01 | 86355.00 |
| 541586.40 | 4068752.00 | 2.42 | 908.00 | -1.91 | 86357.00 |
| 541588.90 | 4068752.10 | 2.44 | 908.10 | -1.92 | 86359.00 |
| 541591.30 | 4068751.80 | 2.69 | 908.00 | -2.00 | 86361.00 |
| 541593.90 | 4068751.70 | 2.65 | 908.00 | -1.94 | 86363.00 |
| 541596.60 | 4068752.60 | 2.48 | 907.90 | -1.84 | 86365.00 |
| 541598.80 | 4068753.00 | 2.90 | 908.10 | -1.74 | 86367.00 |
| 541601.10 | 4068753.30 | 2.75 | 908.20 | -1.88 | 86369.00 |
| 541603.40 | 4068753.60 | 2.49 | 908.20 | -2.02 | 86371.00 |
| 541605.60 | 4068754.20 | 2.72 | 908.00 | -2.00 | 86373.00 |
| 541608.20 | 4068754.00 | 2.50 | 907.90 | -1.76 | 86375.00 |
| 541610.70 | 4068753.40 | 2.56 | 908.10 | -1.84 | 86377.00 |
| 541613.00 | 4068753.90 | 2.52 | 908.10 | -1.76 | 86379.00 |
| 541615.90 | 4068753.90 | 2.19 | 908.20 | -1.76 | 86381.00 |
| 541618.40 | 4068754.00 | 2.42 | 908.40 | -1.95 | 86383.00 |
| 541620.90 | 4068754.20 | 2.62 | 908.30 | -1.93 | 86385.00 |
| 541623.60 | 4068754.20 | 2.70 | 908.10 | -1.64 | 86387.00 |
| 541626.00 | 4068754.70 | 2.27 | 908.50 | -1.72 | 86389.00 |
| 541628.50 | 4068754.70 | 2.60 | 908.60 | -1.75 | 86391.00 |
| 541631.00 | 4068754.50 | 2.65 | 908.60 | -1.71 | 86393.00 |
| 541633.60 | 4068754.60 | 2.30 | 908.70 | -1.79 | 86395.00 |
| 541636.10 | 4068754.40 | 2.33 | 908.80 | -1.91 | 86397.00 |
| 541638.40 | 4068753.50 | 2.57 | 908.60 | -1.71 | 86399.00 |
| 541654.60 | 4068752.80 | 2.39 | 908.90 | -1.84 | 12.00 |
| 541658.10 | 4068751.50 | 2.33 | 909.00 | -1.98 | 15.00 |
| 541660.60 | 4068750.90 | 2.84 | 908.80 | -1.72 | 17.00 |
| 541663.00 | 4068750.80 | 2.64 | 909.00 | -1.95 | 19.00 |

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| 541664.20 | 4068750.70 | 2.60 | 909.00 | -1.89 | 20.00 |
| 541667.90 | 4068750.40 | 3.06 | 908.90 | -1.80 | 23.00 |
| 541670.20 | 4068749.00 | 3.00 | 908.90 | -1.85 | 25.00 |
| 541672.40 | 4068748.40 | 3.17 | 909.20 | -1.77 | 27.00 |
| 541674.90 | 4068747.70 | 3.32 | 909.20 | -1.93 | 29.00 |
| 541677.20 | 4068747.70 | 3.24 | 909.40 | -1.84 | 31.00 |
| 541679.80 | 4068747.40 | 3.31 | 909.40 | -1.84 | 33.00 |
| 541682.30 | 4068747.40 | 3.56 | 909.40 | -1.87 | 35.00 |
| 541684.90 | 4068747.40 | 3.53 | 909.40 | -1.89 | 37.00 |
| 541687.40 | 4068747.30 | 3.92 | 909.50 | -1.93 | 39.00 |
| 541689.90 | 4068747.50 | 3.76 | 909.50 | -1.91 | 41.00 |
| 541692.40 | 4068748.00 | 3.88 | 909.50 | -1.95 | 43.00 |
| 541694.90 | 4068747.80 | 3.51 | 909.50 | -1.91 | 45.00 |
| 541697.40 | 4068748.20 | 2.92 | 909.40 | -2.03 | 47.00 |
| 541699.80 | 4068748.20 | 3.49 | 909.20 | -1.86 | 49.00 |
| 541702.40 | 4068748.50 | 3.34 | 909.10 | -2.00 | 51.00 |
| 541704.40 | 4068748.90 | 3.01 | 909.20 | -1.86 | 53.00 |
| 541706.90 | 4068749.40 | 3.04 | 909.30 | -1.96 | 55.00 |
| 541709.20 | 4068749.60 | 3.80 | 909.00 | -1.71 | 57.00 |
| 541711.60 | 4068749.30 | 3.13 | 909.20 | -1.81 | 59.00 |
| 541713.80 | 4068749.40 | 3.09 | 909.40 | -1.90 | 61.00 |
| 541716.20 | 4068749.60 | 3.96 | 909.30 | -1.87 | 63.00 |
| 541718.90 | 4068750.10 | 3.58 | 909.20 | -1.99 | 65.00 |
| 541721.10 | 4068750.30 | 2.96 | 909.30 | -1.93 | 67.00 |
| 541723.40 | 4068750.10 | 2.54 | 909.50 | -1.96 | 69.00 |
| 541726.00 | 4068750.20 | 2.44 | 909.60 | -1.90 | 71.00 |
| 541728.40 | 4068750.50 | 2.28 | 909.60 | -1.93 | 73.00 |
| 541730.80 | 4068750.70 | 2.26 | 909.60 | -2.02 | 75.00 |
| 541732.90 | 4068751.80 | 2.18 | 909.60 | -1.98 | 77.00 |
| 541734.80 | 4068753.00 | 1.88 | 909.70 | -2.12 | 79.00 |
| 541737.10 | 4068753.80 | 1.80 | 909.80 | -2.04 | 81.00 |
| 541739.40 | 4068754.70 | 1.81 | 909.80 | -2.06 | 83.00 |
| 541741.80 | 4068754.60 | 1.80 | 909.70 | -1.90 | 85.00 |
| 541744.30 | 4068754.80 | 1.62 | 909.90 | -1.95 | 87.00 |
| 541746.80 | 4068755.40 | 1.80 | 909.80 | -1.84 | 89.00 |
| 541749.30 | 4068755.80 | 1.72 | 909.90 | -1.93 | 91.00 |
| 541751.70 | 4068756.10 | 1.78 | 909.80 | -2.01 | 93.00 |
| 541754.30 | 4068756.30 | 2.18 | 909.80 | -1.95 | 95.00 |
| 541756.50 | 4068757.80 | 2.06 | 909.50 | -1.96 | 97.00 |
| 541758.60 | 4068758.70 | 2.02 | 909.70 | -1.90 | 99.00 |
| 541760.80 | 4068759.10 | 2.09 | 909.70 | -2.00 | 101.00 |
| 541763.30 | 4068758.80 | 2.07 | 909.60 | -1.78 | 103.00 |
| 541765.80 | 4068758.20 | 2.00 | 909.80 | -2.20 | 105.00 |
| 541768.10 | 4068757.20 | 2.27 | 909.80 | -1.81 | 107.00 |
| 541770.60 | 4068756.40 | 2.03 | 909.80 | -1.73 | 109.00 |
| 541773.10 | 4068756.30 | 2.08 | 909.90 | -1.89 | 111.00 |
| 541775.70 | 4068756.20 | 1.97 | 909.90 | -1.89 | 113.00 |
| 541778.20 | 4068755.90 | 1.85 | 909.90 | -1.94 | 115.00 |
| 541780.60 | 4068755.60 | 2.00 | 909.60 | -1.90 | 117.00 |
| 541783.20 | 4068756.10 | 2.70 | 909.40 | -1.81 | 119.00 |
| 541785.70 | 4068756.30 | 2.28 | 909.50 | -1.78 | 121.00 |
| 541788.00 | 4068755.80 | 2.61 | 909.60 | -1.88 | 123.00 |
| 541790.50 | 4068755.30 | 2.87 | 909.50 | -1.74 | 125.00 |
| 541793.00 | 4068754.70 | 2.09 | 909.80 | -1.93 | 127.00 |
| 541795.10 | 4068754.20 | 2.64 | 909.70 | -1.91 | 129.00 |
| 541797.50 | 4068753.70 | 3.29 | 909.70 | -1.94 | 131.00 |
| 541799.90 | 4068754.20 | 3.19 | 909.60 | -1.79 | 133.00 |

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| 541802.60 | 4068753.70 | 2.84 | 909.40 | -1.68 | 135.00 |
| 541804.80 | 4068752.90 | 2.45 | 909.60 | -1.72 | 137.00 |
| 541806.90 | 4068752.10 | 2.31 | 909.90 | -1.84 | 139.00 |
| 541809.30 | 4068751.50 | 2.39 | 909.90 | -1.87 | 141.00 |
| 541811.60 | 4068750.90 | 2.40 | 909.90 | -1.81 | 143.00 |
| 541813.90 | 4068751.40 | 2.27 | 910.00 | -1.75 | 145.00 |
| 541816.30 | 4068751.70 | 2.24 | 910.00 | -1.79 | 147.00 |
| 541818.60 | 4068751.50 | 2.31 | 910.20 | -1.78 | 149.00 |
| 541820.90 | 4068750.70 | 2.46 | 910.20 | -1.69 | 151.00 |
| 541823.30 | 4068751.10 | 2.24 | 910.30 | -1.79 | 153.00 |
| 541825.90 | 4068751.00 | 2.26 | 910.20 | -1.92 | 155.00 |
| 541828.40 | 4068751.10 | 2.22 | 910.30 | -1.82 | 157.00 |
| 541830.80 | 4068751.50 | 2.10 | 910.40 | -1.89 | 159.00 |
| 541833.30 | 4068751.40 | 2.44 | 909.90 | -2.13 | 161.00 |
| 541835.50 | 4068751.00 | 2.42 | 910.10 | -1.84 | 163.00 |
| 541838.10 | 4068750.40 | 2.21 | 910.00 | -1.76 | 165.00 |
| 541840.30 | 4068750.90 | 2.09 | 910.10 | -1.88 | 167.00 |
| 541842.70 | 4068751.10 | 1.92 | 910.10 | -1.70 | 169.00 |
| 541845.00 | 4068751.00 | 2.17 | 910.20 | -1.87 | 171.00 |
| 541847.50 | 4068751.40 | 2.09 | 910.30 | -1.72 | 173.00 |
| 541850.00 | 4068750.90 | 1.87 | 910.50 | -1.78 | 175.00 |
| 541852.10 | 4068751.20 | 2.04 | 910.70 | -1.78 | 177.00 |
| 541854.40 | 4068751.30 | 2.18 | 910.70 | -1.80 | 179.00 |
| 541856.90 | 4068751.30 | 2.02 | 910.80 | -1.85 | 181.00 |
| 541859.30 | 4068751.50 | 2.06 | 910.80 | -1.75 | 183.00 |
| 541861.80 | 4068751.40 | 2.02 | 910.80 | -1.82 | 185.00 |
| 541864.00 | 4068751.60 | 2.04 | 911.00 | -1.91 | 187.00 |
| 541866.40 | 4068751.50 | 1.90 | 911.00 | -1.90 | 189.00 |
| 541868.80 | 4068751.30 | 1.89 | 911.10 | -1.89 | 191.00 |
| 541871.10 | 4068751.30 | 1.90 | 911.20 | -1.95 | 193.00 |
| 541873.50 | 4068751.00 | 1.86 | 911.30 | -1.90 | 195.00 |
| 541876.10 | 4068750.80 | 1.85 | 911.20 | -1.89 | 197.00 |
| 541878.60 | 4068750.70 | 2.13 | 911.20 | -1.81 | 199.00 |
| 541881.10 | 4068750.60 | 1.50 | 911.30 | -1.87 | 201.00 |
| 541883.40 | 4068750.70 | 1.54 | 911.50 | -1.83 | 203.00 |
| 541886.00 | 4068750.80 | 1.89 | 911.40 | -1.75 | 205.00 |
| 541888.40 | 4068751.40 | 1.67 | 911.60 | -1.85 | 207.00 |
| 541890.80 | 4068751.60 | 1.95 | 911.50 | -1.86 | 209.00 |
| 541893.10 | 4068752.40 | 1.84 | 911.50 | -1.98 | 211.00 |
| 541895.80 | 4068752.40 | 1.91 | 911.50 | -1.89 | 213.00 |
| 541898.30 | 4068752.70 | 1.81 | 911.40 | -1.90 | 215.00 |
| 541900.80 | 4068753.10 | 2.12 | 911.20 | -1.95 | 217.00 |
| 541903.40 | 4068753.80 | 1.90 | 911.20 | -1.98 | 219.00 |
| 541905.90 | 4068754.10 | 1.73 | 911.30 | -1.99 | 221.00 |
| 541908.40 | 4068753.80 | 1.78 | 911.40 | -1.85 | 223.00 |
| 541911.00 | 4068753.70 | 1.79 | 911.40 | -1.97 | 225.00 |
| 541913.40 | 4068753.40 | 1.99 | 911.40 | -1.82 | 227.00 |
| 541915.90 | 4068753.10 | 1.76 | 911.60 | -1.94 | 229.00 |
| 541918.30 | 4068753.10 | 1.83 | 911.70 | -2.01 | 231.00 |
| 541920.80 | 4068753.20 | 1.83 | 911.60 | -1.95 | 233.00 |
| 541923.50 | 4068753.50 | 1.90 | 911.50 | -1.94 | 235.00 |
| 541926.10 | 4068753.80 | 2.05 | 911.60 | -1.87 | 237.00 |
| 541928.40 | 4068754.40 | 1.92 | 911.80 | -1.99 | 239.00 |
| 541930.60 | 4068755.00 | 1.75 | 911.90 | -1.91 | 241.00 |
| 541933.10 | 4068755.20 | 1.89 | 911.90 | -1.87 | 243.00 |
| 541935.50 | 4068754.90 | 1.74 | 912.00 | -1.83 | 245.00 |
| 541937.90 | 4068754.70 | 1.68 | 912.00 | -1.94 | 247.00 |

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| 541940.20 | 4068754.10 | 2.01 | 911.60 | -1.75 | 249.00 |
| 541942.90 | 4068753.80 | 1.95 | 911.50 | -1.80 | 251.00 |
| 541945.30 | 4068752.40 | 1.90 | 911.40 | -1.69 | 253.00 |
| 541947.60 | 4068751.90 | 2.03 | 911.60 | -1.89 | 255.00 |
| 541949.90 | 4068751.30 | 2.29 | 911.60 | -1.89 | 257.00 |
| 541952.10 | 4068750.10 | 2.88 | 911.60 | -2.01 | 259.00 |
| 541954.10 | 4068748.70 | 3.47 | 911.60 | -1.88 | 261.00 |
| 541956.10 | 4068747.30 | 4.42 | 911.50 | -2.20 | 263.00 |
| 541958.20 | 4068746.50 | 4.18 | 911.40 | -1.94 | 265.00 |
| 541960.00 | 4068745.50 | 3.49 | 911.80 | -2.17 | 267.00 |
| 541961.70 | 4068745.60 | 4.62 | 912.00 | -2.32 | 269.00 |
| 541963.60 | 4068746.00 | 5.96 | 911.80 | -2.52 | 271.00 |
| 541965.60 | 4068746.70 | 7.10 | 911.60 | -2.40 | 273.00 |
| 541967.70 | 4068746.70 | 7.84 | 911.10 | -2.26 | 275.00 |
| 541970.00 | 4068746.20 | 8.08 | 911.00 | -2.28 | 277.00 |
| 541971.10 | 4068745.10 | 7.32 | 911.00 | -2.31 | 279.00 |
| 541972.00 | 4068744.00 | 7.05 | 911.30 | -1.87 | 281.00 |
| 541973.10 | 4068743.50 | 6.67 | 911.70 | -2.02 | 283.00 |
| 541975.00 | 4068743.70 | 6.81 | 912.00 | -2.08 | 285.00 |
| 541977.10 | 4068744.20 | 7.06 | 912.10 | -2.19 | 287.00 |
| 541979.40 | 4068744.30 | 5.58 | 912.30 | -2.10 | 289.00 |
| 541981.80 | 4068743.80 | 6.17 | 912.50 | -2.03 | 291.00 |
| 541984.20 | 4068743.40 | 6.73 | 912.60 | -2.17 | 293.00 |
| 541986.60 | 4068743.00 | 7.24 | 912.70 | -2.03 | 295.00 |
| 541989.10 | 4068742.70 | 6.62 | 912.80 | -2.11 | 297.00 |
| 541991.60 | 4068742.90 | 6.85 | 912.90 | -2.02 | 299.00 |
| 541994.00 | 4068743.10 | 6.50 | 913.10 | -2.05 | 301.00 |
| 541996.30 | 4068743.70 | 6.37 | 913.10 | -2.00 | 303.00 |
| 541998.70 | 4068744.90 | 7.12 | 913.10 | -1.93 | 305.00 |
| 542001.10 | 4068745.50 | 6.51 | 913.20 | -1.96 | 307.00 |
| 542003.40 | 4068745.60 | 6.56 | 913.40 | -2.04 | 309.00 |
| 542005.80 | 4068745.10 | 6.50 | 913.40 | -1.88 | 311.00 |
| 542008.60 | 4068745.20 | 6.84 | 913.40 | -2.06 | 313.00 |
| 542011.10 | 4068746.00 | 6.28 | 913.40 | -2.06 | 315.00 |
| 542013.80 | 4068746.20 | 6.12 | 913.50 | -2.07 | 317.00 |
| 542016.40 | 4068746.80 | 6.37 | 913.50 | -2.07 | 319.00 |
| 542019.10 | 4068747.50 | 7.07 | 913.60 | -2.06 | 321.00 |
| 542021.60 | 4068748.20 | 6.51 | 913.70 | -2.09 | 323.00 |
| 542024.20 | 4068748.70 | 6.24 | 913.70 | -2.02 | 325.00 |
| 542026.80 | 4068749.00 | 6.83 | 913.80 | -2.07 | 327.00 |
| 542029.30 | 4068749.20 | 6.45 | 913.90 | -2.09 | 329.00 |
| 542031.90 | 4068749.50 | 6.79 | 913.90 | -2.03 | 331.00 |
| 542034.40 | 4068750.30 | 6.97 | 914.00 | -2.04 | 333.00 |
| 542036.90 | 4068750.60 | 7.23 | 914.00 | -2.03 | 335.00 |
| 542039.50 | 4068750.80 | 7.23 | 914.00 | -2.00 | 337.00 |
| 542042.10 | 4068751.30 | 7.58 | 914.00 | -2.09 | 339.00 |
| 542044.80 | 4068751.70 | 7.49 | 914.10 | -1.98 | 341.00 |
| 542047.60 | 4068752.00 | 7.36 | 914.20 | -2.01 | 343.00 |
| 542050.20 | 4068752.80 | 7.10 | 914.20 | -1.99 | 345.00 |
| 542052.70 | 4068753.60 | 7.00 | 914.30 | -2.04 | 347.00 |
| 542055.20 | 4068754.00 | 6.98 | 914.40 | -2.13 | 349.00 |
| 542057.80 | 4068754.40 | 6.23 | 914.40 | -2.06 | 351.00 |
| 542060.40 | 4068755.00 | 7.06 | 914.50 | -2.09 | 353.00 |
| 542062.90 | 4068755.80 | 6.37 | 914.50 | -2.09 | 355.00 |
| 542065.20 | 4068756.40 | 5.99 | 914.60 | -2.10 | 357.00 |
| 542067.70 | 4068757.00 | 6.90 | 914.60 | -2.07 | 359.00 |
| 542070.30 | 4068757.40 | 6.93 | 914.60 | -2.22 | 361.00 |

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| 542073.10 | 4068757.10 | 7.48 | 914.60 | -2.36 | 363.00 |
| 542075.50 | 4068756.60 | 6.23 | 914.50 | -2.32 | 365.00 |
| 542077.90 | 4068755.90 | 5.31 | 914.70 | -2.31 | 367.00 |
| 542080.30 | 4068755.20 | 7.08 | 914.70 | -2.40 | 369.00 |
| 542082.60 | 4068754.60 | 6.45 | 914.90 | -2.52 | 371.00 |
| 542085.20 | 4068754.50 | 6.15 | 914.90 | -2.38 | 373.00 |
| 542087.60 | 4068755.00 | 5.95 | 915.00 | -2.44 | 375.00 |
| 542090.00 | 4068755.40 | 5.39 | 915.00 | -2.42 | 377.00 |
| 542092.50 | 4068755.10 | 5.54 | 915.10 | -2.48 | 379.00 |
| 542095.00 | 4068755.10 | 4.99 | 915.10 | -2.47 | 381.00 |
| 542097.20 | 4068755.20 | 4.97 | 915.20 | -2.40 | 383.00 |
| 542099.10 | 4068755.40 | 4.86 | 915.30 | -2.52 | 385.00 |
| 542100.60 | 4068754.50 | 4.52 | 915.30 | -2.39 | 401.00 |
| 542100.70 | 4068754.80 | 4.41 | 915.30 | -2.41 | 402.00 |
| 542100.90 | 4068756.70 | 5.15 | 915.30 | -2.53 | 404.00 |
| 542101.50 | 4068758.90 | 5.50 | 915.30 | -2.59 | 406.00 |
| 542102.10 | 4068761.20 | 5.68 | 915.40 | -2.40 | 408.00 |
| 542102.60 | 4068763.60 | 6.31 | 915.50 | -2.46 | 410.00 |
| 542103.20 | 4068766.00 | 5.79 | 915.50 | -2.57 | 412.00 |
| 542103.60 | 4068768.30 | 5.66 | 915.60 | -2.36 | 414.00 |
| 542103.90 | 4068770.70 | 6.39 | 915.60 | -2.46 | 416.00 |
| 542104.30 | 4068772.90 | 5.46 | 915.70 | -2.33 | 418.00 |
| 542105.30 | 4068775.30 | 6.24 | 915.80 | -2.22 | 420.00 |
| 542105.90 | 4068777.80 | 6.98 | 915.80 | -2.18 | 422.00 |
| 542106.30 | 4068780.40 | 5.78 | 915.90 | -2.19 | 424.00 |
| 542107.10 | 4068782.80 | 6.45 | 916.00 | -2.16 | 426.00 |
| 542107.60 | 4068785.30 | 6.29 | 916.00 | -2.24 | 428.00 |
| 542108.20 | 4068787.70 | 6.32 | 916.10 | -2.11 | 430.00 |
| 542108.60 | 4068790.00 | 6.22 | 916.20 | -2.18 | 432.00 |
| 542109.00 | 4068792.40 | 6.18 | 916.20 | -2.26 | 434.00 |
| 542109.60 | 4068794.60 | 6.05 | 916.30 | -2.10 | 436.00 |
| 542110.50 | 4068796.50 | 6.87 | 916.30 | -1.89 | 438.00 |
| 542111.40 | 4068798.30 | 6.76 | 916.40 | -2.00 | 440.00 |
| 542111.80 | 4068800.30 | 6.33 | 916.40 | -2.04 | 468.00 |
| 542111.70 | 4068800.30 | 6.47 | 916.50 | -2.05 | 469.00 |
| 542111.30 | 4068800.50 | 6.36 | 916.40 | -2.20 | 471.00 |
| 542109.20 | 4068800.80 | 5.91 | 916.30 | -2.30 | 473.00 |
| 542106.90 | 4068801.50 | 5.61 | 916.30 | -2.19 | 475.00 |
| 542104.50 | 4068802.20 | 7.23 | 916.30 | -2.22 | 477.00 |
| 542102.00 | 4068802.70 | 6.84 | 916.20 | -2.16 | 479.00 |
| 542099.60 | 4068803.70 | 6.86 | 916.20 | -2.18 | 481.00 |
| 542097.20 | 4068804.50 | 6.80 | 916.10 | -2.16 | 483.00 |
| 542094.90 | 4068805.50 | 7.81 | 916.10 | -2.13 | 485.00 |
| 542092.70 | 4068806.70 | 8.25 | 916.10 | -2.27 | 487.00 |
| 542090.10 | 4068807.00 | 8.06 | 916.10 | -2.29 | 489.00 |
| 542087.70 | 4068807.20 | 7.35 | 915.90 | -2.20 | 491.00 |
| 542085.00 | 4068807.10 | 7.04 | 915.80 | -2.20 | 493.00 |
| 542082.50 | 4068807.30 | 7.45 | 915.80 | -2.20 | 495.00 |
| 542079.90 | 4068807.20 | 7.45 | 915.70 | -2.16 | 497.00 |
| 542077.40 | 4068807.50 | 8.03 | 915.60 | -2.16 | 499.00 |
| 542074.80 | 4068807.00 | 8.04 | 915.60 | -2.24 | 501.00 |
| 542072.30 | 4068807.30 | 7.33 | 915.40 | -2.12 | 503.00 |
| 542069.80 | 4068807.60 | 7.79 | 915.40 | -2.23 | 505.00 |
| 542067.40 | 4068807.30 | 8.77 | 915.30 | -2.23 | 507.00 |
| 542064.90 | 4068806.90 | 8.03 | 915.20 | -2.19 | 509.00 |
| 542062.30 | 4068806.50 | 9.74 | 915.10 | -2.27 | 511.00 |
| 542059.80 | 4068806.30 | 8.57 | 915.00 | -2.14 | 513.00 |

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| 542057.30 | 4068806.00 | 8.57 | 915.00 | -2.13 | 515.00 |
| 542054.90 | 4068805.50 | 8.70 | 915.00 | -2.25 | 517.00 |
| 542052.60 | 4068805.00 | 9.21 | 914.90 | -2.19 | 519.00 |
| 542050.60 | 4068804.30 | 8.82 | 914.70 | -2.27 | 521.00 |
| 542048.60 | 4068803.00 | 8.66 | 914.70 | -2.12 | 523.00 |
| 542047.20 | 4068801.30 | 8.71 | 914.70 | -2.29 | 525.00 |
| 542045.30 | 4068801.50 | 9.30 | 914.50 | -2.55 | 527.00 |
| 542042.80 | 4068801.80 | 8.62 | 914.20 | -1.86 | 529.00 |
| 542040.10 | 4068801.40 | 7.81 | 914.40 | -1.96 | 531.00 |
| 542038.00 | 4068800.30 | 7.38 | 914.40 | -2.21 | 533.00 |
| 542035.50 | 4068799.70 | 7.48 | 914.40 | -2.16 | 535.00 |
| 542033.00 | 4068798.90 | 7.51 | 914.30 | -2.23 | 537.00 |
| 542030.50 | 4068798.10 | 7.75 | 914.30 | -2.25 | 539.00 |
| 542027.90 | 4068797.70 | 7.23 | 914.20 | -2.26 | 541.00 |
| 542025.80 | 4068796.60 | 8.10 | 914.10 | -2.36 | 543.00 |
| 542023.50 | 4068797.00 | 8.11 | 914.00 | -2.35 | 545.00 |
| 542021.70 | 4068796.50 | 8.79 | 913.70 | -2.11 | 547.00 |
| 542019.50 | 4068795.60 | 8.04 | 913.40 | -2.05 | 549.00 |
| 542017.20 | 4068794.80 | 8.60 | 912.90 | -2.13 | 551.00 |
| 542014.50 | 4068794.90 | 9.06 | 912.80 | -2.68 | 553.00 |
| 542012.20 | 4068794.30 | 8.62 | 912.60 | -2.63 | 555.00 |
| 542010.20 | 4068793.20 | 6.60 | 912.90 | -2.26 | 557.00 |
| 542008.90 | 4068792.80 | 5.66 | 913.30 | -2.27 | 559.00 |
| 542007.70 | 4068792.10 | 5.99 | 913.80 | -2.07 | 561.00 |
| 542005.80 | 4068792.30 | 6.27 | 914.00 | -2.25 | 563.00 |
| 542003.40 | 4068791.90 | 6.01 | 914.00 | -2.34 | 565.00 |
| 542000.80 | 4068791.80 | 5.83 | 914.00 | -2.32 | 567.00 |
| 541998.30 | 4068791.60 | 5.79 | 914.10 | -2.42 | 569.00 |
| 541995.70 | 4068791.40 | 5.47 | 914.10 | -2.49 | 571.00 |
| 541993.20 | 4068791.80 | 5.00 | 914.10 | -2.42 | 573.00 |
| 541990.70 | 4068792.50 | 4.82 | 914.00 | -2.42 | 575.00 |
| 541988.20 | 4068793.00 | 4.77 | 914.00 | -2.34 | 577.00 |
| 541985.60 | 4068793.00 | 4.67 | 914.10 | -2.40 | 579.00 |
| 541983.40 | 4068794.40 | 4.39 | 914.00 | -2.32 | 581.00 |
| 541981.00 | 4068795.50 | 3.77 | 913.80 | -2.30 | 583.00 |
| 541978.80 | 4068796.40 | 4.08 | 913.70 | -2.47 | 585.00 |
| 541976.90 | 4068796.70 | 5.45 | 913.10 | -2.04 | 587.00 |
| 541974.50 | 4068798.10 | 4.20 | 912.70 | -2.21 | 589.00 |
| 541971.90 | 4068798.60 | 3.25 | 913.00 | -2.18 | 591.00 |
| 541969.50 | 4068798.80 | 3.34 | 913.00 | -2.04 | 593.00 |
| 541967.00 | 4068798.90 | 2.17 | 913.10 | -1.98 | 595.00 |
| 541964.60 | 4068798.60 | 2.15 | 913.00 | -1.85 | 597.00 |
| 541961.90 | 4068799.00 | 2.07 | 912.90 | -1.83 | 599.00 |
| 541959.40 | 4068799.40 | 1.59 | 913.00 | -1.88 | 601.00 |
| 541957.30 | 4068800.40 | 1.66 | 913.20 | -1.85 | 603.00 |
| 541954.80 | 4068800.50 | 1.56 | 913.20 | -1.87 | 605.00 |
| 541952.20 | 4068800.80 | 1.58 | 913.10 | -1.97 | 607.00 |
| 541949.80 | 4068800.90 | 1.75 | 913.10 | -1.84 | 609.00 |
| 541947.40 | 4068801.50 | 1.74 | 913.10 | -1.83 | 611.00 |
| 541945.00 | 4068801.90 | 1.62 | 913.20 | -1.89 | 613.00 |
| 541942.70 | 4068802.20 | 1.60 | 913.40 | -1.95 | 615.00 |
| 541940.40 | 4068802.80 | 1.54 | 913.40 | -1.93 | 617.00 |
| 541938.00 | 4068802.90 | 1.79 | 913.40 | -1.84 | 619.00 |
| 541935.70 | 4068803.10 | 1.64 | 913.30 | -2.02 | 621.00 |
| 541933.40 | 4068804.20 | 1.97 | 913.10 | -1.98 | 623.00 |
| 541930.70 | 4068804.60 | 1.80 | 913.00 | -1.88 | 625.00 |
| 541928.00 | 4068804.60 | 1.70 | 913.00 | -1.83 | 627.00 |

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| 541925.70 | 4068805.20 | 1.71 | 913.20 | -1.91 | 629.00 |
| 541923.30 | 4068805.70 | 1.83 | 913.30 | -1.97 | 631.00 |
| 541920.80 | 4068805.90 | 1.68 | 913.20 | -1.93 | 633.00 |
| 541918.20 | 4068805.90 | 1.63 | 913.20 | -1.93 | 635.00 |
| 541915.70 | 4068806.00 | 1.80 | 913.10 | -1.92 | 637.00 |
| 541913.40 | 4068806.50 | 1.81 | 913.10 | -2.21 | 639.00 |
| 541910.90 | 4068806.70 | 1.64 | 913.00 | -2.02 | 641.00 |
| 541908.40 | 4068807.00 | 1.49 | 913.00 | -2.18 | 643.00 |
| 541906.40 | 4068807.70 | 1.75 | 913.00 | -2.11 | 645.00 |
| 541904.40 | 4068807.90 | 2.05 | 912.60 | -2.06 | 647.00 |
| 541901.70 | 4068808.30 | 1.73 | 912.30 | -1.73 | 649.00 |
| 541899.20 | 4068808.90 | 1.59 | 912.50 | -1.91 | 651.00 |
| 541896.80 | 4068809.20 | 1.62 | 912.50 | -2.25 | 653.00 |
| 541894.30 | 4068809.30 | 1.60 | 912.40 | -1.99 | 655.00 |
| 541891.60 | 4068809.10 | 1.81 | 912.30 | -1.84 | 657.00 |
| 541889.30 | 4068809.30 | 1.96 | 912.30 | -1.98 | 659.00 |
| 541886.90 | 4068809.60 | 2.02 | 912.20 | -1.96 | 661.00 |
| 541884.30 | 4068809.80 | 2.00 | 912.10 | -2.07 | 663.00 |
| 541882.20 | 4068809.90 | 2.13 | 912.20 | -1.72 | 665.00 |
| 541879.80 | 4068810.90 | 1.81 | 912.30 | -1.87 | 667.00 |
| 541877.70 | 4068811.20 | 2.00 | 912.40 | -1.86 | 669.00 |
| 541875.30 | 4068811.20 | 2.00 | 912.30 | -1.87 | 671.00 |
| 541873.10 | 4068811.40 | 2.00 | 912.30 | -1.76 | 673.00 |
| 541870.70 | 4068811.30 | 2.13 | 912.20 | -1.87 | 675.00 |
| 541868.30 | 4068811.20 | 2.10 | 912.20 | -1.78 | 677.00 |
| 541865.90 | 4068811.50 | 2.14 | 912.10 | -1.71 | 679.00 |
| 541863.40 | 4068812.00 | 2.38 | 912.10 | -1.76 | 681.00 |
| 541860.90 | 4068812.40 | 2.42 | 912.10 | -1.84 | 683.00 |
| 541858.40 | 4068812.10 | 2.47 | 912.00 | -1.82 | 685.00 |
| 541856.00 | 4068812.00 | 2.25 | 912.00 | -1.78 | 687.00 |
| 541853.60 | 4068811.80 | 2.69 | 912.10 | -1.90 | 689.00 |
| 541851.20 | 4068811.50 | 2.87 | 912.00 | -1.98 | 691.00 |
| 541848.70 | 4068811.60 | 2.64 | 912.00 | -1.89 | 693.00 |
| 541846.20 | 4068811.30 | 3.33 | 911.80 | -1.90 | 695.00 |
| 541843.70 | 4068810.70 | 2.77 | 911.70 | -1.96 | 697.00 |
| 541841.30 | 4068810.20 | 2.59 | 911.80 | -1.99 | 699.00 |
| 541838.90 | 4068809.50 | 2.50 | 911.60 | -1.95 | 701.00 |
| 541836.40 | 4068809.30 | 2.65 | 911.50 | -1.95 | 703.00 |
| 541834.00 | 4068808.90 | 2.38 | 911.40 | -2.00 | 705.00 |
| 541831.70 | 4068808.60 | 2.39 | 911.50 | -2.08 | 707.00 |
| 541829.20 | 4068808.90 | 2.97 | 911.30 | -1.88 | 709.00 |
| 541826.50 | 4068808.90 | 3.21 | 911.10 | -1.69 | 711.00 |
| 541824.10 | 4068808.40 | 3.21 | 911.30 | -1.77 | 713.00 |
| 541822.10 | 4068808.20 | 2.98 | 911.40 | -1.73 | 715.00 |
| 541820.00 | 4068807.40 | 3.34 | 911.40 | -1.65 | 717.00 |
| 541817.90 | 4068806.70 | 3.37 | 911.50 | -1.92 | 719.00 |
| 541815.50 | 4068807.00 | 4.31 | 911.50 | -1.90 | 721.00 |
| 541813.10 | 4068807.60 | 3.67 | 911.50 | -1.86 | 723.00 |
| 541810.60 | 4068807.50 | 3.65 | 911.50 | -1.84 | 725.00 |
| 541808.00 | 4068807.90 | 3.69 | 911.50 | -1.96 | 727.00 |
| 541805.50 | 4068807.80 | 3.11 | 911.40 | -1.92 | 729.00 |
| 541803.30 | 4068807.20 | 2.74 | 911.40 | -2.02 | 731.00 |
| 541801.20 | 4068807.00 | 2.87 | 911.30 | -1.87 | 733.00 |
| 541797.80 | 4068807.50 | 2.78 | 910.90 | -1.87 | 760.00 |
| 541798.00 | 4068807.20 | 2.28 | 911.00 | -2.00 | 762.00 |
| 541797.40 | 4068805.60 | 2.60 | 910.90 | -2.07 | 764.00 |
| 541797.10 | 4068803.40 | 2.42 | 910.80 | -2.23 | 766.00 |

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|-----------|------------|------|--------|-------|--------|
| 541796.80 | 4068801.20 | 2.46 | 910.80 | -2.07 | 768.00 |
| 541795.90 | 4068798.90 | 2.22 | 910.70 | -2.11 | 770.00 |
| 541794.80 | 4068796.60 | 2.02 | 910.60 | -2.02 | 772.00 |
| 541794.30 | 4068794.20 | 1.95 | 910.50 | -1.96 | 774.00 |
| 541793.90 | 4068791.70 | 1.87 | 910.50 | -2.12 | 776.00 |
| 541792.90 | 4068789.60 | 2.17 | 910.50 | -2.02 | 778.00 |
| 541792.40 | 4068787.30 | 2.09 | 910.30 | -2.11 | 780.00 |
| 541792.20 | 4068784.90 | 2.06 | 910.20 | -2.04 | 782.00 |
| 541791.80 | 4068782.30 | 1.88 | 910.20 | -2.08 | 784.00 |
| 541791.70 | 4068779.70 | 2.18 | 910.10 | -2.01 | 786.00 |
| 541791.50 | 4068777.10 | 2.22 | 910.10 | -1.98 | 788.00 |
| 541791.20 | 4068774.60 | 2.34 | 910.00 | -2.10 | 790.00 |
| 541791.20 | 4068772.10 | 2.12 | 909.90 | -2.05 | 792.00 |
| 541791.40 | 4068769.70 | 2.55 | 909.90 | -1.96 | 794.00 |
| 541791.70 | 4068767.20 | 2.40 | 909.80 | -1.98 | 796.00 |
| 541792.10 | 4068764.70 | 2.33 | 909.70 | -2.09 | 798.00 |
| 541792.10 | 4068762.10 | 2.83 | 909.70 | -2.05 | 800.00 |
| 541792.20 | 4068759.60 | 3.03 | 909.60 | -2.18 | 802.00 |
| 541792.40 | 4068757.00 | 3.37 | 909.60 | -2.16 | 804.00 |
| 541792.80 | 4068755.00 | 2.87 | 909.70 | -2.09 | 806.00 |
| 541793.60 | 4068752.90 | 2.58 | 909.70 | -2.05 | 808.00 |
| 541794.40 | 4068750.70 | 2.35 | 909.60 | -2.02 | 810.00 |
| 541795.40 | 4068748.50 | 2.69 | 909.30 | -1.89 | 812.00 |
| 541796.60 | 4068746.30 | 3.11 | 909.20 | -2.02 | 814.00 |
| 541798.10 | 4068744.20 | 2.85 | 909.30 | -2.09 | 816.00 |
| 541798.90 | 4068742.10 | 2.72 | 909.40 | -1.98 | 818.00 |
| 541800.00 | 4068740.00 | 2.55 | 909.40 | -1.95 | 820.00 |
| 541800.40 | 4068737.70 | 2.36 | 909.40 | -2.04 | 822.00 |
| 541800.30 | 4068735.20 | 2.25 | 909.30 | -1.90 | 824.00 |
| 541800.70 | 4068732.60 | 2.34 | 909.30 | -1.95 | 826.00 |
| 541800.40 | 4068730.00 | 2.36 | 909.30 | -1.98 | 828.00 |
| 541799.80 | 4068727.50 | 2.60 | 909.20 | -1.97 | 830.00 |
| 541800.00 | 4068724.90 | 2.77 | 909.20 | -1.95 | 832.00 |
| 541800.20 | 4068722.90 | 2.60 | 909.30 | -1.92 | 834.00 |
| 541801.20 | 4068720.70 | 2.49 | 909.40 | -2.02 | 836.00 |
| 541801.60 | 4068718.20 | 2.66 | 909.30 | -2.08 | 838.00 |
| 541801.90 | 4068715.60 | 2.75 | 909.20 | -2.07 | 840.00 |
| 541802.10 | 4068713.00 | 2.54 | 909.00 | -1.98 | 842.00 |
| 541801.60 | 4068710.50 | 2.69 | 909.00 | -2.02 | 844.00 |
| 541800.70 | 4068707.90 | 2.79 | 908.80 | -1.94 | 846.00 |
| 541801.00 | 4068705.60 | 2.86 | 908.20 | -1.84 | 848.00 |
| 541801.30 | 4068703.10 | 3.12 | 908.10 | -1.85 | 850.00 |
| 541800.60 | 4068700.80 | 3.59 | 908.00 | -2.06 | 852.00 |
| 541799.70 | 4068698.40 | 3.40 | 908.00 | -2.11 | 854.00 |
| 541799.30 | 4068695.90 | 2.96 | 908.00 | -2.18 | 856.00 |
| 541800.00 | 4068694.00 | 2.52 | 908.40 | -1.97 | 858.00 |
| 541800.60 | 4068691.70 | 2.15 | 908.20 | -2.03 | 860.00 |
| 541800.60 | 4068689.10 | 2.55 | 908.10 | -2.03 | 862.00 |
| 541800.00 | 4068686.50 | 2.64 | 908.10 | -1.99 | 864.00 |
| 541799.90 | 4068683.80 | 2.86 | 907.90 | -2.02 | 866.00 |
| 541799.90 | 4068681.20 | 2.86 | 908.00 | -2.25 | 868.00 |
| 541799.90 | 4068678.70 | 2.76 | 907.90 | -2.14 | 870.00 |
| 541799.80 | 4068676.20 | 2.67 | 908.00 | -2.01 | 872.00 |
| 541800.50 | 4068674.20 | 2.21 | 908.10 | -2.10 | 874.00 |
| 541800.90 | 4068671.90 | 2.45 | 908.10 | -1.98 | 876.00 |
| 541801.30 | 4068669.40 | 2.28 | 908.00 | -2.08 | 878.00 |
| 541801.80 | 4068666.80 | 2.22 | 907.80 | -2.14 | 880.00 |

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|-----------|------------|------|--------|-------|--------|
| 541802.00 | 4068664.10 | 2.63 | 907.70 | -2.13 | 882.00 |
| 541802.00 | 4068661.50 | 2.51 | 907.70 | -2.16 | 884.00 |
| 541801.90 | 4068658.80 | 2.43 | 907.70 | -2.16 | 886.00 |
| 541801.70 | 4068656.10 | 2.38 | 907.60 | -2.23 | 888.00 |
| 541801.60 | 4068653.50 | 2.36 | 907.60 | -2.27 | 890.00 |
| 541801.70 | 4068650.90 | 2.36 | 907.50 | -2.20 | 892.00 |
| 541802.10 | 4068648.30 | 2.32 | 907.50 | -2.12 | 894.00 |
| 541802.10 | 4068645.70 | 2.40 | 907.40 | -2.02 | 896.00 |
| 541802.50 | 4068643.00 | 2.27 | 907.30 | -2.11 | 898.00 |
| 541802.80 | 4068640.60 | 2.09 | 907.20 | -2.35 | 900.00 |
| 541802.80 | 4068638.20 | 2.35 | 907.20 | -2.44 | 902.00 |
| 541803.10 | 4068636.00 | 2.70 | 907.10 | -2.28 | 904.00 |
| 541802.40 | 4068633.70 | 3.17 | 906.50 | -1.74 | 906.00 |
| 541801.90 | 4068630.90 | 2.92 | 906.50 | -1.64 | 908.00 |
| 541801.50 | 4068628.60 | 2.38 | 906.50 | -1.91 | 910.00 |
| 541801.60 | 4068626.00 | 2.47 | 906.50 | -1.81 | 912.00 |
| 541801.50 | 4068623.30 | 2.40 | 906.50 | -2.07 | 914.00 |
| 541801.10 | 4068620.60 | 2.46 | 906.40 | -1.95 | 916.00 |
| 541800.90 | 4068617.90 | 2.53 | 906.30 | -2.04 | 918.00 |
| 541800.90 | 4068615.30 | 2.42 | 906.20 | -1.98 | 920.00 |
| 541800.50 | 4068612.70 | 2.48 | 906.20 | -2.04 | 922.00 |
| 541801.20 | 4068610.20 | 2.74 | 906.10 | -2.06 | 924.00 |
| 541800.80 | 4068607.70 | 2.71 | 906.10 | -2.01 | 926.00 |
| 541800.30 | 4068605.10 | 2.72 | 905.90 | -1.91 | 928.00 |
| 541800.20 | 4068602.30 | 3.01 | 905.80 | -1.93 | 930.00 |
| 541800.40 | 4068599.70 | 3.00 | 905.80 | -2.06 | 932.00 |
| 541800.40 | 4068597.10 | 2.94 | 905.80 | -2.17 | 934.00 |
| 541800.10 | 4068594.50 | 3.09 | 905.60 | -2.13 | 936.00 |
| 541799.90 | 4068591.80 | 2.96 | 905.50 | -2.25 | 938.00 |
| 541800.10 | 4068589.30 | 2.87 | 905.50 | -2.49 | 940.00 |
| 541800.50 | 4068586.70 | 2.95 | 905.30 | -2.19 | 942.00 |
| 541800.40 | 4068584.40 | 3.12 | 905.00 | -1.62 | 944.00 |
| 541799.20 | 4068582.20 | 3.16 | 905.00 | -2.03 | 946.00 |
| 541798.60 | 4068579.80 | 3.18 | 904.90 | -1.56 | 948.00 |
| 541797.80 | 4068577.60 | 2.85 | 905.10 | -1.87 | 950.00 |
| 541797.90 | 4068575.30 | 2.65 | 905.00 | -2.07 | 952.00 |
| 541797.40 | 4068572.90 | 2.56 | 905.00 | -1.80 | 954.00 |
| 541796.40 | 4068570.50 | 2.44 | 905.10 | -1.92 | 956.00 |
| 541795.50 | 4068568.10 | 2.50 | 905.10 | -1.98 | 958.00 |
| 541795.50 | 4068565.40 | 2.36 | 905.00 | -2.15 | 960.00 |
| 541795.90 | 4068562.70 | 2.10 | 905.00 | -2.19 | 962.00 |
| 541796.40 | 4068560.10 | 2.49 | 904.90 | -1.91 | 964.00 |
| 541796.80 | 4068557.40 | 2.35 | 904.80 | -1.91 | 966.00 |
| 541797.10 | 4068554.80 | 2.58 | 904.80 | -1.84 | 968.00 |
| 541797.20 | 4068552.20 | 2.58 | 904.70 | -2.00 | 970.00 |
| 541798.00 | 4068549.70 | 2.78 | 904.60 | -1.87 | 972.00 |
| 541798.40 | 4068547.10 | 2.66 | 904.60 | -2.05 | 974.00 |
| 541798.70 | 4068544.50 | 2.46 | 904.50 | -1.89 | 976.00 |
| 541798.70 | 4068541.80 | 2.50 | 904.50 | -1.91 | 978.00 |
| 541798.70 | 4068539.30 | 2.31 | 904.60 | -2.06 | 980.00 |
| 541798.80 | 4068536.60 | 2.29 | 904.50 | -2.17 | 982.00 |
| 541799.20 | 4068534.10 | 2.30 | 904.40 | -2.11 | 984.00 |
| 541799.10 | 4068531.30 | 2.23 | 904.20 | -2.05 | 986.00 |
| 541799.00 | 4068529.00 | 2.36 | 904.20 | -2.10 | 988.00 |
| 541799.20 | 4068526.50 | 2.37 | 904.10 | -2.16 | 990.00 |
| 541799.50 | 4068524.10 | 1.98 | 904.00 | -2.14 | 992.00 |
| 541799.00 | 4068521.60 | 2.07 | 904.00 | -2.07 | 994.00 |

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| 541798.50 | 4068519.10 | 2.07 | 904.00 | -2.00 | 996.00 |
| 541798.40 | 4068516.60 | 2.04 | 903.90 | -2.06 | 998.00 |
| 541798.30 | 4068514.10 | 2.17 | 903.80 | -2.00 | 1000.00 |
| 541798.40 | 4068511.40 | 2.11 | 903.70 | -2.18 | 1002.00 |
| 541798.60 | 4068508.80 | 2.20 | 903.60 | -2.12 | 1004.00 |
| 541799.10 | 4068506.10 | 2.10 | 903.50 | -1.99 | 1006.00 |
| 541799.30 | 4068503.50 | 2.03 | 903.50 | -1.92 | 1008.00 |
| 541799.60 | 4068501.00 | 2.21 | 903.40 | -1.88 | 1010.00 |
| 541799.20 | 4068498.60 | 2.05 | 903.30 | -2.26 | 1012.00 |
| 541799.00 | 4068496.20 | 2.12 | 903.30 | -2.04 | 1014.00 |
| 541798.30 | 4068493.90 | 2.20 | 903.10 | -2.04 | 1016.00 |
| 541797.50 | 4068491.50 | 2.07 | 903.00 | -2.21 | 1018.00 |
| 541797.00 | 4068489.10 | 1.99 | 902.90 | -2.40 | 1020.00 |
| 541797.00 | 4068486.70 | 2.54 | 902.90 | -1.97 | 1022.00 |
| 541796.70 | 4068484.30 | 1.84 | 902.90 | -2.01 | 1024.00 |
| 541796.40 | 4068482.00 | 2.03 | 902.80 | -2.04 | 1026.00 |
| 541796.00 | 4068479.40 | 2.23 | 902.60 | -1.89 | 1028.00 |
| 541795.00 | 4068477.20 | 2.11 | 902.60 | -2.14 | 1030.00 |
| 541794.80 | 4068474.70 | 2.23 | 902.50 | -2.37 | 1032.00 |
| 541795.40 | 4068472.60 | 2.57 | 902.50 | -2.47 | 1034.00 |
| 541796.80 | 4068470.60 | 3.46 | 902.30 | -1.84 | 1036.00 |
| 541796.50 | 4068468.30 | 3.34 | 902.20 | -2.10 | 1038.00 |
| 541795.70 | 4068465.80 | 3.47 | 902.10 | -2.27 | 1040.00 |
| 541795.20 | 4068463.30 | 4.26 | 902.20 | -2.16 | 1042.00 |
| 541795.90 | 4068461.30 | 3.90 | 902.80 | -2.10 | 1044.00 |
| 541796.40 | 4068459.40 | 3.50 | 903.00 | -2.12 | 1046.00 |
| 541796.80 | 4068457.10 | 2.69 | 903.00 | -2.07 | 1048.00 |
| 541797.00 | 4068454.60 | 2.62 | 903.00 | -2.05 | 1050.00 |
| 541796.70 | 4068451.90 | 3.95 | 903.10 | -2.19 | 1052.00 |
| 541796.50 | 4068449.20 | 4.03 | 903.10 | -2.12 | 1054.00 |
| 541796.30 | 4068446.60 | 4.05 | 903.10 | -2.18 | 1056.00 |
| 541795.90 | 4068444.00 | 4.59 | 903.00 | -2.15 | 1058.00 |
| 541795.20 | 4068441.30 | 4.23 | 902.90 | -2.03 | 1060.00 |
| 541794.60 | 4068438.70 | 3.97 | 902.80 | -2.15 | 1062.00 |
| 541793.90 | 4068436.10 | 4.46 | 902.70 | -2.11 | 1064.00 |
| 541793.90 | 4068433.60 | 5.17 | 902.70 | -2.07 | 1066.00 |
| 541794.40 | 4068431.10 | 5.50 | 902.70 | -2.13 | 1068.00 |
| 541795.30 | 4068428.70 | 4.32 | 902.60 | -2.10 | 1070.00 |
| 541795.30 | 4068426.00 | 4.29 | 902.50 | -2.17 | 1072.00 |
| 541795.30 | 4068423.30 | 3.96 | 902.50 | -2.04 | 1074.00 |
| 541795.60 | 4068420.90 | 3.83 | 902.50 | -1.96 | 1076.00 |
| 541795.70 | 4068418.40 | 4.25 | 902.40 | -2.12 | 1078.00 |
| 541795.90 | 4068415.70 | 3.75 | 902.30 | -1.99 | 1080.00 |
| 541796.30 | 4068413.20 | 3.60 | 902.20 | -2.03 | 1082.00 |
| 541795.70 | 4068410.70 | 3.46 | 902.20 | -1.99 | 1084.00 |
| 541795.10 | 4068408.10 | 3.61 | 902.10 | -1.93 | 1086.00 |
| 541795.00 | 4068405.50 | 3.91 | 902.00 | -2.09 | 1088.00 |
| 541795.10 | 4068402.80 | 3.54 | 901.80 | -2.03 | 1090.00 |
| 541795.30 | 4068400.10 | 3.67 | 901.70 | -2.00 | 1092.00 |
| 541795.20 | 4068397.50 | 3.37 | 901.60 | -2.05 | 1094.00 |
| 541795.00 | 4068394.80 | 3.60 | 901.50 | -2.09 | 1096.00 |
| 541794.90 | 4068392.10 | 3.79 | 901.40 | -2.03 | 1098.00 |
| 541795.60 | 4068389.60 | 3.81 | 901.20 | -2.26 | 1100.00 |
| 541796.20 | 4068387.10 | 3.68 | 901.00 | -1.99 | 1102.00 |
| 541796.10 | 4068384.50 | 3.27 | 900.90 | -1.97 | 1104.00 |
| 541796.10 | 4068381.80 | 3.13 | 900.80 | -1.96 | 1106.00 |
| 541795.80 | 4068379.20 | 2.98 | 900.70 | -2.05 | 1108.00 |

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| 541795.90 | 4068376.60 | 3.27 | 900.50 | -2.02 | 1110.00 |
| 541795.80 | 4068373.90 | 3.15 | 900.50 | -2.09 | 1112.00 |
| 541795.40 | 4068371.20 | 3.19 | 900.50 | -2.12 | 1114.00 |
| 541795.40 | 4068368.60 | 3.19 | 900.50 | -2.09 | 1116.00 |
| 541795.30 | 4068366.00 | 3.73 | 900.50 | -2.08 | 1118.00 |
| 541795.00 | 4068363.40 | 3.91 | 900.40 | -2.00 | 1120.00 |
| 541795.10 | 4068360.90 | 3.23 | 900.30 | -2.15 | 1122.00 |
| 541795.60 | 4068358.40 | 3.78 | 900.20 | -2.04 | 1124.00 |
| 541796.50 | 4068356.10 | 3.56 | 900.20 | -2.11 | 1126.00 |
| 541797.30 | 4068353.60 | 3.54 | 900.10 | -2.11 | 1128.00 |
| 541797.60 | 4068351.20 | 3.68 | 900.10 | -2.14 | 1130.00 |
| 541797.70 | 4068348.60 | 3.81 | 900.10 | -1.95 | 1132.00 |
| 541798.00 | 4068346.10 | 3.58 | 900.00 | -2.11 | 1134.00 |
| 541798.60 | 4068343.80 | 3.60 | 900.00 | -2.11 | 1136.00 |
| 541799.20 | 4068341.30 | 3.26 | 899.90 | -2.14 | 1138.00 |
| 541799.80 | 4068339.00 | 3.07 | 899.50 | -2.20 | 1140.00 |
| 541798.60 | 4068337.00 | 3.02 | 899.50 | -1.95 | 1142.00 |
| 541797.80 | 4068334.80 | 2.94 | 899.00 | -2.21 | 1144.00 |
| 541798.20 | 4068332.80 | 3.09 | 898.50 | -2.09 | 1146.00 |
| 541798.40 | 4068330.50 | 2.76 | 898.20 | -2.46 | 1148.00 |
| 541799.40 | 4068328.10 | 2.54 | 897.90 | -1.94 | 1150.00 |
| 541800.50 | 4068326.20 | 2.49 | 898.20 | -1.78 | 1152.00 |
| 541801.20 | 4068324.10 | 2.21 | 898.10 | -2.27 | 1154.00 |
| 541801.60 | 4068322.00 | 2.55 | 898.20 | -1.47 | 1156.00 |
| 541802.50 | 4068320.10 | 2.35 | 898.30 | -1.98 | 1158.00 |
| 541802.30 | 4068317.70 | 2.19 | 898.20 | -1.73 | 1160.00 |
| 541801.20 | 4068315.50 | 2.22 | 898.10 | -1.98 | 1162.00 |
| 541801.10 | 4068313.30 | 2.16 | 897.80 | -4.20 | 1164.00 |
| 541801.30 | 4068310.80 | 2.66 | 897.80 | -1.95 | 1166.00 |
| 541801.20 | 4068308.30 | 2.72 | 897.50 | -2.02 | 1168.00 |
| 541800.50 | 4068305.70 | 2.62 | 897.40 | -1.76 | 1170.00 |
| 541800.30 | 4068303.20 | 2.33 | 897.50 | -2.19 | 1172.00 |
| 541800.50 | 4068300.70 | 2.14 | 897.30 | -2.06 | 1174.00 |
| 541800.60 | 4068298.00 | 2.26 | 897.10 | -1.95 | 1176.00 |
| 541800.70 | 4068295.50 | 2.11 | 897.10 | -1.95 | 1178.00 |
| 541800.40 | 4068293.00 | 2.15 | 897.00 | -2.09 | 1180.00 |
| 541800.60 | 4068290.60 | 2.30 | 896.90 | -1.99 | 1182.00 |
| 541801.20 | 4068288.40 | 2.20 | 896.80 | -2.07 | 1184.00 |
| 541801.60 | 4068285.90 | 2.42 | 896.60 | -1.93 | 1186.00 |
| 541802.50 | 4068283.50 | 2.44 | 896.50 | -1.72 | 1188.00 |
| 541803.10 | 4068281.20 | 2.18 | 896.70 | -1.87 | 1190.00 |
| 541803.00 | 4068279.00 | 2.21 | 896.80 | -1.87 | 1192.00 |
| 541802.50 | 4068276.60 | 2.11 | 896.70 | -1.99 | 1194.00 |
| 541802.90 | 4068274.40 | 2.24 | 896.80 | -2.30 | 1196.00 |
| 541803.10 | 4068272.00 | 2.15 | 896.80 | -2.30 | 1198.00 |
| 541803.40 | 4068269.50 | 2.27 | 896.60 | -2.05 | 1200.00 |
| 541803.60 | 4068266.90 | 2.27 | 896.60 | -2.14 | 1202.00 |
| 541803.50 | 4068264.30 | 2.21 | 896.50 | -2.24 | 1204.00 |
| 541803.70 | 4068261.60 | 2.21 | 896.40 | -2.22 | 1206.00 |
| 541804.00 | 4068259.30 | 2.07 | 896.30 | -2.07 | 1208.00 |
| 541803.90 | 4068257.00 | 2.16 | 896.20 | -2.09 | 1210.00 |
| 541804.00 | 4068254.40 | 2.00 | 896.20 | -2.20 | 1212.00 |
| 541803.70 | 4068252.00 | 2.12 | 895.90 | -1.99 | 1214.00 |
| 541803.00 | 4068249.80 | 2.13 | 895.80 | -2.47 | 1216.00 |
| 541802.40 | 4068247.40 | 2.33 | 895.70 | -2.13 | 1218.00 |
| 541802.10 | 4068244.90 | 2.11 | 895.70 | -2.86 | 1220.00 |
| 541802.60 | 4068242.60 | 2.20 | 895.60 | -2.35 | 1222.00 |

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|-----------|------------|------|--------|-------|---------|
| 541803.10 | 4068240.70 | 2.20 | 895.50 | -2.40 | 1224.00 |
| 541803.60 | 4068238.80 | 3.01 | 895.80 | -1.60 | 1226.00 |
| 541803.80 | 4068237.00 | 2.37 | 895.90 | -2.31 | 1228.00 |
| 541803.80 | 4068234.50 | 2.45 | 895.90 | -2.43 | 1230.00 |
| 541803.50 | 4068232.10 | 2.29 | 895.90 | -2.87 | 1232.00 |
| 541803.70 | 4068229.80 | 2.33 | 896.00 | -2.67 | 1234.00 |
| 541803.30 | 4068227.40 | 1.85 | 895.80 | -4.62 | 1236.00 |
| 541803.90 | 4068225.10 | 3.08 | 895.90 | -2.03 | 1238.00 |
| 541804.50 | 4068223.20 | 2.76 | 896.30 | -2.32 | 1240.00 |
| 541804.40 | 4068221.30 | 2.85 | 896.60 | -2.33 | 1242.00 |
| 541804.20 | 4068219.30 | 2.83 | 896.70 | -2.27 | 1244.00 |
| 541804.40 | 4068217.20 | 3.04 | 896.80 | -2.37 | 1246.00 |
| 541805.10 | 4068215.30 | 3.26 | 897.10 | -2.38 | 1248.00 |
| 541805.70 | 4068213.10 | 3.52 | 897.20 | -2.60 | 1250.00 |
| 541805.70 | 4068210.80 | 3.66 | 897.30 | -2.49 | 1252.00 |
| 541805.40 | 4068208.60 | 3.31 | 897.40 | -2.90 | 1254.00 |
| 541804.40 | 4068206.50 | 4.04 | 897.30 | -2.66 | 1256.00 |
| 541804.10 | 4068204.10 | 3.54 | 897.30 | -2.77 | 1258.00 |
| 541803.30 | 4068201.70 | 3.94 | 897.30 | -2.82 | 1260.00 |
| 541803.70 | 4068199.50 | 4.01 | 897.40 | -2.85 | 1262.00 |
| 541803.00 | 4068197.00 | 3.60 | 897.40 | -2.74 | 1264.00 |
| 541803.00 | 4068194.60 | 3.53 | 897.40 | -2.85 | 1266.00 |
| 541803.30 | 4068192.10 | 3.78 | 897.50 | -2.82 | 1268.00 |
| 541803.70 | 4068189.80 | 3.43 | 897.60 | -2.97 | 1270.00 |
| 541803.40 | 4068187.30 | 3.27 | 897.60 | -2.92 | 1272.00 |
| 541803.30 | 4068184.90 | 3.21 | 897.60 | -3.02 | 1274.00 |
| 541803.50 | 4068182.70 | 3.49 | 897.50 | -3.25 | 1276.00 |
| 541803.90 | 4068180.40 | 3.67 | 897.40 | -3.22 | 1278.00 |
| 541803.80 | 4068178.00 | 3.37 | 897.50 | -3.21 | 1280.00 |
| 541803.70 | 4068175.40 | 3.51 | 897.40 | -3.33 | 1282.00 |
| 541804.00 | 4068173.00 | 3.05 | 897.40 | -3.44 | 1284.00 |
| 541803.30 | 4068170.50 | 3.50 | 897.30 | -3.36 | 1286.00 |
| 541803.90 | 4068168.00 | 3.64 | 897.30 | -3.32 | 1288.00 |
| 541804.20 | 4068165.30 | 3.82 | 897.20 | -3.38 | 1290.00 |
| 541804.40 | 4068162.60 | 4.03 | 897.20 | -3.37 | 1292.00 |
| 541804.80 | 4068160.00 | 3.94 | 897.10 | -3.45 | 1294.00 |
| 541804.40 | 4068157.40 | 3.88 | 896.90 | -3.48 | 1296.00 |
| 541804.50 | 4068154.90 | 3.60 | 896.80 | -3.25 | 1298.00 |
| 541805.20 | 4068152.70 | 3.68 | 896.50 | -3.42 | 1300.00 |
| 541805.40 | 4068150.50 | 4.42 | 896.20 | -2.75 | 1302.00 |
| 541805.40 | 4068148.20 | 4.63 | 895.80 | -0.81 | 1304.00 |
| 541806.10 | 4068145.80 | 4.57 | 895.80 | -0.16 | 1306.00 |
| 541806.40 | 4068143.80 | 4.23 | 896.00 | -1.02 | 1308.00 |
| 541806.80 | 4068141.70 | 3.76 | 896.30 | -1.81 | 1310.00 |
| 541806.90 | 4068139.50 | 4.16 | 896.40 | -2.59 | 1312.00 |
| 541806.70 | 4068137.00 | 4.37 | 896.50 | -2.26 | 1314.00 |
| 541806.60 | 4068134.40 | 4.62 | 896.60 | -1.70 | 1316.00 |
| 541806.80 | 4068131.90 | 4.15 | 896.70 | -1.61 | 1318.00 |
| 541806.10 | 4068129.20 | 3.78 | 896.70 | -1.93 | 1320.00 |
| 541805.80 | 4068126.60 | 4.14 | 896.70 | -1.79 | 1322.00 |
| 541806.00 | 4068124.30 | 4.13 | 896.80 | -1.66 | 1324.00 |
| 541806.30 | 4068121.90 | 4.23 | 896.80 | -1.56 | 1326.00 |
| 541806.20 | 4068119.70 | 5.12 | 896.90 | -0.84 | 1328.00 |
| 541806.20 | 4068117.50 | 6.35 | 897.00 | -1.22 | 1330.00 |
| 541806.00 | 4068115.00 | 4.73 | 897.00 | -2.46 | 1332.00 |
| 541805.90 | 4068112.60 | 5.47 | 897.00 | -2.05 | 1334.00 |

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| 541805.70 | 4068110.00 | 8.04 | 897.00 | -1.74 | 1336.00 |
| 541805.10 | 4068107.50 | 6.59 | 897.00 | -2.38 | 1338.00 |
| 541804.70 | 4068105.00 | 4.85 | 896.90 | -2.78 | 1340.00 |
| 541804.90 | 4068102.30 | 4.42 | 896.90 | -1.62 | 1342.00 |
| 541804.90 | 4068099.80 | 4.85 | 896.90 | -0.84 | 1344.00 |
| 541804.70 | 4068097.30 | 4.43 | 896.90 | -1.17 | 1346.00 |
| 541804.50 | 4068094.70 | 4.05 | 896.80 | -1.40 | 1348.00 |
| 541804.80 | 4068092.20 | 3.20 | 896.80 | -1.76 | 1350.00 |
| 541804.60 | 4068089.80 | 3.21 | 896.70 | -1.08 | 1352.00 |
| 541805.20 | 4068087.30 | 3.89 | 896.60 | -0.60 | 1354.00 |
| 541805.20 | 4068084.80 | 3.73 | 896.60 | -0.95 | 1356.00 |
| 541805.50 | 4068082.40 | 3.14 | 896.40 | -0.79 | 1358.00 |
| 541805.10 | 4068080.00 | 3.29 | 896.40 | -0.90 | 1360.00 |
| 541804.60 | 4068077.40 | 3.16 | 896.20 | -0.43 | 1362.00 |
| 541804.20 | 4068074.90 | 3.04 | 896.10 | -1.18 | 1364.00 |
| 541803.10 | 4068072.80 | 3.61 | 895.90 | -0.69 | 1366.00 |
| 541802.90 | 4068070.30 | 3.00 | 895.80 | -1.03 | 1368.00 |
| 541803.20 | 4068067.80 | 2.99 | 895.70 | -1.64 | 1370.00 |
| 541803.50 | 4068065.30 | 3.24 | 895.60 | -0.87 | 1372.00 |
| 541803.90 | 4068062.90 | 2.90 | 895.40 | -0.85 | 1374.00 |
| 541803.90 | 4068060.40 | 3.13 | 895.20 | -0.63 | 1376.00 |
| 541803.80 | 4068057.90 | 3.67 | 895.10 | -1.13 | 1378.00 |
| 541803.90 | 4068055.40 | 3.92 | 895.00 | -1.45 | 1380.00 |
| 541803.80 | 4068052.80 | 3.61 | 894.80 | -1.13 | 1382.00 |
| 541803.80 | 4068050.20 | 3.87 | 894.60 | -1.17 | 1384.00 |
| 541803.90 | 4068047.80 | 3.63 | 894.40 | -1.43 | 1386.00 |
| 541803.50 | 4068045.30 | 3.89 | 894.30 | -1.25 | 1388.00 |
| 541803.00 | 4068042.80 | 3.89 | 894.10 | -0.85 | 1390.00 |
| 541802.80 | 4068040.20 | 4.39 | 893.90 | -1.07 | 1392.00 |
| 541802.50 | 4068038.10 | 4.83 | 893.70 | -1.30 | 1394.00 |
| 541799.80 | 4068036.10 | 5.86 | 893.70 | -1.39 | 1442.00 |
| 541799.90 | 4068036.10 | 5.72 | 893.70 | -1.53 | 1443.00 |
| 541801.10 | 4068036.00 | 5.86 | 893.60 | -1.97 | 1445.00 |
| 541803.10 | 4068035.10 | 5.71 | 893.50 | -2.28 | 1447.00 |
| 541805.40 | 4068035.00 | 5.29 | 893.60 | -2.61 | 1449.00 |
| 541808.00 | 4068035.10 | 6.31 | 893.50 | -2.74 | 1451.00 |
| 541810.50 | 4068035.50 | 7.13 | 893.50 | -2.86 | 1453.00 |
| 541812.90 | 4068036.30 | 6.80 | 893.50 | -3.06 | 1455.00 |
| 541815.40 | 4068035.90 | 7.32 | 893.50 | -3.05 | 1457.00 |
| 541817.90 | 4068036.10 | 6.82 | 893.40 | -3.00 | 1459.00 |
| 541820.20 | 4068036.50 | 6.96 | 893.50 | -3.19 | 1461.00 |
| 541822.60 | 4068037.00 | 6.42 | 893.50 | -3.34 | 1463.00 |
| 541825.00 | 4068037.30 | 6.07 | 893.50 | -3.31 | 1465.00 |
| 541827.30 | 4068037.90 | 6.03 | 893.50 | -3.22 | 1467.00 |
| 541829.70 | 4068038.10 | 6.78 | 893.60 | -3.17 | 1469.00 |
| 541831.90 | 4068038.50 | 7.22 | 893.50 | -3.34 | 1471.00 |
| 541834.00 | 4068039.00 | 5.91 | 893.50 | -3.17 | 1473.00 |
| 541836.20 | 4068039.90 | 5.60 | 893.50 | -3.28 | 1475.00 |
| 541838.40 | 4068040.30 | 5.56 | 893.50 | -3.22 | 1477.00 |
| 541840.60 | 4068040.20 | 6.47 | 893.40 | -3.16 | 1479.00 |
| 541842.90 | 4068040.30 | 5.85 | 893.40 | -3.36 | 1481.00 |
| 541845.00 | 4068041.00 | 4.90 | 893.60 | -3.17 | 1483.00 |
| 541847.00 | 4068041.10 | 6.40 | 893.40 | -2.87 | 1485.00 |
| 541849.20 | 4068041.30 | 6.08 | 893.20 | -2.77 | 1487.00 |
| 541851.80 | 4068040.50 | 5.07 | 893.50 | -2.50 | 1503.00 |
| 541851.90 | 4068041.30 | 5.07 | 893.50 | -2.74 | 1505.00 |
| 541852.40 | 4068043.40 | 5.50 | 893.60 | -2.72 | 1507.00 |

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| 541852.90 | 4068045.70 | 6.32 | 893.60 | -2.21 | 1509.00 |
| 541852.30 | 4068047.80 | 6.67 | 893.80 | -2.50 | 1511.00 |
| 541851.70 | 4068049.60 | 6.12 | 894.00 | -2.78 | 1513.00 |
| 541851.30 | 4068051.70 | 6.00 | 894.20 | -2.46 | 1515.00 |
| 541851.30 | 4068054.00 | 5.46 | 894.20 | -2.68 | 1517.00 |
| 541850.90 | 4068056.20 | 4.62 | 894.40 | -3.15 | 1519.00 |
| 541851.10 | 4068058.80 | 5.38 | 894.40 | -2.70 | 1521.00 |
| 541851.00 | 4068061.00 | 6.29 | 894.60 | -2.04 | 1523.00 |
| 541850.50 | 4068063.30 | 5.58 | 894.70 | -2.45 | 1525.00 |
| 541849.90 | 4068065.50 | 6.31 | 894.70 | -2.59 | 1527.00 |
| 541849.50 | 4068067.80 | 7.50 | 894.80 | -2.39 | 1529.00 |
| 541849.20 | 4068069.90 | 7.38 | 894.90 | -2.13 | 1531.00 |
| 541848.60 | 4068072.10 | 6.88 | 895.00 | -2.00 | 1533.00 |
| 541848.30 | 4068074.30 | 7.34 | 895.20 | -2.51 | 1535.00 |
| 541847.30 | 4068076.40 | 7.48 | 895.30 | -2.43 | 1537.00 |
| 541846.80 | 4068078.70 | 7.74 | 895.50 | -1.69 | 1539.00 |
| 541846.20 | 4068080.80 | 8.77 | 895.60 | -1.57 | 1541.00 |
| 541845.80 | 4068083.00 | 7.79 | 895.70 | -1.72 | 1543.00 |
| 541845.30 | 4068085.10 | 6.48 | 895.90 | -1.78 | 1545.00 |
| 541844.10 | 4068087.10 | 6.09 | 896.00 | -1.85 | 1547.00 |
| 541844.30 | 4068089.40 | 6.57 | 896.20 | -2.41 | 1549.00 |
| 541844.50 | 4068091.80 | 7.46 | 896.30 | -2.09 | 1551.00 |
| 541844.20 | 4068094.30 | 6.92 | 896.40 | -1.92 | 1553.00 |
| 541844.40 | 4068096.60 | 5.86 | 896.50 | -2.00 | 1555.00 |
| 541845.10 | 4068098.90 | 6.97 | 896.60 | -2.42 | 1557.00 |
| 541845.90 | 4068101.10 | 6.88 | 896.60 | -2.43 | 1559.00 |
| 541847.10 | 4068103.00 | 6.75 | 896.80 | -2.40 | 1561.00 |
| 541848.30 | 4068104.90 | 6.14 | 896.90 | -1.64 | 1563.00 |
| 541848.60 | 4068107.20 | 7.66 | 897.10 | -1.29 | 1565.00 |
| 541849.30 | 4068109.00 | 7.10 | 897.30 | -1.89 | 1567.00 |
| 541849.80 | 4068111.20 | 5.90 | 897.30 | -2.56 | 1569.00 |
| 541850.50 | 4068113.40 | 6.45 | 897.50 | -2.43 | 1571.00 |
| 541851.50 | 4068115.50 | 7.07 | 897.60 | -1.78 | 1573.00 |
| 541852.80 | 4068117.30 | 7.50 | 897.70 | -2.11 | 1575.00 |
| 541854.50 | 4068118.90 | 7.59 | 897.70 | -2.59 | 1577.00 |
| 541855.50 | 4068121.10 | 6.88 | 897.80 | -1.85 | 1579.00 |
| 541855.90 | 4068123.30 | 6.79 | 897.90 | -1.29 | 1581.00 |
| 541856.80 | 4068125.70 | 5.87 | 898.10 | -1.53 | 1583.00 |
| 541857.50 | 4068127.90 | 4.47 | 898.20 | -0.81 | 1585.00 |
| 541858.40 | 4068130.00 | 5.03 | 898.40 | -1.62 | 1587.00 |
| 541859.60 | 4068132.20 | 4.25 | 898.60 | -1.66 | 1589.00 |
| 541860.30 | 4068134.60 | 3.64 | 898.60 | -1.00 | 1591.00 |
| 541860.80 | 4068137.00 | 4.12 | 898.80 | -0.70 | 1593.00 |
| 541861.50 | 4068139.40 | 4.00 | 898.90 | -0.77 | 1595.00 |
| 541862.50 | 4068141.80 | 4.41 | 899.00 | -1.86 | 1597.00 |
| 541863.10 | 4068144.10 | 4.49 | 899.10 | -1.54 | 1599.00 |
| 541863.50 | 4068146.40 | 5.16 | 899.10 | -1.37 | 1601.00 |
| 541864.40 | 4068148.70 | 4.99 | 899.20 | -1.31 | 1603.00 |
| 541865.40 | 4068151.00 | 5.09 | 899.40 | -1.60 | 1605.00 |
| 541866.00 | 4068153.50 | 4.88 | 899.30 | -1.89 | 1607.00 |
| 541866.30 | 4068156.00 | 5.41 | 899.40 | -1.61 | 1609.00 |
| 541867.30 | 4068158.40 | 5.26 | 899.40 | -1.46 | 1611.00 |
| 541868.10 | 4068161.00 | 5.59 | 899.40 | -0.89 | 1613.00 |
| 541868.60 | 4068163.50 | 5.20 | 899.50 | -1.83 | 1615.00 |
| 541869.40 | 4068165.90 | 5.38 | 899.70 | -1.38 | 1617.00 |
| 541870.00 | 4068168.30 | 4.59 | 899.60 | -1.55 | 1619.00 |
| 541870.20 | 4068170.70 | 5.21 | 899.70 | -1.45 | 1621.00 |

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| 541870.60 | 4068173.10 | 4.77 | 899.80 | -1.37 | 1623.00 |
| 541871.00 | 4068175.60 | 5.16 | 899.80 | -1.79 | 1625.00 |
| 541871.50 | 4068178.10 | 4.02 | 899.80 | -1.83 | 1627.00 |
| 541871.90 | 4068180.50 | 4.54 | 899.80 | -1.71 | 1629.00 |
| 541872.00 | 4068183.00 | 5.13 | 899.80 | -1.62 | 1631.00 |
| 541872.30 | 4068185.30 | 4.39 | 899.80 | -1.41 | 1633.00 |
| 541872.30 | 4068187.80 | 4.48 | 899.90 | -1.60 | 1635.00 |
| 541873.20 | 4068190.20 | 4.02 | 899.80 | -1.80 | 1637.00 |
| 541873.50 | 4068192.80 | 3.96 | 899.80 | -1.84 | 1639.00 |
| 541873.90 | 4068195.40 | 4.25 | 899.80 | -1.76 | 1641.00 |
| 541874.60 | 4068197.90 | 5.12 | 899.80 | -1.77 | 1643.00 |
| 541875.30 | 4068200.10 | 6.03 | 899.90 | -0.91 | 1645.00 |
| 541875.90 | 4068202.40 | 6.85 | 899.70 | -1.63 | 1647.00 |
| 541876.70 | 4068204.70 | 7.97 | 899.70 | -3.22 | 1649.00 |
| 541876.60 | 4068207.10 | 7.78 | 899.90 | -2.83 | 1651.00 |
| 541877.30 | 4068209.40 | 7.00 | 900.10 | -1.70 | 1653.00 |
| 541877.60 | 4068211.50 | 7.49 | 900.10 | -1.61 | 1655.00 |
| 541877.70 | 4068213.80 | 6.60 | 900.20 | -1.99 | 1657.00 |
| 541876.80 | 4068215.80 | 6.70 | 900.20 | -2.06 | 1659.00 |
| 541876.70 | 4068218.00 | 6.44 | 900.10 | -1.75 | 1661.00 |
| 541877.10 | 4068220.40 | 5.95 | 900.20 | -1.79 | 1663.00 |
| 541877.00 | 4068222.80 | 5.62 | 900.10 | -2.19 | 1665.00 |
| 541877.10 | 4068225.20 | 5.61 | 900.10 | -2.58 | 1667.00 |
| 541878.10 | 4068227.50 | 5.99 | 900.20 | -3.00 | 1669.00 |
| 541878.30 | 4068229.90 | 5.30 | 900.10 | -2.77 | 1671.00 |
| 541878.30 | 4068232.30 | 6.01 | 900.20 | -1.86 | 1673.00 |
| 541879.30 | 4068234.50 | 5.79 | 900.30 | -1.67 | 1675.00 |
| 541879.40 | 4068236.90 | 6.34 | 900.30 | -1.62 | 1677.00 |
| 541879.70 | 4068239.40 | 6.97 | 900.40 | -2.61 | 1679.00 |
| 541880.00 | 4068241.80 | 8.58 | 900.40 | -2.97 | 1681.00 |
| 541880.00 | 4068244.20 | 7.53 | 900.40 | -2.59 | 1683.00 |
| 541880.60 | 4068246.50 | 8.31 | 900.50 | -2.38 | 1685.00 |
| 541881.20 | 4068248.90 | 8.69 | 900.50 | -2.58 | 1687.00 |
| 541881.70 | 4068251.30 | 9.19 | 900.70 | -2.11 | 1689.00 |
| 541882.40 | 4068253.80 | 8.79 | 900.70 | -1.69 | 1691.00 |
| 541883.30 | 4068256.00 | 7.58 | 900.80 | -1.81 | 1693.00 |
| 541883.80 | 4068258.30 | 7.59 | 900.80 | -2.34 | 1695.00 |
| 541884.20 | 4068260.70 | 7.86 | 900.90 | -2.52 | 1697.00 |
| 541884.20 | 4068263.00 | 8.17 | 901.00 | -2.65 | 1699.00 |
| 541885.00 | 4068265.40 | 7.03 | 901.10 | -2.85 | 1701.00 |
| 541884.80 | 4068267.80 | 6.50 | 901.10 | -2.23 | 1703.00 |
| 541884.60 | 4068270.10 | 6.78 | 901.20 | -2.13 | 1705.00 |
| 541884.60 | 4068272.60 | 7.07 | 901.30 | -2.27 | 1707.00 |
| 541884.00 | 4068275.10 | 7.32 | 901.20 | -1.96 | 1709.00 |
| 541883.70 | 4068277.50 | 6.20 | 901.20 | -3.27 | 1711.00 |
| 541884.00 | 4068280.00 | 7.76 | 901.20 | -2.81 | 1713.00 |
| 541883.60 | 4068282.60 | 8.07 | 901.20 | -2.26 | 1715.00 |
| 541883.70 | 4068285.10 | 7.02 | 901.10 | -2.77 | 1717.00 |
| 541883.80 | 4068287.60 | 7.53 | 901.10 | -2.63 | 1719.00 |
| 541884.30 | 4068289.80 | 8.41 | 901.10 | -2.98 | 1721.00 |
| 541884.00 | 4068292.30 | 7.78 | 901.30 | -2.70 | 1723.00 |
| 541883.70 | 4068294.50 | 6.68 | 901.40 | -3.07 | 1725.00 |
| 541883.90 | 4068297.30 | 6.70 | 901.50 | -3.28 | 1727.00 |
| 541884.20 | 4068299.80 | 7.03 | 901.50 | -3.26 | 1729.00 |
| 541884.40 | 4068302.30 | 6.64 | 901.70 | -3.35 | 1731.00 |
| 541884.60 | 4068304.80 | 6.65 | 901.60 | -3.19 | 1733.00 |
| 541885.10 | 4068307.10 | 6.98 | 901.80 | -3.10 | 1735.00 |

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| 541885.70 | 4068309.50 | 6.12 | 901.80 | -3.34 | 1737.00 |
| 541886.00 | 4068312.00 | 6.89 | 901.90 | -2.97 | 1739.00 |
| 541886.20 | 4068314.60 | 7.44 | 901.90 | -2.84 | 1741.00 |
| 541886.70 | 4068317.10 | 6.79 | 901.90 | -2.81 | 1743.00 |
| 541886.90 | 4068319.60 | 6.30 | 902.00 | -2.84 | 1745.00 |
| 541887.80 | 4068322.00 | 5.58 | 902.10 | -3.31 | 1747.00 |
| 541888.70 | 4068324.40 | 8.34 | 902.10 | -3.25 | 1749.00 |
| 541888.50 | 4068326.70 | 8.68 | 902.10 | -2.97 | 1751.00 |
| 541888.30 | 4068329.20 | 8.15 | 902.00 | -2.74 | 1753.00 |
| 541888.30 | 4068331.50 | 7.62 | 902.20 | -3.09 | 1755.00 |
| 541888.80 | 4068333.90 | 7.33 | 902.20 | -2.80 | 1757.00 |
| 541889.00 | 4068336.20 | 6.83 | 902.40 | -2.84 | 1759.00 |
| 541889.50 | 4068338.60 | 6.81 | 902.40 | -3.09 | 1761.00 |
| 541890.10 | 4068340.70 | 6.64 | 902.50 | -3.21 | 1763.00 |
| 541890.80 | 4068343.10 | 5.91 | 902.40 | -3.22 | 1765.00 |
| 541891.40 | 4068345.50 | 5.90 | 902.60 | -3.08 | 1767.00 |
| 541891.90 | 4068347.80 | 5.93 | 902.50 | -2.95 | 1769.00 |
| 541892.10 | 4068350.30 | 6.42 | 902.50 | -3.04 | 1771.00 |
| 541892.90 | 4068352.70 | 6.52 | 902.60 | -3.14 | 1773.00 |
| 541892.90 | 4068355.20 | 7.46 | 902.50 | -3.09 | 1775.00 |
| 541892.90 | 4068357.70 | 8.45 | 902.40 | -2.68 | 1777.00 |
| 541892.20 | 4068360.20 | 8.28 | 902.30 | -2.95 | 1779.00 |
| 541892.00 | 4068362.80 | 7.86 | 902.10 | -2.81 | 1781.00 |
| 541892.00 | 4068365.50 | 8.32 | 902.20 | -2.81 | 1783.00 |
| 541892.30 | 4068368.10 | 8.13 | 902.10 | -3.04 | 1785.00 |
| 541892.20 | 4068370.60 | 7.98 | 902.00 | -2.88 | 1787.00 |
| 541892.20 | 4068373.20 | 7.55 | 901.80 | -2.89 | 1789.00 |
| 541893.40 | 4068375.10 | 6.80 | 901.90 | -2.23 | 1791.00 |
| 541893.40 | 4068377.60 | 7.08 | 902.00 | -2.37 | 1793.00 |
| 541893.10 | 4068379.90 | 6.63 | 902.00 | -2.40 | 1795.00 |
| 541893.30 | 4068382.20 | 6.45 | 902.00 | -2.17 | 1797.00 |
| 541893.60 | 4068384.20 | 7.13 | 901.90 | -3.23 | 1799.00 |
| 541893.30 | 4068386.60 | 6.93 | 901.80 | -2.44 | 1801.00 |
| 541893.50 | 4068388.80 | 7.84 | 901.80 | -1.56 | 1803.00 |
| 541894.10 | 4068390.70 | 7.75 | 901.70 | -2.51 | 1805.00 |
| 541893.50 | 4068392.80 | 8.93 | 901.20 | -3.31 | 1807.00 |
| 541893.40 | 4068394.90 | 10.39 | 901.00 | -2.86 | 1809.00 |
| 541893.80 | 4068397.20 | 10.51 | 901.00 | -3.44 | 1811.00 |
| 541893.90 | 4068399.40 | 10.11 | 901.00 | -3.71 | 1813.00 |
| 541894.20 | 4068401.40 | 10.20 | 900.70 | -3.88 | 1815.00 |
| 541894.80 | 4068403.30 | 11.28 | 901.20 | -4.22 | 1817.00 |
| 541896.00 | 4068404.70 | 11.02 | 901.20 | -3.72 | 1819.00 |
| 541896.20 | 4068406.40 | 11.06 | 901.70 | -3.53 | 1821.00 |
| 541896.10 | 4068407.40 | 10.13 | 902.10 | -3.48 | 1823.00 |
| 541895.60 | 4068408.10 | 8.86 | 902.50 | -3.59 | 1825.00 |
| 541895.60 | 4068409.10 | 7.67 | 903.00 | -3.39 | 1827.00 |
| 541895.80 | 4068410.00 | 6.76 | 903.30 | -3.06 | 1829.00 |
| 541896.20 | 4068411.20 | 6.34 | 903.60 | -2.64 | 1831.00 |
| 541896.30 | 4068412.90 | 5.80 | 904.00 | -2.59 | 1833.00 |
| 541897.10 | 4068414.60 | 5.19 | 904.10 | -2.57 | 1835.00 |
| 541897.30 | 4068416.40 | 5.30 | 904.20 | -2.59 | 1837.00 |
| 541897.30 | 4068418.40 | 6.36 | 904.40 | -2.48 | 1839.00 |
| 541897.00 | 4068420.40 | 5.64 | 904.40 | -2.46 | 1841.00 |
| 541895.90 | 4068422.50 | 5.92 | 904.40 | -2.34 | 1843.00 |
| 541895.00 | 4068424.60 | 5.78 | 904.50 | -2.36 | 1845.00 |
| 541894.30 | 4068427.00 | 5.90 | 904.50 | -2.25 | 1847.00 |
| 541893.90 | 4068429.50 | 6.14 | 904.60 | -2.32 | 1849.00 |

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| 541893.30 | 4068431.90 | 6.32 | 904.60 | -2.28 | 1851.00 |
| 541892.80 | 4068434.30 | 5.97 | 904.60 | -2.40 | 1853.00 |
| 541892.50 | 4068436.80 | 4.84 | 904.70 | -2.34 | 1855.00 |
| 541892.10 | 4068439.10 | 3.88 | 904.60 | -2.39 | 1857.00 |
| 541891.80 | 4068441.20 | 5.50 | 904.50 | -2.52 | 1859.00 |
| 541892.20 | 4068443.40 | 5.35 | 904.50 | -3.51 | 1861.00 |
| 541890.90 | 4068445.70 | 5.94 | 904.20 | -2.36 | 1863.00 |
| 541889.60 | 4068447.70 | 5.14 | 904.40 | -2.34 | 1865.00 |
| 541888.30 | 4068449.60 | 5.04 | 904.70 | -2.46 | 1867.00 |
| 541887.20 | 4068451.90 | 5.07 | 904.80 | -2.41 | 1869.00 |
| 541886.40 | 4068454.20 | 5.90 | 905.00 | -2.45 | 1871.00 |
| 541885.80 | 4068456.60 | 6.22 | 905.00 | -2.48 | 1873.00 |
| 541885.50 | 4068459.10 | 6.02 | 905.10 | -2.49 | 1875.00 |
| 541885.60 | 4068461.60 | 6.42 | 905.10 | -2.39 | 1877.00 |
| 541885.80 | 4068464.20 | 6.10 | 905.20 | -2.45 | 1879.00 |
| 541885.70 | 4068466.90 | 5.47 | 905.20 | -2.49 | 1881.00 |
| 541885.30 | 4068469.40 | 5.09 | 905.20 | -2.44 | 1883.00 |
| 541885.00 | 4068471.70 | 5.52 | 905.20 | -2.34 | 1885.00 |
| 541884.90 | 4068474.20 | 5.52 | 905.10 | -2.36 | 1887.00 |
| 541885.10 | 4068476.60 | 5.06 | 905.20 | -2.38 | 1889.00 |
| 541885.60 | 4068479.00 | 5.24 | 905.30 | -2.47 | 1891.00 |
| 541885.80 | 4068481.40 | 5.33 | 905.20 | -2.62 | 1893.00 |
| 541885.10 | 4068483.90 | 5.52 | 905.20 | -2.35 | 1895.00 |
| 541885.10 | 4068486.40 | 5.84 | 905.30 | -2.50 | 1897.00 |
| 541884.00 | 4068488.60 | 5.68 | 905.40 | -2.42 | 1899.00 |
| 541883.00 | 4068490.50 | 5.10 | 905.70 | -2.46 | 1901.00 |
| 541882.70 | 4068492.90 | 5.06 | 905.80 | -2.38 | 1903.00 |
| 541881.90 | 4068495.30 | 4.75 | 905.90 | -2.48 | 1905.00 |
| 541881.50 | 4068497.60 | 5.47 | 906.00 | -2.16 | 1907.00 |
| 541881.00 | 4068499.90 | 5.34 | 906.00 | -2.19 | 1909.00 |
| 541880.10 | 4068502.40 | 5.03 | 906.10 | -2.27 | 1911.00 |
| 541879.30 | 4068504.70 | 5.62 | 906.10 | -2.38 | 1913.00 |
| 541878.80 | 4068507.20 | 5.61 | 906.20 | -2.34 | 1915.00 |
| 541879.10 | 4068509.80 | 5.12 | 906.20 | -2.29 | 1917.00 |
| 541878.80 | 4068512.40 | 4.31 | 906.30 | -2.30 | 1919.00 |
| 541878.20 | 4068514.80 | 4.83 | 906.40 | -2.28 | 1921.00 |
| 541877.90 | 4068517.00 | 4.63 | 906.40 | -2.22 | 1923.00 |
| 541877.80 | 4068519.50 | 4.61 | 906.50 | -2.31 | 1925.00 |
| 541877.30 | 4068522.00 | 4.39 | 906.50 | -2.35 | 1927.00 |
| 541876.60 | 4068524.70 | 4.44 | 906.50 | -2.27 | 1929.00 |
| 541876.40 | 4068527.20 | 3.96 | 906.50 | -2.24 | 1931.00 |
| 541875.70 | 4068529.70 | 4.42 | 906.40 | -2.21 | 1933.00 |
| 541875.10 | 4068532.10 | 4.23 | 906.40 | -2.37 | 1935.00 |
| 541875.00 | 4068534.70 | 4.61 | 906.30 | -2.28 | 1937.00 |
| 541874.80 | 4068537.20 | 4.64 | 906.30 | -2.16 | 1939.00 |
| 541874.20 | 4068539.60 | 4.86 | 906.30 | -2.10 | 1941.00 |
| 541873.50 | 4068541.80 | 5.17 | 906.30 | -2.07 | 1943.00 |
| 541874.00 | 4068544.30 | 4.47 | 906.30 | -1.98 | 1945.00 |
| 541873.20 | 4068546.60 | 4.15 | 906.40 | -1.98 | 1947.00 |
| 541872.60 | 4068549.10 | 4.44 | 906.40 | -1.98 | 1949.00 |
| 541871.80 | 4068551.40 | 4.69 | 906.20 | -1.86 | 1951.00 |
| 541871.80 | 4068553.90 | 3.85 | 906.30 | -1.94 | 1953.00 |
| 541871.20 | 4068556.40 | 3.87 | 906.30 | -1.82 | 1955.00 |
| 541871.10 | 4068558.80 | 3.83 | 906.40 | -1.95 | 1957.00 |
| 541871.00 | 4068561.20 | 3.63 | 906.40 | -2.01 | 1959.00 |
| 541871.40 | 4068563.80 | 3.46 | 906.30 | -1.90 | 1961.00 |
| 541871.80 | 4068566.30 | 2.80 | 906.20 | -1.84 | 1963.00 |

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| 541871.80 | 4068568.80 | 3.85 | 906.20 | -1.85 | 1965.00 |
| 541871.80 | 4068571.30 | 4.05 | 906.00 | -1.99 | 1967.00 |
| 541871.80 | 4068573.90 | 3.85 | 906.00 | -1.87 | 1969.00 |
| 541871.70 | 4068576.20 | 3.38 | 906.20 | -2.07 | 1971.00 |
| 541871.40 | 4068578.70 | 3.07 | 906.40 | -2.06 | 1973.00 |
| 541871.50 | 4068580.90 | 2.40 | 906.50 | -2.04 | 1975.00 |
| 541871.80 | 4068583.20 | 2.49 | 906.50 | -1.97 | 1977.00 |
| 541871.60 | 4068585.50 | 2.44 | 906.50 | -1.90 | 1979.00 |
| 541871.20 | 4068587.90 | 2.32 | 906.50 | -1.93 | 1981.00 |
| 541870.70 | 4068590.10 | 1.91 | 906.60 | -2.24 | 1983.00 |
| 541870.20 | 4068592.20 | 1.91 | 906.60 | -2.15 | 1985.00 |
| 541869.80 | 4068594.40 | 1.88 | 906.70 | -2.13 | 1987.00 |
| 541869.60 | 4068596.70 | 1.66 | 906.70 | -1.97 | 1989.00 |
| 541868.90 | 4068599.00 | 1.62 | 906.80 | -1.98 | 1991.00 |
| 541868.30 | 4068601.30 | 1.47 | 906.90 | -1.98 | 1993.00 |
| 541868.80 | 4068603.70 | 1.57 | 906.90 | -1.91 | 1995.00 |
| 541869.10 | 4068606.00 | 1.51 | 907.00 | -1.91 | 1997.00 |
| 541869.30 | 4068608.30 | 1.55 | 907.00 | -1.96 | 1999.00 |
| 541868.90 | 4068610.70 | 1.72 | 907.00 | -1.98 | 2001.00 |
| 541868.90 | 4068613.10 | 1.50 | 907.10 | -1.91 | 2003.00 |
| 541868.90 | 4068615.50 | 1.47 | 907.10 | -1.84 | 2005.00 |
| 541869.00 | 4068617.80 | 1.64 | 907.20 | -1.98 | 2007.00 |
| 541869.40 | 4068620.10 | 1.50 | 907.30 | -1.90 | 2009.00 |
| 541869.60 | 4068622.30 | 1.42 | 907.30 | -2.05 | 2011.00 |
| 541869.50 | 4068624.40 | 1.94 | 906.90 | -1.68 | 2013.00 |
| 541869.70 | 4068626.80 | 1.84 | 907.00 | -1.98 | 2015.00 |
| 541869.50 | 4068629.00 | 1.74 | 906.80 | -2.06 | 2017.00 |
| 541869.80 | 4068631.60 | 2.09 | 907.10 | -2.07 | 2019.00 |
| 541870.20 | 4068633.30 | 2.06 | 907.60 | -2.11 | 2021.00 |
| 541870.60 | 4068634.90 | 1.67 | 907.90 | -2.02 | 2023.00 |
| 541871.20 | 4068636.80 | 1.61 | 908.00 | -1.97 | 2025.00 |
| 541871.50 | 4068638.60 | 1.58 | 908.10 | -2.05 | 2027.00 |
| 541871.90 | 4068640.50 | 1.47 | 908.20 | -1.94 | 2029.00 |
| 541872.90 | 4068642.60 | 1.56 | 908.30 | -1.99 | 2031.00 |
| 541872.80 | 4068644.90 | 1.66 | 908.20 | -1.96 | 2033.00 |
| 541872.50 | 4068647.30 | 1.62 | 908.20 | -2.02 | 2035.00 |
| 541872.20 | 4068649.60 | 1.67 | 908.30 | -1.95 | 2037.00 |
| 541872.20 | 4068651.90 | 1.74 | 908.30 | -1.81 | 2039.00 |
| 541871.90 | 4068654.30 | 1.75 | 908.20 | -1.93 | 2041.00 |
| 541871.40 | 4068656.60 | 1.88 | 908.20 | -2.01 | 2043.00 |
| 541871.00 | 4068659.10 | 1.62 | 908.30 | -1.88 | 2045.00 |
| 541870.80 | 4068661.80 | 1.78 | 908.20 | -1.92 | 2047.00 |
| 541870.30 | 4068664.40 | 1.94 | 908.20 | -1.98 | 2049.00 |
| 541870.20 | 4068666.90 | 1.71 | 908.30 | -1.81 | 2051.00 |
| 541870.00 | 4068669.40 | 1.80 | 908.40 | -1.89 | 2053.00 |
| 541869.80 | 4068671.90 | 1.96 | 908.50 | -1.98 | 2055.00 |
| 541869.60 | 4068674.30 | 1.99 | 908.80 | -1.89 | 2057.00 |
| 541869.40 | 4068676.70 | 1.75 | 908.90 | -1.91 | 2059.00 |
| 541869.10 | 4068678.90 | 2.03 | 909.00 | -1.86 | 2061.00 |
| 541868.90 | 4068681.30 | 2.13 | 909.10 | -1.86 | 2063.00 |
| 541868.30 | 4068683.50 | 1.97 | 909.20 | -1.85 | 2065.00 |
| 541868.00 | 4068685.80 | 1.87 | 909.40 | -1.89 | 2067.00 |
| 541868.10 | 4068687.90 | 1.97 | 909.40 | -1.87 | 2069.00 |
| 541868.90 | 4068690.10 | 1.96 | 909.40 | -1.92 | 2071.00 |
| 541868.80 | 4068692.40 | 1.89 | 909.60 | -1.81 | 2073.00 |
| 541868.60 | 4068694.80 | 1.73 | 909.70 | -1.97 | 2075.00 |
| 541868.80 | 4068697.30 | 1.67 | 909.70 | -1.99 | 2077.00 |

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| 541869.10 | 4068699.90 | 1.68 | 909.70 | -1.86 | 2079.00 |
| 541869.20 | 4068702.50 | 1.64 | 909.70 | -1.94 | 2081.00 |
| 541869.80 | 4068704.80 | 1.80 | 909.90 | -1.81 | 2083.00 |
| 541869.40 | 4068707.10 | 1.61 | 909.90 | -1.86 | 2085.00 |
| 541869.10 | 4068709.60 | 1.65 | 910.00 | -1.97 | 2087.00 |
| 541869.30 | 4068712.10 | 1.72 | 910.10 | -1.90 | 2089.00 |
| 541868.50 | 4068714.50 | 1.38 | 910.10 | -1.86 | 2091.00 |
| 541867.60 | 4068716.80 | 1.66 | 910.20 | -1.94 | 2093.00 |
| 541867.30 | 4068719.20 | 1.54 | 910.30 | -1.89 | 2095.00 |
| 541867.40 | 4068721.70 | 1.66 | 910.40 | -2.11 | 2097.00 |
| 541867.70 | 4068724.20 | 1.57 | 910.50 | -2.09 | 2099.00 |
| 541868.10 | 4068726.70 | 1.55 | 910.60 | -2.00 | 2101.00 |
| 541868.00 | 4068729.10 | 1.64 | 910.60 | -1.98 | 2103.00 |
| 541867.90 | 4068731.40 | 1.94 | 910.70 | -2.04 | 2105.00 |
| 541867.80 | 4068734.00 | 1.69 | 910.80 | -1.99 | 2107.00 |
| 541867.50 | 4068736.50 | 1.86 | 910.70 | -2.09 | 2109.00 |
| 541867.60 | 4068738.90 | 1.78 | 910.80 | -1.92 | 2111.00 |
| 541867.60 | 4068741.30 | 1.70 | 910.90 | -1.97 | 2113.00 |
| 541867.90 | 4068743.50 | 1.86 | 910.90 | -1.89 | 2115.00 |
| 541867.00 | 4068745.60 | 1.83 | 911.00 | -1.98 | 2117.00 |
| 541866.80 | 4068747.80 | 1.83 | 910.90 | -1.97 | 2119.00 |
| 541867.30 | 4068749.80 | 1.96 | 911.00 | -1.89 | 2121.00 |
| 541867.70 | 4068751.90 | 1.32 | 911.00 | -1.79 | 2123.00 |
| 541867.80 | 4068753.60 | 2.07 | 911.00 | -1.87 | 2125.00 |
| 541867.60 | 4068755.40 | 2.01 | 911.10 | -1.98 | 2127.00 |
| 541867.40 | 4068757.40 | 2.06 | 911.10 | -1.84 | 2129.00 |
| 541867.20 | 4068759.50 | 1.86 | 911.10 | -2.02 | 2131.00 |
| 541867.40 | 4068761.60 | 1.94 | 911.10 | -2.02 | 2133.00 |
| 541868.40 | 4068763.60 | 1.89 | 911.20 | -1.92 | 2135.00 |
| 541868.60 | 4068765.80 | 1.81 | 911.30 | -2.04 | 2137.00 |
| 541868.20 | 4068768.00 | 2.29 | 911.10 | -1.71 | 2139.00 |
| 541867.90 | 4068770.00 | 1.78 | 911.20 | -1.90 | 2141.00 |
| 541868.20 | 4068771.90 | 2.08 | 911.30 | -1.77 | 2143.00 |
| 541868.80 | 4068773.20 | 2.09 | 911.40 | -1.92 | 2145.00 |
| 541868.70 | 4068774.50 | 2.09 | 911.10 | -1.66 | 2147.00 |
| 541868.90 | 4068776.30 | 2.66 | 911.00 | -1.99 | 2149.00 |
| 541870.80 | 4068776.80 | 2.23 | 911.10 | -1.84 | 2376.00 |
| 541871.10 | 4068776.90 | 2.00 | 911.10 | -1.99 | 2378.00 |
| 541872.20 | 4068776.90 | 1.67 | 911.10 | -2.30 | 2380.00 |
| 541873.20 | 4068776.30 | 1.97 | 911.40 | -2.36 | 2382.00 |
| 541874.70 | 4068775.80 | 1.59 | 911.50 | -2.24 | 2384.00 |
| 541876.60 | 4068774.80 | 1.77 | 911.60 | -2.33 | 2386.00 |
| 541878.50 | 4068774.00 | 1.75 | 911.70 | -2.79 | 2388.00 |
| 541880.70 | 4068774.30 | 1.85 | 911.80 | -2.19 | 2390.00 |
| 541882.90 | 4068774.10 | 1.75 | 911.90 | -2.29 | 2392.00 |
| 541885.10 | 4068773.10 | 1.66 | 911.90 | -2.15 | 2394.00 |
| 541887.50 | 4068772.80 | 1.20 | 911.90 | -2.23 | 2396.00 |
| 541889.70 | 4068771.90 | 1.49 | 911.90 | -2.19 | 2398.00 |
| 541891.90 | 4068771.40 | 1.34 | 911.90 | -2.07 | 2400.00 |
| 541894.20 | 4068770.90 | 1.40 | 911.90 | -2.22 | 2402.00 |
| 541896.40 | 4068770.50 | 1.61 | 911.90 | -2.01 | 2404.00 |
| 541898.80 | 4068770.70 | 1.56 | 912.00 | -2.03 | 2406.00 |
| 541900.80 | 4068771.70 | 1.58 | 912.00 | -2.12 | 2408.00 |
| 541902.70 | 4068772.80 | 1.12 | 912.00 | -1.97 | 2410.00 |
| 541904.30 | 4068774.50 | 1.52 | 912.10 | -1.97 | 2412.00 |
| 541906.30 | 4068775.60 | 1.64 | 912.20 | -2.03 | 2414.00 |
| 541908.30 | 4068776.80 | 1.39 | 912.20 | -2.21 | 2416.00 |

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| 541910.60 | 4068777.10 | 1.64 | 912.20 | -2.01 | 2418.00 |
| 541912.80 | 4068776.90 | 1.60 | 912.10 | -2.04 | 2420.00 |
| 541915.10 | 4068775.80 | 1.49 | 912.00 | -2.10 | 2422.00 |
| 541917.60 | 4068775.50 | 1.74 | 912.00 | -2.16 | 2424.00 |
| 541920.20 | 4068775.90 | 2.17 | 912.10 | -2.06 | 2426.00 |
| 541922.50 | 4068776.40 | 2.09 | 912.30 | -2.01 | 2428.00 |
| 541924.60 | 4068776.80 | 1.49 | 912.30 | -2.15 | 2430.00 |
| 541926.80 | 4068776.90 | 1.61 | 912.40 | -2.10 | 2432.00 |
| 541929.20 | 4068776.50 | 1.76 | 912.40 | -2.07 | 2434.00 |
| 541931.70 | 4068776.30 | 1.50 | 912.50 | -2.12 | 2436.00 |
| 541934.00 | 4068776.00 | 1.45 | 912.50 | -2.05 | 2438.00 |
| 541936.50 | 4068775.70 | 1.47 | 912.40 | -2.11 | 2440.00 |
| 541938.90 | 4068775.50 | 1.30 | 912.40 | -2.03 | 2442.00 |
| 541941.10 | 4068775.50 | 1.39 | 912.50 | -1.99 | 2444.00 |
| 541943.30 | 4068775.50 | 1.46 | 912.50 | -2.26 | 2446.00 |
| 541945.40 | 4068775.20 | 1.26 | 912.40 | -2.23 | 2448.00 |
| 541947.90 | 4068775.50 | 2.03 | 912.00 | -2.09 | 2450.00 |
| 541950.40 | 4068775.30 | 1.72 | 912.00 | -2.06 | 2452.00 |
| 541952.70 | 4068775.30 | 1.76 | 911.90 | -2.08 | 2454.00 |
| 541955.10 | 4068775.20 | 1.90 | 911.90 | -1.99 | 2456.00 |
| 541957.30 | 4068775.00 | 1.61 | 912.10 | -2.07 | 2458.00 |
| 541959.60 | 4068775.20 | 2.37 | 912.20 | -2.02 | 2460.00 |
| 541961.80 | 4068775.60 | 2.85 | 912.30 | -2.11 | 2462.00 |
| 541964.20 | 4068775.40 | 3.05 | 912.40 | -2.01 | 2464.00 |
| 541966.50 | 4068775.30 | 3.70 | 912.60 | -2.07 | 2466.00 |
| 541968.50 | 4068775.90 | 3.30 | 912.80 | -2.05 | 2468.00 |
| 541970.70 | 4068776.20 | 3.48 | 913.20 | -2.07 | 2470.00 |
| 541973.10 | 4068776.00 | 4.27 | 913.20 | -2.24 | 2472.00 |
| 541975.60 | 4068775.60 | 4.36 | 913.40 | -2.12 | 2474.00 |
| 541978.00 | 4068775.90 | 4.77 | 913.40 | -2.29 | 2476.00 |
| 541980.30 | 4068776.40 | 4.72 | 913.40 | -2.18 | 2478.00 |
| 541982.60 | 4068776.50 | 5.43 | 913.50 | -2.26 | 2480.00 |
| 541984.70 | 4068776.80 | 5.66 | 913.60 | -2.20 | 2482.00 |
| 541987.00 | 4068776.80 | 5.93 | 913.50 | -2.28 | 2484.00 |
| 541989.40 | 4068777.00 | 5.96 | 913.50 | -2.37 | 2486.00 |
| 541991.70 | 4068777.10 | 6.06 | 913.40 | -2.42 | 2488.00 |
| 541993.80 | 4068776.70 | 5.79 | 913.30 | -2.44 | 2490.00 |
| 541995.90 | 4068776.80 | 5.94 | 913.30 | -2.62 | 2492.00 |
| 541997.50 | 4068776.50 | 6.42 | 913.10 | -2.88 | 2494.00 |
| 541999.10 | 4068776.20 | 7.65 | 912.80 | -2.90 | 2496.00 |
| 542002.10 | 4068775.30 | 8.63 | 912.20 | -2.44 | 2508.00 |
| 542002.20 | 4068774.30 | 8.49 | 912.20 | -2.45 | 2510.00 |
| 542001.50 | 4068772.90 | 7.54 | 912.20 | -2.34 | 2512.00 |
| 542001.60 | 4068770.80 | 7.18 | 912.20 | -2.42 | 2514.00 |
| 542002.30 | 4068768.40 | 7.56 | 912.10 | -2.54 | 2516.00 |
| 542002.70 | 4068766.60 | 7.55 | 912.50 | -2.88 | 2518.00 |
| 542002.60 | 4068764.80 | 6.66 | 912.70 | -2.63 | 2520.00 |
| 542001.80 | 4068762.90 | 5.91 | 912.80 | -2.48 | 2522.00 |
| 542001.40 | 4068760.90 | 6.03 | 913.00 | -2.43 | 2524.00 |
| 542001.20 | 4068758.80 | 6.69 | 913.00 | -2.35 | 2526.00 |
| 542000.80 | 4068756.60 | 6.63 | 913.10 | -2.48 | 2528.00 |
| 542001.10 | 4068754.30 | 6.62 | 913.10 | -2.39 | 2530.00 |
| 542001.00 | 4068751.90 | 5.91 | 913.10 | -2.38 | 2532.00 |
| 542000.60 | 4068749.40 | 6.10 | 913.10 | -2.40 | 2534.00 |
| 542000.40 | 4068746.90 | 6.20 | 913.20 | -2.31 | 2536.00 |
| 542000.20 | 4068744.50 | 6.29 | 913.10 | -2.24 | 2538.00 |
| 542000.10 | 4068742.10 | 6.21 | 913.10 | -2.22 | 2540.00 |

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| 542000.30 | 4068739.60 | 6.09 | 913.20 | -2.26 | 2542.00 |
| 542001.00 | 4068737.20 | 5.79 | 913.10 | -2.28 | 2544.00 |
| 542000.90 | 4068734.60 | 5.16 | 913.00 | -2.35 | 2546.00 |
| 542000.70 | 4068732.10 | 6.42 | 913.00 | -2.25 | 2548.00 |
| 542000.10 | 4068729.90 | 6.09 | 913.00 | -2.27 | 2550.00 |
| 541999.70 | 4068727.40 | 5.57 | 912.90 | -2.29 | 2552.00 |
| 542000.00 | 4068724.70 | 5.91 | 912.90 | -2.19 | 2554.00 |
| 542001.20 | 4068722.60 | 6.15 | 912.90 | -2.20 | 2556.00 |
| 542000.80 | 4068720.00 | 6.68 | 912.80 | -2.19 | 2558.00 |
| 541999.70 | 4068717.50 | 6.17 | 912.70 | -2.22 | 2560.00 |
| 542000.20 | 4068715.00 | 7.24 | 912.70 | -2.22 | 2562.00 |
| 541999.60 | 4068712.50 | 7.58 | 912.50 | -2.18 | 2564.00 |
| 541999.60 | 4068709.90 | 6.23 | 912.50 | -2.19 | 2566.00 |
| 542000.30 | 4068707.20 | 7.74 | 912.50 | -2.25 | 2568.00 |
| 542000.80 | 4068704.90 | 7.87 | 912.50 | -2.19 | 2570.00 |
| 542000.60 | 4068702.50 | 7.41 | 912.40 | -2.21 | 2572.00 |
| 542001.10 | 4068699.90 | 7.87 | 912.30 | -2.27 | 2574.00 |
| 542001.30 | 4068697.40 | 7.40 | 912.20 | -2.25 | 2576.00 |
| 542000.20 | 4068695.20 | 7.15 | 912.10 | -2.23 | 2578.00 |
| 541999.90 | 4068692.50 | 7.02 | 912.00 | -2.31 | 2580.00 |
| 541999.50 | 4068690.10 | 7.13 | 912.00 | -2.34 | 2582.00 |
| 541999.00 | 4068687.50 | 7.58 | 911.90 | -2.28 | 2584.00 |
| 541998.90 | 4068684.80 | 7.34 | 911.80 | -2.26 | 2586.00 |
| 541998.60 | 4068682.10 | 7.34 | 911.80 | -2.25 | 2588.00 |
| 541998.10 | 4068679.70 | 7.05 | 911.70 | -2.25 | 2590.00 |
| 541997.60 | 4068677.30 | 7.70 | 911.60 | -2.35 | 2592.00 |
| 541998.00 | 4068674.90 | 7.44 | 911.50 | -2.26 | 2594.00 |
| 541998.90 | 4068672.50 | 7.65 | 911.50 | -2.19 | 2596.00 |
| 541999.40 | 4068670.10 | 8.79 | 911.50 | -2.26 | 2598.00 |
| 542000.10 | 4068667.70 | 8.51 | 911.40 | -2.23 | 2600.00 |
| 542000.40 | 4068665.00 | 9.18 | 911.30 | -2.20 | 2602.00 |
| 542000.30 | 4068662.30 | 10.00 | 911.20 | -2.25 | 2604.00 |
| 542000.20 | 4068659.60 | 9.55 | 911.20 | -2.20 | 2606.00 |
| 542000.20 | 4068657.00 | 9.34 | 911.10 | -2.23 | 2608.00 |
| 541999.90 | 4068654.40 | 9.68 | 911.10 | -2.26 | 2610.00 |
| 541999.80 | 4068651.80 | 8.99 | 911.00 | -2.31 | 2612.00 |
| 541999.60 | 4068649.30 | 8.49 | 911.00 | -2.31 | 2614.00 |
| 541999.10 | 4068646.90 | 7.57 | 910.90 | -2.13 | 2616.00 |
| 541998.60 | 4068644.50 | 9.33 | 910.80 | -2.27 | 2618.00 |
| 541998.70 | 4068642.00 | 7.70 | 910.70 | -2.32 | 2620.00 |
| 541999.60 | 4068639.80 | 7.66 | 910.50 | -2.31 | 2622.00 |
| 541999.20 | 4068637.40 | 8.06 | 910.60 | -2.38 | 2624.00 |
| 541998.60 | 4068635.30 | 7.64 | 910.40 | -2.26 | 2626.00 |
| 541997.90 | 4068632.90 | 8.28 | 910.30 | -2.39 | 2628.00 |
| 541997.50 | 4068630.60 | 8.00 | 910.20 | -2.25 | 2630.00 |
| 541997.00 | 4068628.50 | 7.87 | 910.20 | -2.23 | 2632.00 |
| 541997.70 | 4068626.20 | 8.08 | 910.20 | -2.19 | 2634.00 |
| 541997.70 | 4068624.10 | 7.73 | 910.20 | -2.24 | 2636.00 |
| 541996.60 | 4068621.60 | 8.07 | 910.10 | -2.28 | 2638.00 |
| 541995.90 | 4068619.20 | 8.70 | 910.10 | -2.45 | 2640.00 |
| 541995.50 | 4068616.80 | 7.80 | 910.10 | -2.39 | 2642.00 |
| 541996.30 | 4068614.40 | 7.50 | 910.10 | -2.38 | 2644.00 |
| 541996.60 | 4068611.90 | 8.52 | 910.00 | -2.50 | 2646.00 |
| 541996.70 | 4068609.20 | 10.81 | 910.00 | -2.49 | 2648.00 |
| 541997.40 | 4068606.70 | 8.50 | 910.00 | -2.33 | 2650.00 |
| 541997.70 | 4068604.10 | 7.42 | 910.00 | -2.38 | 2652.00 |
| 541997.70 | 4068601.50 | 9.38 | 909.90 | -2.49 | 2654.00 |

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| 541998.20 | 4068598.70 | 8.85 | 909.80 | -2.42 | 2656.00 |
| 541998.60 | 4068596.10 | 9.36 | 909.70 | -2.50 | 2658.00 |
| 541998.20 | 4068593.40 | 9.22 | 909.70 | -2.43 | 2660.00 |
| 541997.90 | 4068590.60 | 9.13 | 909.60 | -2.46 | 2662.00 |
| 541997.70 | 4068588.00 | 8.74 | 909.60 | -2.52 | 2664.00 |
| 541997.50 | 4068585.40 | 10.88 | 909.60 | -2.44 | 2666.00 |
| 541997.20 | 4068582.90 | 9.67 | 909.60 | -2.51 | 2668.00 |
| 541997.30 | 4068580.30 | 7.44 | 909.50 | -2.41 | 2670.00 |
| 541997.00 | 4068577.80 | 8.12 | 909.40 | -2.38 | 2672.00 |
| 541996.90 | 4068575.20 | 8.70 | 909.30 | -2.37 | 2674.00 |
| 541996.50 | 4068572.60 | 8.57 | 909.30 | -2.40 | 2676.00 |
| 541996.00 | 4068570.00 | 8.46 | 909.30 | -2.37 | 2678.00 |
| 541996.20 | 4068567.40 | 7.71 | 909.30 | -2.24 | 2680.00 |
| 541996.70 | 4068564.90 | 7.67 | 909.20 | -2.35 | 2682.00 |
| 541996.20 | 4068562.40 | 7.41 | 909.10 | -2.24 | 2684.00 |
| 541996.30 | 4068559.80 | 6.99 | 909.10 | -2.35 | 2686.00 |
| 541996.80 | 4068557.60 | 7.50 | 909.00 | -2.36 | 2688.00 |
| 541996.30 | 4068555.10 | 7.83 | 909.00 | -2.34 | 2690.00 |
| 541996.70 | 4068552.60 | 7.26 | 908.90 | -2.43 | 2692.00 |
| 541996.50 | 4068550.00 | 6.93 | 908.80 | -2.31 | 2694.00 |
| 541996.30 | 4068547.30 | 6.39 | 908.80 | -2.35 | 2696.00 |
| 541996.20 | 4068544.70 | 6.48 | 908.70 | -2.25 | 2698.00 |
| 541996.20 | 4068542.20 | 5.95 | 908.70 | -2.41 | 2700.00 |
| 541996.20 | 4068539.80 | 6.29 | 908.60 | -2.34 | 2702.00 |
| 541996.30 | 4068537.20 | 7.25 | 908.50 | -2.28 | 2704.00 |
| 541996.40 | 4068534.60 | 6.16 | 908.50 | -2.27 | 2706.00 |
| 541996.50 | 4068532.00 | 6.76 | 908.40 | -2.31 | 2708.00 |
| 541996.30 | 4068529.50 | 6.73 | 908.40 | -2.31 | 2710.00 |
| 541996.10 | 4068527.10 | 6.00 | 908.40 | -2.56 | 2712.00 |
| 541997.30 | 4068525.30 | 6.46 | 908.40 | -2.69 | 2714.00 |
| 541998.40 | 4068523.30 | 5.99 | 908.30 | -2.68 | 2716.00 |
| 541998.90 | 4068520.70 | 6.03 | 908.20 | -2.72 | 2718.00 |
| 541998.90 | 4068518.40 | 5.53 | 908.20 | -2.75 | 2720.00 |
| 541998.30 | 4068516.00 | 6.38 | 908.10 | -2.79 | 2722.00 |
| 541997.50 | 4068513.60 | 6.23 | 908.00 | -2.84 | 2724.00 |
| 541997.00 | 4068511.10 | 5.50 | 908.00 | -2.72 | 2726.00 |
| 541996.60 | 4068508.60 | 6.45 | 907.80 | -2.61 | 2728.00 |
| 541996.20 | 4068506.20 | 6.59 | 907.80 | -2.56 | 2730.00 |
| 541995.80 | 4068503.90 | 6.38 | 907.70 | -2.65 | 2732.00 |
| 541995.30 | 4068501.70 | 6.29 | 907.70 | -2.65 | 2734.00 |
| 541994.80 | 4068499.20 | 6.50 | 907.60 | -2.67 | 2736.00 |
| 541994.90 | 4068496.80 | 5.98 | 907.40 | -2.75 | 2738.00 |
| 541995.40 | 4068494.30 | 5.52 | 907.20 | -2.71 | 2740.00 |
| 541995.80 | 4068492.30 | 6.20 | 906.90 | -2.63 | 2742.00 |
| 541995.90 | 4068490.60 | 6.40 | 906.60 | -2.84 | 2744.00 |
| 541995.90 | 4068489.00 | 6.75 | 906.40 | -3.07 | 2746.00 |
| 541995.90 | 4068487.30 | 7.72 | 905.90 | -3.13 | 2748.00 |
| 541996.90 | 4068485.20 | 8.83 | 905.20 | -2.25 | 2750.00 |
| 541997.30 | 4068482.90 | 9.21 | 905.10 | -1.36 | 2752.00 |
| 541998.60 | 4068480.80 | 8.77 | 905.20 | -1.35 | 2754.00 |
| 542000.20 | 4068478.80 | 7.70 | 905.30 | -1.57 | 2756.00 |
| 542001.90 | 4068477.80 | 7.33 | 905.50 | -2.20 | 2758.00 |
| 542003.00 | 4068475.50 | 6.68 | 905.50 | -3.48 | 2760.00 |
| 542004.10 | 4068473.50 | 6.69 | 905.50 | -3.43 | 2762.00 |
| 542005.60 | 4068471.70 | 7.11 | 905.50 | -2.96 | 2764.00 |
| 542006.70 | 4068469.80 | 7.66 | 905.70 | -3.15 | 2766.00 |
| 542007.20 | 4068467.80 | 6.78 | 905.80 | -2.32 | 2768.00 |

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| 542007.90 | 4068466.10 | 6.77 | 905.90 | -1.88 | 2770.00 |
| 542008.80 | 4068464.30 | 6.30 | 906.10 | -1.61 | 2772.00 |
| 542008.90 | 4068462.00 | 5.04 | 906.30 | -1.96 | 2774.00 |
| 542008.30 | 4068460.10 | 3.96 | 906.60 | -1.53 | 2776.00 |
| 542008.10 | 4068457.90 | 4.49 | 906.50 | -1.42 | 2778.00 |
| 542007.60 | 4068455.50 | 4.64 | 906.60 | -1.49 | 2780.00 |
| 542007.60 | 4068452.90 | 4.02 | 906.60 | -1.77 | 2782.00 |
| 542007.10 | 4068450.80 | 4.30 | 906.70 | -1.66 | 2784.00 |
| 542006.60 | 4068448.60 | 4.26 | 906.80 | -2.23 | 2786.00 |
| 542006.20 | 4068446.40 | 3.91 | 906.80 | -2.15 | 2788.00 |
| 542006.20 | 4068444.30 | 5.36 | 906.80 | -1.97 | 2790.00 |
| 542006.30 | 4068442.20 | 6.07 | 906.80 | -1.62 | 2792.00 |
| 542006.30 | 4068439.80 | 4.79 | 906.80 | -1.77 | 2794.00 |
| 542006.10 | 4068437.40 | 5.80 | 906.90 | -2.78 | 2796.00 |
| 542005.50 | 4068435.10 | 6.85 | 906.90 | -2.03 | 2798.00 |
| 542005.30 | 4068432.90 | 6.53 | 907.00 | -1.69 | 2800.00 |
| 542005.70 | 4068430.70 | 6.47 | 906.90 | -2.21 | 2802.00 |
| 542005.70 | 4068428.50 | 6.37 | 907.10 | -1.94 | 2804.00 |
| 542005.60 | 4068426.50 | 4.99 | 907.00 | -2.67 | 2806.00 |
| 542005.70 | 4068424.30 | 5.93 | 907.10 | -3.03 | 2808.00 |
| 542005.30 | 4068422.10 | 6.31 | 907.10 | -2.34 | 2810.00 |
| 542004.90 | 4068419.70 | 7.13 | 907.10 | -2.29 | 2812.00 |
| 542004.60 | 4068417.60 | 6.54 | 907.10 | -2.92 | 2814.00 |
| 542005.50 | 4068415.50 | 6.00 | 907.20 | -2.14 | 2816.00 |
| 542005.50 | 4068413.20 | 5.75 | 907.20 | -3.02 | 2818.00 |
| 542005.20 | 4068410.70 | 5.58 | 907.10 | -2.43 | 2820.00 |
| 542005.00 | 4068408.30 | 7.10 | 907.00 | -1.93 | 2822.00 |
| 542004.60 | 4068406.00 | 6.88 | 907.10 | -2.08 | 2824.00 |
| 542003.80 | 4068404.00 | 5.75 | 907.00 | -2.28 | 2826.00 |
| 542003.40 | 4068401.60 | 5.53 | 907.00 | -2.81 | 2828.00 |
| 542003.80 | 4068399.20 | 6.23 | 907.00 | -2.61 | 2830.00 |
| 542003.70 | 4068396.80 | 5.18 | 906.90 | -3.26 | 2832.00 |
| 542003.80 | 4068394.40 | 4.92 | 907.00 | -2.55 | 2834.00 |
| 542003.70 | 4068391.80 | 4.64 | 906.90 | -2.21 | 2836.00 |
| 542003.70 | 4068389.50 | 4.67 | 906.80 | -2.07 | 2838.00 |
| 542004.20 | 4068387.00 | 4.49 | 906.80 | -1.66 | 2840.00 |
| 542004.90 | 4068384.60 | 4.22 | 906.70 | -1.94 | 2842.00 |
| 542005.30 | 4068382.20 | 3.88 | 906.60 | -1.48 | 2844.00 |
| 542006.10 | 4068379.60 | 3.51 | 906.60 | -1.74 | 2846.00 |
| 542005.90 | 4068377.10 | 3.90 | 906.50 | -1.50 | 2848.00 |
| 542006.00 | 4068374.50 | 4.69 | 906.50 | -1.37 | 2850.00 |
| 542005.60 | 4068372.00 | 3.90 | 906.50 | -1.62 | 2852.00 |
| 542005.70 | 4068369.50 | 4.08 | 906.30 | -1.46 | 2854.00 |
| 542006.40 | 4068367.10 | 4.24 | 906.30 | -1.52 | 2856.00 |
| 542006.80 | 4068364.50 | 4.17 | 906.40 | -2.06 | 2858.00 |
| 542006.80 | 4068361.90 | 4.23 | 906.30 | -1.61 | 2860.00 |
| 542007.10 | 4068359.40 | 4.28 | 906.30 | -1.51 | 2862.00 |
| 542007.00 | 4068356.80 | 4.46 | 906.40 | -1.48 | 2864.00 |
| 542005.80 | 4068354.30 | 5.75 | 906.40 | -1.52 | 2866.00 |
| 542005.50 | 4068351.60 | 5.69 | 906.40 | -2.05 | 2868.00 |
| 542006.00 | 4068349.00 | 6.38 | 906.40 | -2.32 | 2870.00 |
| 542006.90 | 4068346.60 | 7.92 | 906.50 | -1.28 | 2872.00 |
| 542008.30 | 4068344.70 | 9.72 | 906.50 | -2.02 | 2874.00 |
| 542009.10 | 4068342.40 | 9.71 | 906.40 | -2.34 | 2876.00 |
| 542009.10 | 4068339.80 | 9.49 | 906.40 | -1.81 | 2878.00 |
| 542009.10 | 4068337.20 | 10.45 | 906.30 | -2.12 | 2880.00 |
| 542009.10 | 4068334.60 | 10.40 | 906.30 | -2.14 | 2882.00 |

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| 542008.80 | 4068332.30 | 9.90 | 906.30 | -2.40 | 2884.00 |
| 542008.00 | 4068329.90 | 9.13 | 906.30 | -2.70 | 2886.00 |
| 542008.00 | 4068327.20 | 8.87 | 906.30 | -3.10 | 2888.00 |
| 542008.40 | 4068324.80 | 9.12 | 906.20 | -3.25 | 2890.00 |
| 542008.60 | 4068322.40 | 9.31 | 906.10 | -3.08 | 2892.00 |
| 542008.50 | 4068320.40 | 9.32 | 906.00 | -2.57 | 2894.00 |
| 542008.80 | 4068317.80 | 9.02 | 906.00 | -1.77 | 2896.00 |
| 542009.30 | 4068315.40 | 7.99 | 906.00 | -2.67 | 2898.00 |
| 542009.40 | 4068312.80 | 8.13 | 905.90 | -2.94 | 2900.00 |
| 542009.80 | 4068310.40 | 7.91 | 905.80 | -2.88 | 2902.00 |
| 542010.20 | 4068308.10 | 7.08 | 905.90 | -2.84 | 2904.00 |
| 542010.00 | 4068305.70 | 5.12 | 905.90 | -2.56 | 2906.00 |
| 542009.30 | 4068303.40 | 7.00 | 905.80 | -1.73 | 2908.00 |
| 542009.20 | 4068300.80 | 6.43 | 905.70 | -1.68 | 2910.00 |
| 542009.00 | 4068298.30 | 6.05 | 905.60 | -1.39 | 2912.00 |
| 542008.40 | 4068295.80 | 6.05 | 905.60 | -1.19 | 2914.00 |
| 542008.40 | 4068293.10 | 5.63 | 905.50 | -1.86 | 2916.00 |
| 542008.60 | 4068290.60 | 5.88 | 905.40 | -2.51 | 2918.00 |
| 542008.20 | 4068288.10 | 7.63 | 905.30 | -1.81 | 2920.00 |
| 542007.70 | 4068285.60 | 8.82 | 905.20 | -1.55 | 2922.00 |
| 542006.70 | 4068283.20 | 8.54 | 905.20 | -2.62 | 2924.00 |
| 542005.80 | 4068281.00 | 8.37 | 905.10 | -3.30 | 2926.00 |
| 542004.80 | 4068278.60 | 8.99 | 905.00 | -3.03 | 2928.00 |
| 542003.30 | 4068276.90 | 9.06 | 905.00 | -2.82 | 2930.00 |
| 542002.50 | 4068274.50 | 9.10 | 904.90 | -1.95 | 2932.00 |
| 542001.50 | 4068272.10 | 7.45 | 904.90 | -2.73 | 2934.00 |
| 542000.30 | 4068269.80 | 6.56 | 904.80 | -2.06 | 2936.00 |
| 541999.10 | 4068267.40 | 6.66 | 904.70 | -1.70 | 2938.00 |
| 541997.90 | 4068265.00 | 5.58 | 904.60 | -1.75 | 2940.00 |
| 541997.80 | 4068262.40 | 5.52 | 904.60 | -1.86 | 2942.00 |
| 541997.60 | 4068259.70 | 6.63 | 904.50 | -1.97 | 2944.00 |
| 541998.20 | 4068257.20 | 6.61 | 904.50 | -2.54 | 2946.00 |
| 541998.80 | 4068254.80 | 4.19 | 904.60 | -2.97 | 2948.00 |
| 541999.20 | 4068252.30 | 7.10 | 904.50 | -3.20 | 2950.00 |
| 541999.00 | 4068249.80 | 7.98 | 904.50 | -2.54 | 2952.00 |
| 541998.60 | 4068247.30 | 4.94 | 904.50 | -1.97 | 2954.00 |
| 541998.10 | 4068244.70 | 5.77 | 904.30 | -1.52 | 2956.00 |
| 541997.90 | 4068242.20 | 6.04 | 904.20 | -1.44 | 2958.00 |
| 541997.30 | 4068239.70 | 5.50 | 904.20 | -1.73 | 2960.00 |
| 541996.80 | 4068237.20 | 5.47 | 904.20 | -2.30 | 2962.00 |
| 541996.80 | 4068234.60 | 5.85 | 904.10 | -2.06 | 2964.00 |
| 541997.20 | 4068232.20 | 5.27 | 904.10 | -1.82 | 2966.00 |
| 541997.50 | 4068229.60 | 5.56 | 904.20 | -1.98 | 2968.00 |
| 541997.90 | 4068227.10 | 5.87 | 904.10 | -2.55 | 2970.00 |
| 541998.40 | 4068224.80 | 6.39 | 904.10 | -2.14 | 2972.00 |
| 541998.90 | 4068222.40 | 6.77 | 904.10 | -2.53 | 2974.00 |
| 541999.60 | 4068219.80 | 6.52 | 904.10 | -2.75 | 2976.00 |
| 542000.00 | 4068217.10 | 6.96 | 904.00 | -3.09 | 2978.00 |
| 542000.30 | 4068214.50 | 8.08 | 904.00 | -3.00 | 2980.00 |
| 542000.50 | 4068211.80 | 8.01 | 904.00 | -2.31 | 2982.00 |
| 542000.40 | 4068209.20 | 6.24 | 904.00 | -2.56 | 2984.00 |
| 542000.30 | 4068206.80 | 5.21 | 904.00 | -2.84 | 2986.00 |
| 541999.90 | 4068204.50 | 4.86 | 903.90 | -2.75 | 2988.00 |
| 542000.40 | 4068202.10 | 4.10 | 903.80 | -2.54 | 2990.00 |
| 542001.10 | 4068199.70 | 3.97 | 903.60 | -2.07 | 2992.00 |
| 542001.90 | 4068197.40 | 4.21 | 903.50 | -1.91 | 2994.00 |
| 542002.30 | 4068194.90 | 4.16 | 903.50 | -2.00 | 2996.00 |

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| 542002.60 | 4068192.30 | 3.80 | 903.40 | -2.00 | 2998.00 |
| 542003.20 | 4068190.10 | 3.77 | 903.30 | -1.86 | 3000.00 |
| 542003.30 | 4068187.70 | 4.16 | 903.10 | -1.57 | 3002.00 |
| 542002.90 | 4068185.30 | 4.29 | 903.10 | -1.51 | 3004.00 |
| 542003.10 | 4068182.90 | 3.89 | 902.90 | -1.68 | 3006.00 |
| 542003.10 | 4068180.50 | 4.56 | 902.80 | -1.80 | 3008.00 |
| 542003.40 | 4068178.20 | 4.13 | 902.70 | -1.64 | 3010.00 |
| 542003.50 | 4068175.70 | 4.39 | 902.50 | -1.52 | 3012.00 |
| 542003.20 | 4068173.10 | 4.61 | 902.40 | -1.65 | 3014.00 |
| 542002.40 | 4068170.80 | 4.37 | 902.30 | -1.52 | 3016.00 |
| 542002.20 | 4068168.40 | 4.06 | 902.20 | -1.50 | 3018.00 |
| 542003.30 | 4068166.10 | 3.47 | 902.00 | -1.16 | 3020.00 |
| 542003.90 | 4068163.70 | 3.81 | 901.90 | -1.73 | 3022.00 |
| 542004.50 | 4068161.20 | 3.36 | 901.80 | -1.38 | 3024.00 |
| 542004.90 | 4068158.60 | 3.64 | 901.50 | -0.97 | 3026.00 |
| 542005.20 | 4068156.00 | 3.57 | 901.50 | -0.75 | 3028.00 |
| 542005.40 | 4068153.30 | 4.32 | 901.40 | -1.04 | 3030.00 |
| 542006.10 | 4068150.90 | 2.93 | 901.30 | -1.14 | 3032.00 |
| 542006.10 | 4068148.30 | 4.23 | 901.10 | -1.03 | 3034.00 |
| 542006.30 | 4068145.80 | 5.25 | 900.90 | -1.23 | 3036.00 |
| 542007.10 | 4068143.20 | 6.00 | 900.80 | -1.74 | 3038.00 |
| 542008.20 | 4068141.00 | 5.91 | 900.60 | -1.96 | 3040.00 |
| 542008.40 | 4068138.50 | 5.59 | 900.50 | -2.55 | 3042.00 |
| 542008.30 | 4068136.00 | 8.21 | 900.40 | -2.14 | 3044.00 |
| 542008.30 | 4068133.50 | 9.11 | 900.30 | -1.04 | 3046.00 |
| 542009.30 | 4068131.20 | 7.21 | 900.10 | -1.77 | 3048.00 |
| 542009.10 | 4068128.80 | 7.15 | 900.00 | -2.82 | 3050.00 |
| 542009.10 | 4068126.50 | 8.10 | 899.80 | -3.19 | 3052.00 |
| 542009.30 | 4068123.90 | 7.76 | 899.70 | -2.74 | 3054.00 |
| 542009.80 | 4068121.60 | 8.42 | 899.50 | -3.07 | 3056.00 |
| 542010.40 | 4068119.40 | 8.96 | 899.40 | -2.69 | 3058.00 |
| 542010.80 | 4068117.00 | 8.39 | 899.30 | -2.83 | 3060.00 |
| 542011.90 | 4068114.90 | 9.35 | 899.10 | -2.65 | 3062.00 |
| 542012.90 | 4068112.70 | 9.94 | 899.00 | -2.57 | 3064.00 |
| 542012.40 | 4068110.90 | 10.15 | 898.80 | -2.56 | 3066.00 |
| 542011.70 | 4068109.10 | 10.85 | 898.60 | -2.54 | 3068.00 |
| 542012.30 | 4068106.80 | 10.02 | 898.60 | -2.74 | 3070.00 |
| 542012.50 | 4068104.60 | 10.51 | 898.40 | -2.81 | 3072.00 |
| 542012.00 | 4068102.50 | 10.16 | 898.50 | -2.71 | 3074.00 |
| 542012.70 | 4068100.50 | 9.77 | 898.40 | -3.13 | 3076.00 |
| 542013.70 | 4068098.10 | 8.63 | 898.40 | -2.79 | 3078.00 |
| 542014.30 | 4068095.70 | 7.14 | 898.20 | -2.15 | 3080.00 |
| 542015.00 | 4068093.20 | 7.67 | 898.10 | -1.27 | 3082.00 |
| 542015.30 | 4068090.60 | 6.07 | 897.90 | -1.18 | 3084.00 |
| 542015.40 | 4068087.90 | 5.68 | 897.80 | -1.27 | 3086.00 |
| 542015.40 | 4068085.20 | 5.82 | 897.60 | -1.18 | 3088.00 |
| 542014.50 | 4068082.80 | 6.11 | 897.50 | -1.64 | 3090.00 |
| 542014.60 | 4068080.40 | 5.74 | 897.40 | -2.28 | 3092.00 |
| 542015.70 | 4068078.20 | 6.18 | 897.30 | -2.10 | 3094.00 |
| 542016.00 | 4068075.60 | 6.21 | 897.20 | -2.09 | 3096.00 |
| 542016.20 | 4068073.10 | 6.40 | 897.10 | -2.37 | 3098.00 |
| 542016.70 | 4068070.70 | 6.53 | 897.00 | -2.05 | 3100.00 |
| 542016.70 | 4068068.00 | 6.66 | 896.80 | -1.78 | 3102.00 |
| 542016.80 | 4068065.70 | 5.93 | 896.60 | -2.61 | 3104.00 |
| 542017.20 | 4068063.40 | 6.36 | 896.60 | -3.52 | 3106.00 |
| 542018.00 | 4068061.20 | 6.58 | 896.40 | -3.22 | 3108.00 |
| 542018.60 | 4068059.30 | 7.67 | 896.20 | -2.04 | 3110.00 |

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| 542018.70 | 4068057.00 | 8.09 | 896.10 | -1.76 | 3112.00 |
| 542017.60 | 4068054.60 | 6.80 | 896.00 | -2.88 | 3114.00 |
| 542016.20 | 4068052.70 | 5.67 | 896.00 | -2.27 | 3116.00 |
| 542015.40 | 4068050.20 | 5.52 | 895.80 | -2.08 | 3118.00 |
| 542014.50 | 4068047.90 | 5.11 | 895.90 | -2.39 | 3120.00 |
| 542013.30 | 4068045.80 | 4.65 | 895.80 | -3.07 | 3122.00 |
| 542012.50 | 4068043.10 | 5.85 | 895.60 | -1.73 | 3124.00 |
| 542012.20 | 4068040.80 | 6.61 | 895.80 | -2.05 | 3126.00 |
| 542011.60 | 4068039.10 | 6.32 | 896.10 | -2.56 | 3128.00 |
| 542010.80 | 4068036.80 | 7.40 | 896.30 | -2.93 | 3130.00 |
| 542010.70 | 4068034.40 | 9.94 | 896.50 | -2.91 | 3132.00 |
| 542010.20 | 4068031.80 | 8.89 | 896.60 | -2.97 | 3134.00 |
| 542009.90 | 4068029.40 | 5.48 | 896.80 | -2.95 | 3136.00 |
| 542009.30 | 4068027.10 | 8.44 | 896.90 | -2.10 | 3138.00 |
| 542008.80 | 4068024.80 | 6.88 | 897.00 | -1.36 | 3140.00 |
| 542008.70 | 4068022.50 | 6.24 | 897.10 | -1.75 | 3142.00 |
| 542008.10 | 4068020.10 | 6.47 | 897.30 | -2.24 | 3144.00 |
| 542007.10 | 4068017.90 | 7.76 | 897.40 | -2.01 | 3146.00 |
| 542006.80 | 4068015.40 | 8.88 | 897.50 | -1.88 | 3148.00 |
| 542006.40 | 4068012.90 | 8.53 | 897.60 | -1.97 | 3150.00 |
| 542006.60 | 4068010.70 | 7.23 | 897.80 | -2.38 | 3152.00 |
| 542007.00 | 4068008.40 | 6.42 | 897.90 | -1.92 | 3154.00 |
| 542008.00 | 4068006.50 | 6.59 | 898.10 | -2.00 | 3156.00 |
| 542008.70 | 4068004.50 | 7.60 | 898.10 | -1.50 | 3158.00 |
| 542008.80 | 4068002.70 | 7.32 | 898.20 | -1.92 | 3160.00 |
| 542008.50 | 4068000.10 | 7.15 | 898.40 | -2.54 | 3265.00 |
| 542008.40 | 4068000.20 | 6.76 | 898.40 | -2.53 | 3267.00 |
| 542007.80 | 4068001.50 | 7.42 | 898.20 | -1.74 | 3269.00 |
| 542006.70 | 4068003.30 | 7.09 | 898.10 | -1.70 | 3271.00 |
| 542005.40 | 4068005.20 | 6.29 | 897.90 | -2.24 | 3273.00 |
| 542004.60 | 4068007.40 | 7.11 | 897.90 | -2.59 | 3275.00 |
| 542003.00 | 4068009.20 | 9.27 | 897.60 | -1.78 | 3277.00 |
| 542001.00 | 4068010.30 | 9.47 | 897.50 | -2.17 | 3279.00 |
| 541999.50 | 4068012.30 | 7.72 | 897.40 | -2.44 | 3281.00 |
| 541997.60 | 4068013.20 | 8.29 | 897.20 | -1.93 | 3283.00 |
| 541996.10 | 4068014.90 | 8.54 | 897.10 | -2.70 | 3285.00 |
| 541994.90 | 4068017.00 | 8.61 | 896.90 | -2.88 | 3287.00 |
| 541993.90 | 4068019.30 | 8.14 | 896.70 | -2.48 | 3289.00 |
| 541993.20 | 4068021.50 | 8.50 | 896.50 | -1.46 | 3291.00 |
| 541991.90 | 4068023.60 | 9.06 | 896.50 | -0.73 | 3293.00 |
| 541990.80 | 4068025.70 | 9.10 | 896.40 | -1.32 | 3295.00 |
| 541989.40 | 4068027.70 | 8.53 | 896.20 | -1.73 | 3297.00 |
| 541988.10 | 4068030.00 | 8.97 | 896.00 | -3.15 | 3299.00 |
| 541987.40 | 4068032.30 | 9.55 | 896.00 | -3.34 | 3301.00 |
| 541986.50 | 4068034.60 | 8.39 | 895.90 | -3.02 | 3303.00 |
| 541985.30 | 4068036.80 | 8.96 | 895.70 | -2.55 | 3305.00 |
| 541984.10 | 4068039.00 | 8.09 | 895.50 | -3.13 | 3307.00 |
| 541982.30 | 4068041.00 | 8.13 | 895.40 | -2.01 | 3309.00 |
| 541981.80 | 4068043.30 | 6.73 | 895.30 | -2.64 | 3311.00 |
| 541981.50 | 4068045.80 | 5.38 | 895.20 | -2.78 | 3313.00 |
| 541980.60 | 4068048.10 | 5.20 | 895.30 | -2.27 | 3315.00 |
| 541980.00 | 4068050.30 | 4.78 | 895.10 | -1.63 | 3317.00 |
| 541979.40 | 4068052.50 | 4.87 | 895.30 | -2.30 | 3319.00 |
| 541979.10 | 4068054.80 | 4.73 | 895.40 | -2.57 | 3321.00 |
| 541977.90 | 4068056.60 | 4.40 | 895.70 | -2.16 | 3323.00 |
| 541976.80 | 4068058.40 | 4.22 | 895.90 | -2.32 | 3325.00 |
| 541975.70 | 4068060.10 | 4.12 | 896.20 | -2.27 | 3327.00 |

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| 541975.20 | 4068062.10 | 4.92 | 896.40 | -1.83 | 3329.00 |
| 541974.70 | 4068064.00 | 5.64 | 896.60 | -2.26 | 3331.00 |
| 541974.50 | 4068066.10 | 5.53 | 896.90 | -2.73 | 3333.00 |
| 541974.30 | 4068068.30 | 5.77 | 897.00 | -2.96 | 3335.00 |
| 541973.50 | 4068070.40 | 6.17 | 897.20 | -2.40 | 3337.00 |
| 541972.70 | 4068072.40 | 8.87 | 897.40 | -0.62 | 3339.00 |
| 541972.30 | 4068074.70 | 6.92 | 897.50 | -2.04 | 3341.00 |
| 541971.20 | 4068076.50 | 7.59 | 897.70 | -1.76 | 3343.00 |
| 541970.40 | 4068078.50 | 7.78 | 897.80 | -2.11 | 3345.00 |
| 541969.80 | 4068080.70 | 6.67 | 898.00 | -2.86 | 3347.00 |
| 541969.00 | 4068082.90 | 6.70 | 898.10 | -1.81 | 3349.00 |
| 541967.90 | 4068085.00 | 5.27 | 898.20 | -0.29 | 3351.00 |
| 541966.70 | 4068087.00 | 5.49 | 898.30 | -0.92 | 3353.00 |
| 541965.30 | 4068088.90 | 4.75 | 898.40 | -0.65 | 3355.00 |
| 541964.20 | 4068090.90 | 3.48 | 898.50 | -0.79 | 3357.00 |
| 541963.40 | 4068093.20 | 3.00 | 898.70 | -0.43 | 3359.00 |
| 541963.20 | 4068094.30 | 3.13 | 898.70 | -0.76 | 3360.00 |
| 541962.10 | 4068097.50 | 3.51 | 898.90 | -0.73 | 3363.00 |
| 541960.80 | 4068099.30 | 3.26 | 899.00 | -0.44 | 3365.00 |
| 541959.80 | 4068101.50 | 3.36 | 899.10 | -1.03 | 3367.00 |
| 541958.80 | 4068103.60 | 3.48 | 899.30 | -0.83 | 3369.00 |
| 541958.60 | 4068105.80 | 3.55 | 899.40 | -0.76 | 3371.00 |
| 541957.30 | 4068107.80 | 3.29 | 899.50 | -0.28 | 3373.00 |
| 541956.70 | 4068108.80 | 3.35 | 899.60 | -0.59 | 3374.00 |
| 541955.20 | 4068112.00 | 4.12 | 899.80 | -0.94 | 3377.00 |
| 541953.70 | 4068113.70 | 4.21 | 899.80 | -1.10 | 3379.00 |
| 541952.30 | 4068115.40 | 3.77 | 899.90 | -1.38 | 3381.00 |
| 541951.20 | 4068117.50 | 5.33 | 899.90 | -1.07 | 3383.00 |
| 541950.20 | 4068119.50 | 4.92 | 900.10 | -1.32 | 3385.00 |
| 541949.10 | 4068121.50 | 5.64 | 900.10 | -0.96 | 3387.00 |
| 541948.20 | 4068123.60 | 7.22 | 900.20 | -0.70 | 3389.00 |
| 541947.20 | 4068125.70 | 7.84 | 900.20 | -1.25 | 3391.00 |
| 541946.90 | 4068126.80 | 6.41 | 900.40 | -4.05 | 3392.00 |
| 541945.50 | 4068129.80 | 7.32 | 900.40 | -3.22 | 3395.00 |
| 541944.70 | 4068132.10 | 7.13 | 900.40 | -2.56 | 3397.00 |
| 541944.00 | 4068134.50 | 6.46 | 900.50 | 0.12 | 3399.00 |
| 541943.50 | 4068136.90 | 6.05 | 900.50 | 0.81 | 3401.00 |
| 541943.10 | 4068139.20 | 5.79 | 900.80 | -0.19 | 3403.00 |
| 541942.50 | 4068141.50 | 5.66 | 900.80 | -0.18 | 3405.00 |
| 541941.90 | 4068143.90 | 4.59 | 901.00 | -0.47 | 3407.00 |
| 541941.10 | 4068146.20 | 4.11 | 901.10 | -1.89 | 3409.00 |
| 541940.40 | 4068148.50 | 4.79 | 901.20 | -1.03 | 3411.00 |
| 541939.80 | 4068150.90 | 5.16 | 901.30 | -0.84 | 3413.00 |
| 541939.40 | 4068153.10 | 4.82 | 901.40 | -1.13 | 3415.00 |
| 541938.30 | 4068155.30 | 5.99 | 901.50 | -0.36 | 3417.00 |
| 541937.50 | 4068157.70 | 5.37 | 901.50 | -1.43 | 3419.00 |
| 541936.60 | 4068160.10 | 7.01 | 901.50 | -2.96 | 3421.00 |
| 541935.80 | 4068162.40 | 4.93 | 901.60 | -1.44 | 3423.00 |
| 541935.20 | 4068164.80 | 5.62 | 901.70 | -0.56 | 3425.00 |
| 541934.60 | 4068167.00 | 5.65 | 901.80 | -0.52 | 3427.00 |
| 541933.90 | 4068169.40 | 4.57 | 901.80 | -0.51 | 3429.00 |
| 541933.20 | 4068171.70 | 5.77 | 901.80 | 0.12 | 3431.00 |
| 541932.40 | 4068173.90 | 5.24 | 901.80 | -0.05 | 3433.00 |
| 541931.20 | 4068176.10 | 4.46 | 901.80 | -0.56 | 3435.00 |
| 541930.10 | 4068178.20 | 5.87 | 901.80 | -0.04 | 3437.00 |
| 541929.30 | 4068180.50 | 5.75 | 901.80 | -0.10 | 3439.00 |
| 541928.70 | 4068182.70 | 6.30 | 901.80 | -0.67 | 3441.00 |

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| 541927.70 | 4068184.90 | 7.05 | 901.80 | -0.51 | 3443.00 |
| 541927.00 | 4068187.10 | 5.39 | 901.80 | -2.24 | 3445.00 |
| 541925.90 | 4068189.20 | 7.90 | 901.80 | -2.51 | 3447.00 |
| 541924.80 | 4068191.40 | 10.59 | 901.70 | -2.65 | 3449.00 |
| 541923.90 | 4068193.50 | 10.85 | 901.70 | -2.49 | 3451.00 |
| 541922.90 | 4068195.90 | 10.42 | 901.70 | -2.49 | 3453.00 |
| 541922.30 | 4068198.20 | 9.05 | 901.60 | -2.70 | 3455.00 |
| 541921.70 | 4068200.60 | 7.96 | 901.60 | -2.50 | 3457.00 |
| 541920.80 | 4068202.90 | 8.30 | 901.50 | -2.25 | 3459.00 |
| 541919.20 | 4068204.80 | 8.39 | 901.60 | -1.15 | 3461.00 |
| 541918.20 | 4068207.10 | 7.56 | 901.50 | -0.50 | 3463.00 |
| 541917.70 | 4068209.50 | 7.19 | 901.60 | -0.95 | 3465.00 |
| 541916.90 | 4068211.90 | 6.40 | 901.60 | -1.13 | 3467.00 |
| 541916.10 | 4068214.40 | 6.08 | 901.60 | -2.18 | 3469.00 |
| 541915.90 | 4068216.80 | 7.25 | 901.60 | -3.49 | 3471.00 |
| 541914.80 | 4068219.00 | 7.86 | 901.60 | -3.39 | 3473.00 |
| 541913.20 | 4068221.00 | 6.48 | 901.50 | -2.86 | 3475.00 |
| 541912.00 | 4068223.30 | 6.28 | 901.40 | -1.56 | 3477.00 |
| 541910.90 | 4068225.60 | 6.11 | 901.40 | -1.48 | 3479.00 |
| 541910.70 | 4068228.00 | 6.61 | 901.30 | -1.94 | 3481.00 |
| 541910.40 | 4068230.50 | 7.01 | 901.30 | -1.22 | 3483.00 |
| 541909.60 | 4068232.90 | 7.77 | 901.20 | -0.86 | 3485.00 |
| 541907.90 | 4068234.80 | 7.89 | 901.10 | -1.52 | 3487.00 |
| 541906.00 | 4068236.40 | 7.82 | 901.10 | -2.18 | 3489.00 |
| 541905.40 | 4068238.80 | 8.71 | 901.20 | -2.88 | 3491.00 |
| 541904.50 | 4068241.00 | 9.34 | 901.20 | -3.44 | 3493.00 |
| 541903.70 | 4068243.40 | 8.88 | 901.10 | -4.51 | 3495.00 |
| 541902.50 | 4068245.80 | 10.85 | 901.10 | -2.45 | 3497.00 |
| 541901.30 | 4068248.10 | 9.12 | 901.10 | -2.57 | 3499.00 |
| 541900.20 | 4068250.30 | 8.80 | 901.20 | -2.03 | 3501.00 |
| 541899.30 | 4068252.60 | 8.29 | 901.20 | -1.80 | 3503.00 |
| 541898.00 | 4068255.00 | 7.88 | 901.20 | -1.80 | 3505.00 |
| 541896.60 | 4068257.10 | 7.54 | 901.20 | -1.91 | 3507.00 |
| 541895.50 | 4068259.50 | 7.36 | 901.20 | -2.44 | 3509.00 |
| 541894.10 | 4068261.50 | 5.93 | 901.20 | -1.88 | 3511.00 |
| 541893.30 | 4068263.80 | 5.97 | 901.30 | -1.61 | 3513.00 |
| 541892.80 | 4068266.20 | 6.37 | 901.40 | -1.29 | 3515.00 |
| 541891.80 | 4068268.50 | 6.93 | 901.40 | -1.61 | 3517.00 |
| 541891.00 | 4068270.70 | 6.08 | 901.30 | -1.82 | 3519.00 |
| 541889.90 | 4068272.90 | 5.73 | 901.40 | -1.85 | 3521.00 |
| 541888.80 | 4068274.90 | 6.21 | 901.40 | -1.82 | 3523.00 |
| 541887.70 | 4068277.00 | 6.90 | 901.30 | -1.13 | 3525.00 |
| 541886.60 | 4068279.40 | 7.00 | 901.30 | -0.99 | 3527.00 |
| 541885.40 | 4068281.60 | 7.12 | 901.20 | -2.28 | 3529.00 |
| 541885.00 | 4068283.80 | 6.83 | 901.20 | -2.70 | 3531.00 |
| 541884.50 | 4068286.20 | 7.22 | 901.10 | -2.27 | 3533.00 |
| 541884.20 | 4068288.70 | 8.29 | 901.10 | -2.30 | 3535.00 |
| 541884.20 | 4068291.10 | 9.01 | 901.10 | -2.47 | 3537.00 |
| 541883.60 | 4068293.30 | 7.16 | 901.20 | -2.85 | 3539.00 |
| 541882.60 | 4068295.50 | 6.78 | 901.40 | -2.90 | 3541.00 |
| 541881.30 | 4068297.60 | 6.88 | 901.30 | -3.07 | 3543.00 |
| 541879.90 | 4068299.90 | 6.83 | 901.30 | -3.03 | 3545.00 |
| 541879.20 | 4068302.30 | 6.14 | 901.40 | -3.23 | 3547.00 |
| 541878.90 | 4068304.60 | 5.85 | 901.50 | -3.10 | 3549.00 |
| 541878.20 | 4068306.90 | 5.03 | 901.40 | -3.27 | 3551.00 |
| 541877.50 | 4068309.10 | 5.60 | 901.30 | -3.32 | 3553.00 |
| 541876.70 | 4068311.60 | 5.87 | 901.30 | -3.05 | 3555.00 |

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| 541875.50 | 4068313.60 | 4.96 | 901.40 | -3.31 | 3557.00 |
| 541874.40 | 4068315.50 | 4.52 | 901.60 | -3.35 | 3559.00 |
| 541873.30 | 4068317.40 | 6.02 | 901.70 | -3.36 | 3561.00 |
| 541872.20 | 4068319.60 | 5.86 | 901.70 | -3.37 | 3563.00 |
| 541870.50 | 4068321.50 | 6.63 | 901.70 | -3.15 | 3565.00 |
| 541868.80 | 4068323.30 | 6.18 | 901.70 | -3.02 | 3567.00 |
| 541867.60 | 4068325.40 | 6.24 | 901.70 | -2.97 | 3569.00 |
| 541866.60 | 4068327.70 | 5.20 | 901.80 | -2.92 | 3571.00 |
| 541865.60 | 4068329.80 | 4.91 | 901.70 | -3.08 | 3573.00 |
| 541864.40 | 4068331.80 | 4.52 | 901.70 | -2.96 | 3575.00 |
| 541863.90 | 4068333.80 | 3.92 | 901.60 | -3.11 | 3577.00 |
| 541862.90 | 4068334.80 | 4.57 | 901.30 | -2.87 | 3579.00 |
| 541862.30 | 4068336.10 | 4.85 | 900.80 | -2.52 | 3581.00 |
| 541861.60 | 4068337.70 | 5.16 | 900.20 | -2.50 | 3583.00 |
| 541860.80 | 4068339.70 | 5.15 | 899.70 | -3.21 | 3585.00 |
| 541859.70 | 4068342.20 | 5.09 | 899.60 | -3.22 | 3587.00 |
| 541858.60 | 4068344.00 | 4.53 | 899.60 | -2.70 | 3589.00 |
| 541857.70 | 4068346.10 | 4.56 | 899.70 | -2.58 | 3591.00 |
| 541857.00 | 4068348.30 | 4.18 | 899.60 | -3.64 | 3593.00 |
| 541855.70 | 4068350.30 | 5.75 | 899.70 | -2.96 | 3595.00 |
| 541854.70 | 4068352.00 | 5.79 | 899.80 | -2.99 | 3597.00 |
| 541853.10 | 4068353.40 | 6.14 | 900.00 | -2.77 | 3599.00 |
| 541851.30 | 4068354.30 | 5.35 | 900.20 | -2.30 | 3601.00 |
| 541849.70 | 4068355.20 | 4.60 | 900.50 | -2.35 | 3603.00 |
| 541848.50 | 4068356.40 | 4.91 | 900.80 | -2.27 | 3605.00 |
| 541848.10 | 4068358.30 | 4.96 | 900.90 | -2.19 | 3607.00 |
| 541847.80 | 4068360.50 | 5.02 | 901.30 | -2.33 | 3609.00 |
| 541847.00 | 4068362.40 | 4.57 | 901.50 | -2.24 | 3611.00 |
| 541846.10 | 4068364.20 | 4.05 | 901.50 | -2.41 | 3613.00 |
| 541845.30 | 4068366.30 | 4.35 | 901.60 | -2.21 | 3615.00 |
| 541844.20 | 4068368.40 | 3.98 | 901.60 | -2.23 | 3617.00 |
| 541842.80 | 4068370.30 | 4.05 | 901.70 | -2.18 | 3619.00 |
| 541842.10 | 4068372.60 | 4.00 | 901.60 | -2.12 | 3621.00 |
| 541841.80 | 4068374.90 | 4.21 | 901.70 | -2.11 | 3623.00 |
| 541841.40 | 4068377.20 | 5.43 | 901.60 | -1.81 | 3625.00 |
| 541838.50 | 4068366.10 | 0.00 | 901.10 | 0.00 | 3814.50 |

Magnetic data collected on the survey across the South Crater Flat Fault. Data are reported as:

Easting - UTM coordinate WGS84
Northing - UTM coordinate WGS84
Magnetic reading - nanoTeslas. These readings are drift corrected and the International Geomagnetic Reference Field is removed.

Data:

| | | |
|-----------|------------|---------|
| 541833.17 | 4068441.26 | 135.05 |
| 541833.53 | 4068443.84 | 89.94 |
| 541834.46 | 4068446.53 | 133.62 |
| 541834.78 | 4068449.45 | 134.20 |
| 541834.99 | 4068452.37 | 133.59 |
| 541835.17 | 4068455.28 | 25.07 |
| 541835.33 | 4068458.18 | 171.06 |
| 541835.48 | 4068461.07 | 188.44 |
| 541834.93 | 4068463.83 | 159.13 |
| 541834.31 | 4068466.37 | 173.91 |
| 541833.17 | 4068468.51 | 186.90 |
| 541832.27 | 4068471.23 | 154.09 |
| 541831.32 | 4068474.00 | 159.78 |
| 541830.65 | 4068476.71 | 151.07 |
| 541829.94 | 4068479.43 | 142.05 |
| 541829.07 | 4068482.19 | 125.04 |
| 541828.51 | 4068485.00 | 115.03 |
| 541828.39 | 4068487.81 | 107.11 |
| 541828.46 | 4068490.57 | 103.60 |
| 541828.72 | 4068493.33 | 96.88 |
| 541829.20 | 4068496.03 | 95.86 |
| 541828.99 | 4068498.76 | 91.65 |
| 541828.46 | 4068501.36 | 82.14 |
| 541828.04 | 4068504.05 | 68.02 |
| 541827.25 | 4068506.66 | 55.01 |
| 541827.21 | 4068509.31 | 49.20 |
| 541827.22 | 4068511.92 | 43.08 |
| 541827.80 | 4068514.57 | 51.27 |
| 541827.52 | 4068516.98 | 56.06 |
| 541825.26 | 4068516.99 | 38.06 |
| 541823.21 | 4068515.83 | 24.97 |
| 541821.07 | 4068514.04 | 7.39 |
| 541819.17 | 4068512.21 | -11.80 |
| 541816.88 | 4068510.63 | -46.28 |
| 541814.80 | 4068509.19 | -37.27 |
| 541813.18 | 4068509.22 | -35.27 |
| 541811.60 | 4068509.18 | -99.37 |
| 541809.88 | 4068508.69 | -126.16 |
| 541808.03 | 4068507.47 | -123.05 |
| 541805.82 | 4068507.56 | -119.94 |
| 541803.52 | 4068508.15 | -116.34 |
| 541801.07 | 4068507.10 | -133.03 |
| 541798.65 | 4068505.96 | -139.22 |

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|-----------|------------|---------|
| 541796.12 | 4068505.85 | -140.41 |
| 541793.22 | 4068505.91 | -152.11 |
| 541790.48 | 4068505.96 | -157.60 |
| 541787.88 | 4068505.44 | -160.59 |
| 541785.29 | 4068505.01 | -163.48 |
| 541782.93 | 4068504.71 | -165.28 |
| 541780.46 | 4068504.83 | -165.27 |
| 541777.28 | 4068504.62 | -177.36 |
| 541774.73 | 4068504.45 | -169.96 |
| 541772.49 | 4068503.99 | -168.15 |
| 541769.89 | 4068503.02 | -176.34 |
| 541767.91 | 4068501.71 | -178.93 |
| 541765.57 | 4068500.59 | -185.71 |
| 541762.89 | 4068499.80 | -189.40 |
| 541760.39 | 4068498.41 | -184.99 |
| 541757.90 | 4068497.09 | -189.98 |
| 541755.64 | 4068495.96 | -185.57 |
| 541753.05 | 4068494.80 | -186.05 |
| 541750.64 | 4068493.44 | -186.04 |
| 541747.96 | 4068492.79 | -178.53 |
| 541745.41 | 4068491.82 | -188.52 |
| 541742.86 | 4068491.63 | -200.71 |
| 541740.26 | 4068492.19 | -198.91 |
| 541737.70 | 4068493.04 | -198.81 |
| 541735.20 | 4068493.98 | -197.51 |
| 541732.50 | 4068494.77 | -194.61 |
| 541729.85 | 4068494.94 | -194.00 |
| 541726.97 | 4068495.85 | -201.30 |
| 541724.23 | 4068496.55 | -198.20 |
| 541721.56 | 4068497.14 | -200.89 |
| 541718.93 | 4068497.79 | -194.19 |
| 541716.75 | 4068499.23 | -197.19 |
| 541714.19 | 4068500.12 | -204.19 |
| 541711.41 | 4068499.42 | -202.28 |
| 541708.71 | 4068498.64 | -197.47 |
| 541706.04 | 4068498.66 | -195.67 |
| 541703.52 | 4068498.89 | -188.86 |
| 541701.04 | 4068499.43 | -200.86 |
| 541697.96 | 4068499.74 | -201.95 |
| 541695.09 | 4068500.04 | -194.55 |
| 541692.35 | 4068500.67 | -191.55 |
| 541689.91 | 4068500.91 | -189.84 |
| 541687.36 | 4068501.05 | -190.24 |
| 541684.89 | 4068500.42 | -197.93 |
| 541682.66 | 4068500.75 | -196.82 |
| 541680.26 | 4068500.11 | -198.72 |
| 541677.65 | 4068499.88 | -192.71 |
| 541675.08 | 4068499.98 | -191.80 |
| 541672.25 | 4068500.71 | -194.10 |
| 541669.46 | 4068500.50 | -189.09 |
| 541666.76 | 4068501.27 | -186.79 |
| 541664.56 | 4068502.96 | -189.69 |
| 541662.32 | 4068504.76 | -184.40 |
| 541660.30 | 4068506.50 | -182.30 |
| 541657.93 | 4068506.36 | -184.60 |
| 541656.03 | 4068506.62 | -185.10 |

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| 541653.30 | 4068506.44 | -194.99 | 541503.50 | 4068501.15 | -262.62 |
| 541650.50 | 4068506.34 | -190.08 | 541500.70 | 4068500.65 | -266.41 |
| 541647.83 | 4068505.47 | -185.17 | 541498.10 | 4068499.87 | -269.90 |
| 541645.84 | 4068504.46 | -184.16 | 541495.82 | 4068498.82 | -265.99 |
| 541643.36 | 4068503.82 | -183.75 | 541493.26 | 4068498.50 | -258.58 |
| 541640.84 | 4068503.35 | -190.94 | 541490.59 | 4068498.37 | -251.37 |
| 541638.65 | 4068501.87 | -191.93 | 541487.77 | 4068498.85 | -251.47 |
| 541636.26 | 4068500.51 | -195.32 | 541484.93 | 4068499.29 | -241.66 |
| 541633.71 | 4068499.44 | -194.31 | 541482.24 | 4068499.60 | -248.06 |
| 541631.19 | 4068498.48 | -463.29 | 541479.37 | 4068499.94 | -247.55 |
| 541628.71 | 4068497.21 | -203.08 | 541476.50 | 4068500.29 | -249.05 |
| 541626.14 | 4068496.50 | -241.97 | 541473.77 | 4068500.23 | -248.54 |
| 541623.57 | 4068496.21 | -194.87 | 541470.99 | 4068499.88 | -255.24 |
| 541621.24 | 4068495.05 | -198.75 | 541468.46 | 4068499.85 | -258.43 |
| 541619.20 | 4068493.03 | -234.34 | 541465.87 | 4068500.19 | -261.13 |
| 541616.66 | 4068492.33 | -202.83 | 541463.09 | 4068500.53 | -264.22 |
| 541613.94 | 4068492.82 | -364.82 | 541460.40 | 4068500.91 | -269.82 |
| 541611.41 | 4068493.97 | -672.83 | 541457.85 | 4068501.20 | -275.11 |
| 541608.79 | 4068494.73 | -191.02 | 541455.62 | 4068501.34 | -292.01 |
| 541606.03 | 4068495.00 | -197.02 | 541453.18 | 4068501.74 | -302.10 |
| 541603.49 | 4068495.74 | -199.52 | 541450.42 | 4068502.13 | -311.40 |
| 541600.82 | 4068496.18 | -204.01 | 541447.76 | 4068502.46 | -318.70 |
| 541598.59 | 4068497.43 | -222.91 | 541445.29 | 4068502.53 | -334.29 |
| 541595.73 | 4068497.80 | -209.11 | 541442.68 | 4068502.40 | -344.58 |
| 541593.13 | 4068497.09 | -205.00 | 541440.20 | 4068502.51 | -347.08 |
| 541590.62 | 4068496.10 | -211.49 | 541437.59 | 4068502.08 | -346.17 |
| 541587.98 | 4068495.79 | -214.98 | 541435.19 | 4068501.95 | -347.46 |
| 541585.37 | 4068495.88 | -216.28 | 541432.36 | 4068502.09 | -351.56 |
| 541582.97 | 4068494.98 | -224.37 | 541429.78 | 4068502.12 | -363.85 |
| 541580.60 | 4068494.70 | -231.16 | 541427.29 | 4068502.15 | -362.25 |
| 541578.19 | 4068494.44 | -232.15 | 541424.83 | 4068502.04 | -371.84 |
| 541575.65 | 4068494.96 | -241.75 | 541422.35 | 4068502.43 | -385.04 |
| 541572.94 | 4068495.68 | -241.45 | 541419.52 | 4068503.13 | -394.33 |
| 541570.25 | 4068496.18 | -241.14 | 541416.97 | 4068503.35 | -401.33 |
| 541567.49 | 4068496.63 | -249.54 | 541414.21 | 4068502.91 | -416.82 |
| 541564.86 | 4068497.04 | -258.13 | 541411.61 | 4068502.86 | -413.12 |
| 541562.28 | 4068497.57 | -268.43 | 541409.23 | 4068502.56 | -414.01 |
| 541559.54 | 4068498.22 | -283.03 | 541406.68 | 4068502.21 | -416.50 |
| 541556.78 | 4068498.60 | -292.13 | 541403.96 | 4068501.79 | -423.09 |
| 541553.99 | 4068499.03 | -274.02 | 541401.09 | 4068501.57 | -425.28 |
| 541551.38 | 4068499.47 | -251.12 | 541398.25 | 4068501.95 | -425.88 |
| 541548.57 | 4068499.62 | -257.01 | 541395.48 | 4068502.66 | -430.98 |
| 541545.84 | 4068499.89 | -261.71 | 541392.58 | 4068502.57 | -424.67 |
| 541543.02 | 4068500.30 | -267.30 | 541389.71 | 4068502.27 | -417.56 |
| 541540.31 | 4068500.60 | -270.10 | 541386.74 | 4068501.93 | -408.55 |
| 541537.43 | 4068500.72 | -270.89 | 541383.91 | 4068501.19 | -411.54 |
| 541533.34 | 4068501.20 | -276.69 | 541381.17 | 4068500.73 | -412.33 |
| 541531.97 | 4068501.37 | -278.08 | 541378.26 | 4068500.52 | -409.43 |
| 541529.16 | 4068501.38 | -271.18 | 541375.59 | 4068500.73 | -408.32 |
| 541526.44 | 4068501.61 | -350.77 | 541372.80 | 4068500.88 | -402.21 |
| 541523.52 | 4068501.42 | -280.56 | 541370.02 | 4068500.93 | -392.11 |
| 541520.71 | 4068501.38 | -280.56 | 541367.17 | 4068501.09 | -395.70 |
| 541517.91 | 4068501.47 | -277.75 | 541364.28 | 4068500.93 | -390.20 |
| 541515.12 | 4068501.44 | -278.04 | 541361.47 | 4068500.88 | -383.49 |
| 541512.25 | 4068501.52 | -273.44 | 541358.59 | 4068500.83 | -392.68 |
| 541509.43 | 4068501.61 | -271.63 | 541355.77 | 4068500.51 | -380.47 |
| 541506.51 | 4068501.35 | -262.52 | 541353.07 | 4068500.43 | -376.87 |

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| 541350.17 | 4068500.53 | -371.26 | 541193.45 | 4068499.55 | -123.90 |
| 541347.66 | 4068500.20 | -365.85 | 541190.63 | 4068499.93 | -103.89 |
| 541344.95 | 4068499.92 | -359.45 | 541189.17 | 4068500.05 | -94.09 |
| 541342.15 | 4068499.80 | -349.64 | 541186.31 | 4068499.73 | -81.98 |
| 541339.39 | 4068500.00 | -340.83 | 541183.40 | 4068499.65 | -76.17 |
| 541336.58 | 4068499.96 | -333.33 | 541180.50 | 4068499.99 | -63.87 |
| 541333.67 | 4068499.81 | -326.02 | 541177.65 | 4068499.38 | -44.26 |
| 541330.74 | 4068499.83 | -308.01 | 541174.69 | 4068499.46 | -34.85 |
| 541327.97 | 4068499.83 | -293.31 | 541171.76 | 4068499.43 | -22.95 |
| 541325.25 | 4068499.83 | -283.10 | 541168.97 | 4068499.66 | -14.14 |
| 541322.40 | 4068500.02 | -277.69 | 541166.14 | 4068499.27 | -10.73 |
| 541319.64 | 4068499.70 | -268.39 | 541163.43 | 4068499.40 | -15.33 |
| 541317.04 | 4068499.02 | -269.38 | 541160.66 | 4068499.98 | -27.72 |
| 541314.27 | 4068498.81 | -269.37 | 541157.78 | 4068500.17 | -50.02 |
| 541311.55 | 4068498.14 | -272.06 | 541155.23 | 4068500.63 | -83.11 |
| 541309.19 | 4068497.53 | -273.75 | 541152.66 | 4068501.39 | -123.51 |
| 541306.60 | 4068498.19 | -277.55 | 541149.96 | 4068501.50 | -150.31 |
| 541304.14 | 4068498.60 | -265.05 | 541147.31 | 4068501.38 | -175.10 |
| 541301.62 | 4068499.72 | -258.85 | 541144.80 | 4068501.25 | -187.19 |
| 541298.79 | 4068500.23 | -262.64 | 541141.74 | 4068501.65 | -209.39 |
| 541295.93 | 4068500.08 | -260.83 | 541138.85 | 4068501.36 | -220.88 |
| 541292.96 | 4068499.74 | -267.03 | 541135.91 | 4068501.24 | -221.97 |
| 541289.96 | 4068499.61 | -273.92 | 541133.26 | 4068501.16 | -225.97 |
| 541287.00 | 4068499.47 | -281.41 | 541130.42 | 4068501.61 | -251.86 |
| 541284.22 | 4068499.40 | -291.00 | 541127.34 | 4068501.83 | -282.86 |
| 541281.35 | 4068499.15 | -293.10 | 541124.52 | 4068501.92 | -294.15 |
| 541278.39 | 4068499.18 | -298.09 | 541121.52 | 4068501.78 | -301.54 |
| 541275.44 | 4068499.02 | -312.88 | 541118.52 | 4068501.68 | -311.64 |
| 541272.56 | 4068498.81 | -327.27 | 541115.49 | 4068501.60 | -321.63 |
| 541269.75 | 4068498.62 | -330.97 | 541112.43 | 4068501.51 | -320.52 |
| 541267.14 | 4068498.98 | -334.76 | 541109.53 | 4068500.98 | -311.71 |
| 541264.28 | 4068498.81 | -349.36 | 541106.61 | 4068500.38 | -280.00 |
| 541261.45 | 4068498.17 | -325.44 | 541103.61 | 4068500.35 | -269.80 |
| 541259.31 | 4068496.39 | -332.23 | 541100.59 | 4068500.37 | -244.79 |
| 541256.98 | 4068495.64 | -280.12 | 541097.57 | 4068500.84 | -238.28 |
| 541254.35 | 4068494.87 | -271.51 | 541093.12 | 4068500.99 | -237.47 |
| 541251.72 | 4068495.07 | -259.21 | 541091.74 | 4068500.63 | -235.57 |
| 541248.93 | 4068495.22 | -245.00 | 541088.95 | 4068500.35 | -255.56 |
| 541246.12 | 4068495.89 | -230.90 | 541086.14 | 4068500.75 | -279.06 |
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| 541972.30 | 4068406.53 | -531.28 | 541843.05 | 4068378.80 | 483.37 |
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| 541915.70 | 4068356.45 | -200.08 | 542075.19 | 4068349.74 | -33.31 |
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| 541921.24 | 4068356.71 | -724.99 | 542081.22 | 4068349.46 | -948.62 |
| 541923.80 | 4068357.34 | -201.30 | 542084.26 | 4068349.83 | -373.03 |
| 541926.22 | 4068357.43 | -368.51 | 542087.24 | 4068350.11 | 337.36 |

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| 542090.32 | 4068349.82 | 109.76 | 542098.36 | 4068294.91 | -1423.07 |
| 542093.24 | 4068349.38 | 87.75 | 542095.70 | 4068295.89 | -502.67 |
| 542096.29 | 4068349.15 | 621.45 | 542092.82 | 4068296.59 | -900.86 |
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| 542105.03 | 4068348.17 | -45.27 | 542084.20 | 4068297.46 | -157.35 |
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| 542110.72 | 4068349.90 | -159.29 | 542078.71 | 4068296.53 | 166.37 |
| 542113.45 | 4068351.10 | -205.20 | 542075.96 | 4068296.92 | 410.77 |
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| 542118.94 | 4068353.36 | -39.13 | 542070.36 | 4068297.86 | -70.52 |
| 542121.77 | 4068354.19 | -265.64 | 542067.62 | 4068298.25 | -1672.01 |
| 542124.77 | 4068354.97 | -366.45 | 542064.91 | 4068298.36 | 44.09 |
| 542127.59 | 4068355.17 | -315.66 | 542062.20 | 4068298.69 | 291.90 |
| 542130.38 | 4068354.62 | -373.46 | 542059.64 | 4068299.53 | 131.50 |
| 542132.93 | 4068353.48 | -189.36 | 542057.15 | 4068300.17 | -506.60 |
| 542135.65 | 4068352.38 | -14.16 | 542054.46 | 4068301.02 | -472.40 |
| 542138.26 | 4068351.68 | 129.44 | 542051.86 | 4068302.08 | -701.30 |
| 542139.44 | 4068351.62 | 88.13 | 542049.12 | 4068302.80 | -737.00 |
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| 542148.22 | 4068344.54 | 64.65 | 542038.26 | 4068303.13 | -69.17 |
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| 542148.55 | 4068338.61 | 184.18 | 542033.11 | 4068302.09 | 2.54 |
| 542148.84 | 4068335.73 | 329.40 | 542030.70 | 4068301.74 | -240.55 |
| 542149.60 | 4068332.88 | 324.41 | 542028.20 | 4068300.80 | 1517.16 |
| 542150.06 | 4068329.97 | 523.13 | 542025.62 | 4068300.50 | 455.87 |
| 542150.43 | 4068326.98 | 188.04 | 542022.83 | 4068300.53 | -7.12 |
| 542150.97 | 4068324.19 | 578.15 | 542020.12 | 4068300.57 | 265.08 |
| 542151.13 | 4068321.48 | 164.47 | 542017.35 | 4068300.74 | 48.09 |
| 542151.48 | 4068318.75 | -112.82 | 542014.48 | 4068301.25 | -804.81 |
| 542151.57 | 4068315.87 | 365.90 | 542011.67 | 4068301.22 | -590.40 |
| 542151.91 | 4068313.05 | 83.91 | 542007.57 | 4068301.78 | -317.60 |
| 542152.45 | 4068310.22 | 214.43 | 542006.23 | 4068302.04 | 249.21 |
| 542152.85 | 4068307.18 | 76.94 | 542003.60 | 4068302.63 | -114.49 |
| 542153.18 | 4068304.20 | 18.66 | 542000.93 | 4068303.26 | 220.81 |
| 542153.60 | 4068301.38 | 120.17 | 541998.21 | 4068304.00 | 128.51 |
| 542150.85 | 4068301.12 | 403.58 | 541994.03 | 4068303.67 | 22.02 |
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| 542145.31 | 4068301.75 | -310.51 | 541989.74 | 4068303.87 | -603.37 |
| 542142.46 | 4068302.12 | -541.91 | 541987.11 | 4068304.56 | -114.46 |
| 542139.62 | 4068302.06 | -483.30 | 541984.77 | 4068305.93 | 432.93 |
| 542136.63 | 4068301.58 | -560.39 | 541980.74 | 4068307.11 | 1835.54 |
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| 542131.23 | 4068299.26 | -159.76 | 541976.69 | 4068307.75 | 2380.54 |
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| 542125.80 | 4068297.06 | 363.26 | 541971.08 | 4068307.68 | -473.14 |
| 542123.29 | 4068296.15 | 171.07 | 541967.18 | 4068306.88 | -560.93 |
| 542121.15 | 4068296.18 | -107.53 | 541965.84 | 4068306.68 | -598.03 |
| 542117.56 | 4068296.33 | -568.42 | 541963.35 | 4068305.88 | -698.12 |
| 542114.84 | 4068296.38 | -720.51 | 541960.94 | 4068305.10 | -612.21 |
| 542112.12 | 4068296.01 | -396.90 | 541958.39 | 4068305.32 | -664.60 |
| 542109.40 | 4068295.20 | -39.09 | 541954.39 | 4068305.62 | -1045.19 |
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| 542103.97 | 4068294.42 | 18.52 | 541950.62 | 4068306.25 | -440.99 |
| 542101.10 | 4068294.71 | 1330.93 | 541948.00 | 4068306.21 | -23.48 |

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| 541945.36 | 4068305.60 | -57.37 | 541813.18 | 4068273.49 | 138.40 |
| 541941.55 | 4068304.15 | -181.16 | 541811.55 | 4068274.63 | 337.90 |
| 541940.23 | 4068303.74 | -172.45 | 541810.22 | 4068277.08 | 380.39 |
| 541937.62 | 4068303.25 | -202.24 | 541809.52 | 4068279.78 | 407.28 |
| 541934.87 | 4068302.99 | -318.64 | 541808.77 | 4068282.56 | 375.36 |
| 541932.01 | 4068302.89 | -587.63 | 541807.17 | 4068284.69 | 357.06 |
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| 541920.73 | 4068301.10 | 97.01 | 541800.95 | 4068294.34 | 250.32 |
| 541917.78 | 4068301.04 | 106.51 | 541799.07 | 4068296.55 | 213.01 |
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| 541909.26 | 4068301.04 | -528.27 | 541790.38 | 4068296.29 | 161.83 |
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| 541903.61 | 4068301.72 | 220.34 | 541785.52 | 4068296.78 | 123.94 |
| 541899.65 | 4068302.96 | 164.65 | 541782.42 | 4068296.33 | 113.55 |
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| 541895.87 | 4068305.03 | 929.64 | 541776.81 | 4068296.67 | 68.56 |
| 541892.97 | 4068305.03 | 1185.05 | 541773.98 | 4068296.27 | 52.77 |
| 541890.36 | 4068304.32 | 1154.16 | 541771.60 | 4068295.38 | 37.88 |
| 541886.39 | 4068303.57 | -888.83 | 541770.14 | 4068294.27 | 32.59 |
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| 541882.03 | 4068303.24 | -1000.72 | 541765.53 | 4068292.57 | 0.41 |
| 541879.02 | 4068303.28 | 541.99 | 541762.60 | 4068292.91 | -7.59 |
| 541876.02 | 4068303.21 | 1956.60 | 541760.24 | 4068292.70 | -10.98 |
| 541871.96 | 4068301.85 | 514.22 | 541757.47 | 4068293.60 | -25.38 |
| 541870.91 | 4068300.99 | -125.08 | 541754.42 | 4068294.19 | -26.07 |
| 541868.93 | 4068299.09 | -423.96 | 541751.55 | 4068295.02 | -39.17 |
| 541866.73 | 4068297.16 | -628.95 | 541748.57 | 4068295.55 | -41.07 |
| 541865.01 | 4068294.93 | -778.03 | 541745.61 | 4068295.54 | -45.56 |
| 541863.01 | 4068291.01 | -754.11 | 541743.01 | 4068295.46 | -47.35 |
| 541862.31 | 4068289.75 | -522.60 | 541740.24 | 4068295.61 | -52.95 |
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| 541858.44 | 4068285.94 | -131.27 | 541734.77 | 4068294.33 | -67.23 |
| 541855.91 | 4068284.73 | -7.86 | 541732.06 | 4068295.13 | -59.13 |
| 541852.03 | 4068282.77 | -102.64 | 541729.69 | 4068296.60 | -49.23 |
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| 541845.39 | 4068280.29 | -15.81 | 541721.22 | 4068298.77 | -36.02 |
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| 541840.23 | 4068275.62 | -669.87 | 541715.35 | 4068300.07 | -34.82 |
| 541839.19 | 4068274.82 | -902.37 | 541712.57 | 4068300.68 | -30.61 |
| 541836.71 | 4068273.97 | -219.55 | 541710.02 | 4068300.75 | -32.61 |
| 541834.20 | 4068274.52 | -272.15 | 541707.16 | 4068299.97 | -37.80 |
| 541831.58 | 4068274.97 | -337.25 | 541704.41 | 4068299.43 | -36.09 |
| 541829.46 | 4068275.16 | -557.04 | 541701.74 | 4068299.12 | -29.78 |
| 541827.86 | 4068275.79 | -562.14 | 541698.92 | 4068299.00 | -22.67 |
| 541825.91 | 4068276.29 | -593.04 | 541696.18 | 4068299.33 | -15.27 |
| 541824.83 | 4068277.14 | -551.44 | 541693.43 | 4068300.16 | -9.67 |
| 541822.93 | 4068277.80 | -660.24 | 541690.77 | 4068301.21 | -4.57 |
| 541821.58 | 4068278.32 | -629.14 | 541688.20 | 4068302.52 | -2.67 |
| 541820.21 | 4068277.83 | -535.84 | 541685.16 | 4068303.25 | 2.84 |
| 541818.62 | 4068276.99 | -285.73 | 541682.37 | 4068304.00 | 13.44 |
| 541817.85 | 4068275.18 | -186.02 | 541679.55 | 4068304.39 | 19.54 |
| 541816.55 | 4068274.04 | -259.11 | 541676.72 | 4068304.32 | 22.35 |
| 541814.79 | 4068272.84 | -136.00 | 541673.80 | 4068303.76 | 18.16 |

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| 541670.85 | 4068303.27 | 24.97 | 541512.57 | 4068299.65 | -91.15 |
| 541668.09 | 4068302.40 | 29.48 | 541509.82 | 4068299.32 | -85.34 |
| 541665.37 | 4068301.90 | 30.89 | 541507.06 | 4068299.16 | -81.73 |
| 541662.72 | 4068301.93 | 37.39 | 541504.40 | 4068299.43 | -74.93 |
| 541660.06 | 4068302.49 | 44.40 | 541501.63 | 4068299.89 | -63.53 |
| 541657.16 | 4068303.13 | 41.50 | 541498.94 | 4068299.96 | -50.52 |
| 541654.34 | 4068303.46 | 45.31 | 541496.15 | 4068300.08 | -39.62 |
| 541651.60 | 4068303.68 | 47.21 | 541493.46 | 4068299.80 | -35.31 |
| 541648.82 | 4068303.62 | 43.22 | 541490.63 | 4068299.46 | -33.80 |
| 541646.21 | 4068304.00 | 45.52 | 541487.59 | 4068299.40 | -26.49 |
| 541643.35 | 4068304.23 | 42.33 | 541484.87 | 4068299.91 | -13.19 |
| 541640.55 | 4068304.27 | 39.43 | 541482.02 | 4068300.12 | 2.82 |
| 541637.73 | 4068304.45 | 39.84 | 541479.25 | 4068300.14 | 8.52 |
| 541634.86 | 4068304.25 | 35.95 | 541476.35 | 4068300.15 | 15.43 |
| 541631.99 | 4068303.63 | 24.16 | 541473.64 | 4068300.56 | 28.93 |
| 541629.08 | 4068303.49 | 26.16 | 541470.72 | 4068300.65 | 40.44 |
| 541626.31 | 4068303.37 | 25.47 | 541467.66 | 4068300.71 | 59.45 |
| 541623.36 | 4068303.15 | 18.68 | 541464.84 | 4068300.54 | 78.86 |
| 541620.57 | 4068302.99 | 20.28 | 541461.94 | 4068300.41 | 92.26 |
| 541617.69 | 4068302.71 | 30.89 | 541458.94 | 4068300.33 | 102.37 |
| 541614.14 | 4068302.72 | 49.70 | 541455.86 | 4068300.18 | 121.78 |
| 541611.90 | 4068302.85 | 25.91 | 541452.80 | 4068299.60 | 138.99 |
| 541609.21 | 4068303.00 | 0.51 | 541449.96 | 4068298.79 | 159.00 |
| 541606.30 | 4068303.38 | -34.38 | 541447.09 | 4068299.00 | 167.90 |
| 541603.65 | 4068303.60 | -62.98 | 541444.19 | 4068298.81 | 173.51 |
| 541600.88 | 4068303.69 | -79.57 | 541441.39 | 4068298.22 | 179.22 |
| 541598.29 | 4068304.25 | -103.67 | 541438.57 | 4068297.84 | 181.53 |
| 541595.47 | 4068305.16 | -118.37 | 541435.77 | 4068297.33 | 186.24 |
| 541592.65 | 4068305.73 | -124.77 | 541432.97 | 4068297.18 | 182.15 |
| 541590.23 | 4068306.03 | -132.96 | 541430.22 | 4068297.80 | 173.85 |
| 541587.37 | 4068305.75 | -151.85 | 541427.40 | 4068298.49 | 159.45 |
| 541584.79 | 4068305.16 | -160.35 | 541424.47 | 4068298.59 | 148.46 |
| 541582.22 | 4068304.90 | -170.84 | 541421.67 | 4068298.34 | 138.16 |
| 541579.40 | 4068304.89 | -185.43 | 541418.86 | 4068298.45 | 109.57 |
| 541576.63 | 4068304.36 | -196.42 | 541415.88 | 4068298.75 | 104.48 |
| 541573.83 | 4068304.19 | -206.41 | 541413.04 | 4068298.88 | 90.48 |
| 541570.87 | 4068304.56 | -212.41 | 541410.08 | 4068299.26 | 71.09 |
| 541568.26 | 4068305.58 | -207.61 | 541407.06 | 4068299.41 | 58.99 |
| 541565.23 | 4068306.30 | -195.61 | 541404.29 | 4068299.11 | 45.30 |
| 541562.33 | 4068306.46 | -193.90 | 541401.34 | 4068299.23 | 29.71 |
| 541559.33 | 4068306.59 | -188.00 | 541398.56 | 4068299.30 | 18.91 |
| 541556.45 | 4068306.75 | -178.79 | 541395.71 | 4068299.09 | 8.72 |
| 541553.65 | 4068306.04 | -177.38 | 541392.87 | 4068298.74 | 0.23 |
| 541551.06 | 4068305.50 | -174.57 | 541390.04 | 4068298.35 | -7.06 |
| 541548.21 | 4068304.85 | -179.06 | 541387.20 | 4068298.41 | -20.96 |
| 541545.50 | 4068303.94 | -176.05 | 541384.45 | 4068298.84 | -32.15 |
| 541542.85 | 4068303.13 | -167.94 | 541381.66 | 4068299.22 | -44.95 |
| 541540.43 | 4068302.10 | -169.93 | 541378.69 | 4068299.04 | -45.04 |
| 541537.88 | 4068301.18 | -176.82 | 541375.86 | 4068298.64 | -44.13 |
| 541535.16 | 4068300.80 | -171.91 | 541372.94 | 4068298.56 | -44.52 |
| 541532.37 | 4068300.30 | -167.80 | 541369.93 | 4068298.56 | -38.62 |
| 541529.55 | 4068299.94 | -159.79 | 541366.96 | 4068298.48 | -40.61 |
| 541526.67 | 4068299.71 | -151.98 | 541364.08 | 4068298.06 | -45.90 |
| 541523.85 | 4068299.36 | -132.77 | 541361.23 | 4068297.57 | -41.19 |
| 541521.02 | 4068299.11 | -127.67 | 541358.39 | 4068297.43 | -39.78 |
| 541518.24 | 4068299.39 | -120.86 | 541355.60 | 4068297.62 | -43.68 |
| 541515.31 | 4068299.64 | -107.06 | 541352.83 | 4068297.96 | -45.48 |

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| 541350.21 | 4068297.86 | -45.97 | 541191.69 | 4068299.60 | -210.61 |
| 541347.35 | 4068298.07 | -63.46 | 541188.94 | 4068300.16 | -202.51 |
| 541344.67 | 4068298.10 | -86.06 | 541186.14 | 4068300.25 | -194.01 |
| 541341.85 | 4068298.43 | -105.65 | 541183.41 | 4068300.19 | -183.20 |
| 541339.07 | 4068298.98 | -124.65 | 541180.65 | 4068300.65 | -119.60 |
| 541336.47 | 4068298.95 | -138.64 | 541177.98 | 4068300.52 | -31.69 |
| 541333.56 | 4068298.86 | -164.14 | 541175.45 | 4068300.72 | 36.92 |
| 541331.00 | 4068299.23 | -178.23 | 541172.87 | 4068300.42 | 102.52 |
| 541328.36 | 4068299.49 | -196.53 | 541169.87 | 4068299.96 | -49.37 |
| 541325.78 | 4068298.67 | -207.82 | 541167.27 | 4068299.66 | 0.24 |
| 541323.19 | 4068298.84 | -222.71 | 541164.10 | 4068299.73 | 29.35 |
| 541320.60 | 4068299.36 | -240.91 | 541162.37 | 4068299.84 | -28.25 |
| 541318.01 | 4068299.07 | -264.00 | 541160.34 | 4068300.23 | 89.75 |
| 541315.18 | 4068298.45 | -284.19 | 541157.65 | 4068300.43 | -123.24 |
| 541312.38 | 4068297.76 | -290.08 | 541154.82 | 4068300.81 | 124.06 |
| 541309.79 | 4068297.42 | -292.57 | 541152.36 | 4068301.58 | 110.47 |
| 541306.95 | 4068297.37 | -304.77 | 541149.88 | 4068302.35 | -34.63 |
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| 541298.55 | 4068298.24 | -387.85 | 541142.35 | 4068304.87 | -34.43 |
| 541295.56 | 4068298.36 | -421.25 | 541139.56 | 4068305.07 | 211.47 |
| 541292.53 | 4068298.18 | -445.44 | 541136.95 | 4068305.26 | 368.18 |
| 541289.68 | 4068298.04 | -463.03 | 541135.77 | 4068304.64 | 280.09 |
| 541286.82 | 4068298.30 | -466.82 | 541137.47 | 4068300.69 | 280.40 |
| 541284.04 | 4068298.52 | -438.72 | 541137.71 | 4068298.11 | -241.48 |
| 541279.68 | 4068299.23 | -428.01 | 541138.14 | 4068295.67 | -743.57 |
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| 541275.35 | 4068299.55 | -223.21 | 541139.50 | 4068288.78 | -739.94 |
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| 541244.07 | 4068301.36 | -145.14 | 541144.50 | 4068260.59 | -785.00 |
| 541241.22 | 4068302.02 | -144.44 | 541144.36 | 4068257.99 | -1083.38 |
| 541238.37 | 4068302.33 | -138.14 | 541144.56 | 4068253.76 | -2105.56 |
| 541235.88 | 4068302.69 | -137.93 | 541144.78 | 4068251.13 | -188.65 |
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| 541815.55 | 4068249.39 | -323.77 | 541968.86 | 4068249.68 | -839.43 |
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| 542101.85 | 4068195.03 | -343.34 | 541946.16 | 4068202.08 | -626.82 |
| 542099.33 | 4068195.47 | -376.13 | 541943.33 | 4068202.51 | -592.81 |
| 542096.66 | 4068195.94 | -400.23 | 541940.56 | 4068203.11 | -171.31 |
| 542093.92 | 4068196.12 | 731.28 | 541937.72 | 4068203.29 | 108.60 |
| 542091.16 | 4068196.43 | -370.62 | 541934.96 | 4068203.86 | -390.90 |
| 542088.49 | 4068196.60 | -3441.41 | 541932.14 | 4068203.78 | -318.09 |
| 542085.73 | 4068196.95 | -315.51 | 541929.44 | 4068203.64 | -310.29 |
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| 542058.55 | 4068200.67 | -810.07 | 541902.49 | 4068203.87 | 356.97 |
| 542055.76 | 4068200.77 | -660.36 | 541899.67 | 4068203.73 | 771.38 |
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| 542050.52 | 4068202.70 | -378.26 | 541894.35 | 4068203.50 | 826.49 |
| 542047.79 | 4068203.31 | -341.96 | 541891.79 | 4068202.63 | 366.40 |
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| 542042.21 | 4068203.60 | 476.36 | 541886.84 | 4068200.10 | -96.97 |
| 542039.60 | 4068203.78 | 433.86 | 541884.54 | 4068198.94 | 124.34 |

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| 541881.77 | 4068198.98 | 160.95 | 541733.23 | 4068207.81 | -46.46 |
| 541878.86 | 4068199.03 | -73.55 | 541730.39 | 4068206.94 | -67.65 |
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| 541840.86 | 4068197.09 | -290.95 | 541694.77 | 4068192.02 | -66.09 |
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| 541835.45 | 4068197.22 | -490.34 | 541689.68 | 4068189.07 | -67.46 |
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| 541822.04 | 4068197.77 | -1020.61 | 541676.08 | 4068189.55 | -37.83 |
| 541819.41 | 4068198.15 | -1204.21 | 541673.30 | 4068189.26 | -34.22 |
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| 541804.37 | 4068198.67 | 175.13 | 541657.01 | 4068190.69 | 2.51 |
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| 541800.13 | 4068199.07 | -77.17 | 541651.64 | 4068191.32 | 14.82 |
| 541798.08 | 4068199.20 | -136.66 | 541649.38 | 4068192.32 | 15.82 |
| 541796.09 | 4068199.04 | -129.56 | 541646.62 | 4068193.03 | 11.92 |
| 541794.19 | 4068198.31 | 11.75 | 541643.68 | 4068193.45 | 15.32 |
| 541792.53 | 4068198.46 | 126.15 | 541641.09 | 4068194.06 | 9.82 |
| 541790.36 | 4068198.70 | 202.36 | 541638.37 | 4068194.49 | 4.03 |
| 541788.10 | 4068198.21 | 273.37 | 541635.49 | 4068194.72 | -7.37 |
| 541785.78 | 4068197.05 | 290.48 | 541632.56 | 4068194.99 | -14.46 |
| 541782.95 | 4068196.89 | 274.58 | 541629.78 | 4068194.94 | -30.35 |
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| 541764.25 | 4068203.83 | 132.79 | 541611.56 | 4068196.02 | -181.02 |
| 541761.54 | 4068204.38 | 109.59 | 541608.31 | 4068196.21 | -227.01 |
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| 541741.52 | 4068207.63 | -13.48 | 541588.59 | 4068196.38 | -467.97 |
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| 541566.44 | 4068199.60 | -660.23 | 541404.33 | 4068195.82 | -458.64 |
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| 541555.19 | 4068199.78 | -670.21 | 541393.59 | 4068194.95 | -401.21 |
| 541552.26 | 4068199.66 | -667.50 | 541390.95 | 4068195.09 | -365.41 |
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| 541526.70 | 4068200.56 | -284.35 | 541365.61 | 4068194.95 | -41.35 |
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| 541521.04 | 4068200.80 | -195.44 | 541360.20 | 4068195.10 | -8.24 |
| 541518.01 | 4068200.54 | -147.83 | 541357.47 | 4068195.28 | -19.53 |
| 541514.96 | 4068200.85 | -113.42 | 541354.63 | 4068195.54 | -34.43 |
| 541512.10 | 4068201.05 | -72.82 | 541351.86 | 4068196.12 | -53.12 |
| 541509.25 | 4068200.91 | -35.51 | 541349.06 | 4068196.49 | -81.52 |
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| 541503.83 | 4068200.43 | 20.31 | 541343.62 | 4068197.44 | -148.91 |
| 541501.06 | 4068199.86 | 59.12 | 541340.87 | 4068197.66 | -174.81 |
| 541498.33 | 4068199.58 | 88.22 | 541338.11 | 4068197.73 | -206.00 |
| 541495.45 | 4068199.44 | 116.43 | 541335.38 | 4068197.70 | -240.99 |
| 541492.64 | 4068199.27 | 141.84 | 541332.48 | 4068197.44 | -275.29 |
| 541489.73 | 4068198.85 | 166.55 | 541329.60 | 4068197.31 | -289.78 |
| 541486.70 | 4068198.86 | 183.05 | 541327.10 | 4068197.60 | -296.38 |
| 541483.66 | 4068198.86 | 206.26 | 541324.84 | 4068197.77 | -303.77 |
| 541480.62 | 4068198.56 | 215.87 | 541322.14 | 4068198.00 | -291.17 |
| 541477.68 | 4068198.15 | 207.48 | 541319.62 | 4068198.17 | -252.06 |
| 541474.78 | 4068198.03 | 205.88 | 541316.89 | 4068198.49 | -213.56 |
| 541471.75 | 4068198.02 | 198.49 | 541314.26 | 4068198.52 | -176.15 |
| 541468.84 | 4068197.40 | 180.70 | 541311.72 | 4068198.75 | -140.25 |
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| 541460.20 | 4068197.33 | 92.82 | 541303.97 | 4068200.11 | -45.03 |
| 541457.60 | 4068197.83 | 43.13 | 541301.27 | 4068200.37 | -30.73 |
| 541454.88 | 4068198.66 | -4.87 | 541298.55 | 4068200.55 | -28.23 |
| 541452.27 | 4068199.48 | -45.57 | 541295.83 | 4068200.76 | -21.52 |
| 541449.22 | 4068199.54 | -90.97 | 541293.06 | 4068200.94 | -19.32 |
| 541446.39 | 4068199.94 | -136.56 | 541290.23 | 4068201.05 | -7.41 |
| 541443.30 | 4068200.08 | -169.85 | 541287.46 | 4068200.88 | 7.10 |
| 541440.45 | 4068199.67 | -218.45 | 541284.74 | 4068200.31 | 28.41 |
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| 541431.87 | 4068199.54 | -330.73 | 541276.18 | 4068200.89 | 121.52 |
| 541429.11 | 4068199.06 | -382.92 | 541273.46 | 4068200.86 | 146.33 |
| 541426.39 | 4068199.08 | -433.11 | 541270.95 | 4068201.00 | 153.04 |
| 541423.42 | 4068199.55 | -400.21 | 541268.56 | 4068201.98 | 166.14 |
| 541420.56 | 4068199.05 | -393.90 | 541265.86 | 4068202.43 | 159.94 |

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| 541262.92 | 4068202.27 | 163.85 | 541206.09 | 4068152.26 | -856.05 |
| 541260.09 | 4068202.20 | 151.45 | 541208.69 | 4068151.88 | -517.96 |
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| 541254.30 | 4068201.56 | 125.97 | 541214.23 | 4068152.25 | -283.37 |
| 541251.48 | 4068201.50 | 128.88 | 541216.82 | 4068153.07 | -83.28 |
| 541248.76 | 4068201.40 | 145.18 | 541219.79 | 4068153.83 | 58.91 |
| 541245.94 | 4068201.86 | 164.39 | 541222.10 | 4068154.58 | 136.40 |
| 541243.15 | 4068202.15 | 157.59 | 541224.64 | 4068154.08 | 367.80 |
| 541240.32 | 4068202.47 | 133.70 | 541226.88 | 4068153.38 | 453.99 |
| 541237.54 | 4068203.13 | 95.50 | 541229.04 | 4068153.66 | 550.99 |
| 541234.68 | 4068203.25 | 55.31 | 541231.82 | 4068154.65 | 623.77 |
| 541232.28 | 4068202.12 | 54.92 | 541234.55 | 4068155.04 | 625.37 |
| 541229.77 | 4068201.73 | 79.73 | 541237.31 | 4068154.82 | 587.06 |
| 541227.24 | 4068201.88 | 94.53 | 541240.25 | 4068154.68 | 527.56 |
| 541224.44 | 4068202.04 | 107.04 | 541243.02 | 4068154.23 | 482.45 |
| 541221.67 | 4068202.20 | 134.44 | 541245.86 | 4068153.78 | 454.15 |
| 541218.96 | 4068202.40 | 161.35 | 541248.76 | 4068153.61 | 425.04 |
| 541216.14 | 4068202.75 | 199.25 | 541251.59 | 4068153.71 | 390.04 |
| 541213.36 | 4068202.96 | 236.56 | 541254.39 | 4068153.46 | 356.93 |
| 541211.04 | 4068203.37 | 265.76 | 541257.27 | 4068153.44 | 307.62 |
| 541208.89 | 4068203.51 | 276.86 | 541260.08 | 4068153.41 | 263.52 |
| 541206.40 | 4068204.31 | 314.97 | 541262.89 | 4068153.48 | 237.21 |
| 541203.57 | 4068204.49 | 323.67 | 541265.60 | 4068153.37 | 210.31 |
| 541200.84 | 4068203.90 | 329.98 | 541268.41 | 4068152.86 | 172.40 |
| 541198.12 | 4068204.07 | 251.49 | 541271.20 | 4068152.51 | 126.70 |
| 541195.28 | 4068203.81 | 87.19 | 541273.91 | 4068152.30 | 76.59 |
| 541192.44 | 4068204.18 | 7.40 | 541276.66 | 4068151.98 | 37.69 |
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| 541184.42 | 4068178.71 | -844.95 | 541309.65 | 4068150.38 | -263.88 |
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| 541188.49 | 4068148.73 | -124.29 | 541340.38 | 4068149.64 | 102.75 |
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| 541359.26 | 4068148.31 | -59.18 | 541518.67 | 4068154.80 | -337.58 |
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| 541390.25 | 4068146.76 | -412.85 | 541548.76 | 4068152.07 | -1175.94 |
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| 541408.38 | 4068148.19 | -1098.79 | 541568.74 | 4068149.09 | -874.17 |
| 541411.11 | 4068148.84 | -1178.50 | 541571.58 | 4068148.93 | -850.87 |
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| 541963.56 | 4068050.23 | 109.76 | 542099.68 | 4068035.06 | 76.43 |
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| 541968.99 | 4068050.14 | 184.05 | 542099.98 | 4068029.62 | -59.24 |
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| 541768.28 | 4067994.42 | -542.79 | 541740.61 | 4068087.70 | 250.27 |
| 541765.50 | 4067994.02 | -691.68 | 541741.62 | 4068090.50 | 245.25 |
| 541762.68 | 4067993.56 | -652.07 | 541742.61 | 4068093.44 | 244.44 |
| 541759.93 | 4067993.76 | -793.57 | 541743.54 | 4068096.34 | 235.62 |
| 541757.15 | 4067993.91 | -239.16 | 541744.65 | 4068099.14 | 235.40 |
| 541754.42 | 4067994.21 | -267.36 | 541745.65 | 4068101.94 | 235.48 |
| 541751.60 | 4067994.47 | -548.45 | 541746.48 | 4068104.81 | 230.76 |
| 541748.81 | 4067994.62 | -293.35 | 541747.24 | 4068107.77 | 227.15 |
| 541745.95 | 4067994.75 | -194.64 | 541748.05 | 4068110.73 | 225.13 |
| 541743.27 | 4067994.04 | 388.17 | 541748.89 | 4068113.65 | 228.51 |
| 541740.68 | 4067993.63 | 140.08 | 541749.69 | 4068116.58 | 229.19 |
| 541737.83 | 4067993.89 | 54.28 | 541750.52 | 4068119.48 | 219.08 |
| 541735.26 | 4067994.08 | 117.29 | 541751.23 | 4068122.43 | 213.96 |
| 541732.61 | 4067993.83 | -179.81 | 541752.04 | 4068125.43 | 213.64 |
| 541730.39 | 4067993.56 | -309.70 | 541752.81 | 4068128.52 | 215.12 |
| 541728.35 | 4067993.20 | -123.09 | 541753.88 | 4068131.58 | 211.30 |
| 541726.85 | 4067992.91 | 107.01 | 541755.04 | 4068134.56 | 215.19 |
| 541725.34 | 4067993.54 | 264.21 | 541756.11 | 4068137.33 | 209.47 |
| 541723.14 | 4067994.69 | 646.21 | 541757.03 | 4068140.11 | 199.25 |
| 541720.65 | 4067994.52 | 920.02 | 541758.73 | 4068142.90 | 204.03 |
| 541718.15 | 4067995.05 | 1083.32 | 541760.12 | 4068145.46 | 212.51 |
| 541715.62 | 4067995.83 | 942.52 | 541761.43 | 4068148.17 | 207.20 |
| 541712.75 | 4067996.22 | 777.83 | 541762.61 | 4068151.17 | 201.18 |
| 541710.08 | 4067996.87 | 665.83 | 541763.42 | 4068154.01 | 190.26 |
| 541707.35 | 4067996.66 | 572.24 | 541763.97 | 4068156.89 | 180.44 |
| 541705.30 | 4067997.79 | 497.34 | 541764.73 | 4068159.88 | 184.33 |
| 541706.67 | 4068000.21 | 427.82 | 541765.52 | 4068162.90 | 175.01 |
| 541707.86 | 4068002.66 | 427.90 | 541766.25 | 4068165.91 | 180.19 |
| 541708.92 | 4068005.40 | 426.89 | 541766.98 | 4068168.89 | 184.67 |
| 541709.98 | 4068008.25 | 422.47 | 541767.64 | 4068171.87 | 189.96 |
| 541711.23 | 4068011.10 | 411.05 | 541768.45 | 4068174.77 | 195.84 |
| 541712.23 | 4068014.16 | 396.53 | 541769.13 | 4068177.67 | 196.72 |
| 541713.32 | 4068016.96 | 380.51 | 541769.57 | 4068180.57 | 195.50 |
| 541714.43 | 4068019.84 | 372.30 | 541770.12 | 4068183.58 | 192.59 |
| 541715.49 | 4068022.74 | 359.08 | 541770.71 | 4068186.47 | 186.67 |
| 541716.40 | 4068025.64 | 339.36 | 541771.23 | 4068189.59 | 187.05 |
| 541717.20 | 4068028.59 | 324.04 | 541771.61 | 4068192.63 | 187.33 |
| 541718.10 | 4068031.52 | 305.02 | 541771.97 | 4068195.66 | 186.52 |
| 541719.02 | 4068034.39 | 286.01 | 541772.50 | 4068198.61 | 186.00 |
| 541719.92 | 4068037.29 | 275.09 | 541772.95 | 4068201.59 | 191.38 |
| 541720.97 | 4068039.95 | 260.17 | 541773.46 | 4068204.41 | 184.77 |
| 541722.14 | 4068042.60 | 248.66 | 541774.00 | 4068207.27 | 180.95 |
| 541723.48 | 4068045.33 | 232.34 | 541774.65 | 4068210.23 | 185.43 |
| 541724.72 | 4068048.24 | 227.12 | 541775.25 | 4068213.04 | 185.32 |
| 541725.90 | 4068051.06 | 221.60 | 541776.06 | 4068215.93 | 184.30 |
| 541726.98 | 4068053.82 | 214.59 | 541777.25 | 4068218.72 | 193.98 |
| 541728.36 | 4068056.56 | 213.77 | 541778.52 | 4068221.56 | 185.26 |
| 541729.52 | 4068059.42 | 217.25 | 541779.62 | 4068224.31 | 198.14 |
| 541730.71 | 4068062.26 | 221.33 | 541780.96 | 4068227.30 | 211.22 |
| 541732.06 | 4068064.99 | 227.81 | 541781.89 | 4068230.30 | 223.21 |
| 541733.40 | 4068067.84 | 244.29 | 541782.56 | 4068233.15 | 231.79 |
| 541734.90 | 4068070.45 | 258.68 | 541783.31 | 4068236.05 | 232.37 |
| 541736.09 | 4068073.20 | 263.36 | 541783.71 | 4068239.07 | 203.06 |
| 541737.02 | 4068076.13 | 264.04 | 541784.07 | 4068242.14 | 202.34 |
| 541737.86 | 4068078.90 | 263.02 | 541784.77 | 4068245.11 | 197.92 |
| 541738.79 | 4068081.89 | 263.71 | 541785.09 | 4068248.12 | 199.80 |
| 541739.75 | 4068084.79 | 260.89 | 541785.26 | 4068251.22 | 200.59 |

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| 541785.43 | 4068254.33 | 193.47 | 541850.11 | 4068368.75 | -233.10 |
| 541785.66 | 4068257.37 | 185.45 | 541850.48 | 4068366.17 | -297.78 |
| 541786.10 | 4068260.36 | 186.54 | 541850.79 | 4068363.88 | -187.57 |
| 541786.81 | 4068263.26 | 180.12 | 541851.47 | 4068361.63 | 53.94 |
| 541787.90 | 4068266.04 | 186.50 | 541851.94 | 4068359.41 | 183.65 |
| 541789.31 | 4068268.74 | 186.38 | 541853.00 | 4068357.69 | 38.06 |
| 541790.96 | 4068271.33 | 207.87 | 541853.38 | 4068356.09 | -124.83 |
| 541792.75 | 4068273.78 | 224.95 | 541853.24 | 4068354.52 | -349.63 |
| 541794.47 | 4068276.18 | 248.43 | 541852.02 | 4068352.51 | -505.61 |
| 541795.80 | 4068278.93 | 237.41 | 541849.71 | 4068351.08 | -241.70 |
| 541796.77 | 4068281.82 | 252.29 | 541847.66 | 4068349.40 | -58.49 |
| 541797.28 | 4068284.85 | 233.28 | 541845.38 | 4068348.35 | 140.72 |
| 541797.62 | 4068287.77 | 234.66 | 541842.61 | 4068347.68 | 231.94 |
| 541797.97 | 4068290.67 | 223.44 | 541840.09 | 4068346.25 | -702.65 |
| 541798.56 | 4068293.90 | 201.23 | 541837.56 | 4068344.91 | -1936.74 |
| 541799.10 | 4068297.14 | 203.01 | 541835.26 | 4068342.93 | -1386.32 |
| 541799.61 | 4068300.16 | 257.49 | 541833.12 | 4068341.02 | -560.11 |
| 541800.10 | 4068303.21 | 231.77 | 541830.41 | 4068340.28 | -172.20 |
| 541800.67 | 4068306.09 | 224.46 | 541827.61 | 4068339.50 | 61.81 |
| 541801.95 | 4068308.88 | 195.14 | 541824.78 | 4068339.31 | 177.52 |
| 541803.30 | 4068311.53 | 207.32 | 541822.00 | 4068339.16 | 240.63 |
| 541804.50 | 4068314.29 | 236.80 | 541819.15 | 4068338.68 | 258.44 |
| 541805.88 | 4068317.03 | 237.88 | 541816.42 | 4068337.80 | 255.55 |
| 541807.14 | 4068319.64 | 229.47 | 541813.87 | 4068336.56 | 288.86 |
| 541808.20 | 4068322.23 | 217.25 | 541811.00 | 4068335.70 | 240.37 |
| 541809.49 | 4068325.21 | 228.43 | 541808.06 | 4068335.57 | 208.08 |
| 541810.75 | 4068327.80 | 222.82 | 541805.13 | 4068335.15 | 201.89 |
| 541811.88 | 4068330.79 | 238.50 | 541802.61 | 4068333.85 | 152.60 |
| 541812.88 | 4068333.62 | 230.38 | 541800.93 | 4068331.62 | 59.72 |
| 541813.96 | 4068336.58 | 239.56 | 541799.04 | 4068329.79 | 137.53 |
| 541815.16 | 4068339.41 | 240.44 | 541796.96 | 4068327.87 | 122.45 |
| 541816.24 | 4068342.42 | 223.92 | 541794.84 | 4068326.26 | 153.16 |
| 541817.42 | 4068345.30 | 225.51 | 541792.84 | 4068324.29 | 120.38 |
| 541818.62 | 4068348.05 | 237.79 | 541792.21 | 4068321.62 | 90.79 |
| 541819.43 | 4068350.92 | 242.87 | 541792.30 | 4068318.84 | 89.61 |
| 541820.29 | 4068353.71 | 254.35 | 541792.91 | 4068316.49 | 116.02 |
| 541821.14 | 4068356.42 | 264.44 | 541792.52 | 4068313.80 | 157.83 |
| 541821.76 | 4068359.35 | 279.62 | 541792.93 | 4068311.40 | 109.14 |
| 541822.11 | 4068362.10 | 280.30 | 541793.35 | 4068308.90 | 129.86 |
| 541822.41 | 4068364.95 | 291.89 | 541792.52 | 4068306.71 | 195.47 |
| 541822.49 | 4068367.75 | 292.77 | 541792.23 | 4068304.59 | 161.38 |
| 541822.47 | 4068370.50 | 287.76 | 541792.60 | 4068302.02 | 143.90 |
| 541822.68 | 4068373.39 | 277.94 | 541793.78 | 4068299.66 | 150.01 |
| 541822.72 | 4068376.15 | 257.13 | 541795.05 | 4068297.13 | 170.82 |
| 541822.81 | 4068379.07 | 237.51 | 541795.80 | 4068294.60 | 220.43 |
| 541822.84 | 4068382.19 | 220.49 | 541796.61 | 4068291.87 | 217.64 |
| 541822.94 | 4068385.32 | 198.18 | 541797.25 | 4068288.76 | 209.06 |
| 541823.38 | 4068388.36 | 199.16 | 541798.01 | 4068285.97 | 228.77 |
| 541823.22 | 4068391.17 | 192.34 | 541797.87 | 4068283.06 | 254.79 |
| 541841.39 | 4068388.20 | 376.02 | 541798.44 | 4068280.28 | 195.90 |
| 541841.98 | 4068386.11 | 410.73 | 541800.24 | 4068278.31 | 278.41 |
| 541843.27 | 4068383.57 | 447.74 | 541801.97 | 4068276.37 | 328.71 |
| 541844.60 | 4068380.99 | 481.85 | 541802.67 | 4068273.73 | 366.63 |
| 541845.21 | 4068378.37 | 497.16 | 541802.68 | 4068271.04 | 371.44 |
| 541846.06 | 4068375.61 | 446.48 | 541802.12 | 4068268.32 | 378.45 |
| 541847.75 | 4068373.36 | 284.98 | 541802.35 | 4068265.49 | 362.27 |
| 541849.70 | 4068371.25 | 6.89 | 541802.66 | 4068262.70 | 380.49 |

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| 541802.84 | 4068259.76 | 390.50 | 541798.02 | 4068122.23 | -217.45 |
| 541802.70 | 4068256.86 | 396.22 | 541801.03 | 4068121.81 | -158.85 |
| 541802.96 | 4068253.96 | 387.33 | 541804.01 | 4068121.28 | -58.56 |
| 541803.22 | 4068251.34 | 402.85 | 541807.14 | 4068121.69 | -248.97 |
| 541802.55 | 4068248.62 | 411.76 | 541810.08 | 4068122.27 | -143.57 |
| 541801.72 | 4068245.81 | 427.48 | 541812.96 | 4068122.36 | -179.88 |
| 541801.17 | 4068243.21 | 434.49 | 541816.07 | 4068122.36 | -1778.39 |
| 541800.04 | 4068240.50 | 425.91 | 541819.02 | 4068122.65 | -2515.90 |
| 541799.21 | 4068237.59 | 427.63 | 541822.08 | 4068123.18 | -718.61 |
| 541798.23 | 4068234.96 | 412.44 | 541825.11 | 4068123.50 | -121.02 |
| 541797.07 | 4068232.21 | 399.46 | 541828.14 | 4068123.82 | -524.23 |
| 541796.31 | 4068229.26 | 404.98 | 541830.99 | 4068124.97 | 50.46 |
| 541795.34 | 4068226.43 | 411.40 | 541834.11 | 4068125.47 | -110.25 |
| 541794.41 | 4068223.47 | 411.71 | 541837.18 | 4068125.95 | -178.56 |
| 541793.68 | 4068220.58 | 415.43 | 541840.09 | 4068126.88 | -452.47 |
| 541792.93 | 4068217.65 | 415.75 | 541843.09 | 4068127.30 | -506.58 |
| 541792.47 | 4068214.66 | 415.97 | 541846.03 | 4068127.52 | -428.69 |
| 541791.62 | 4068211.80 | 416.38 | 541848.95 | 4068128.35 | -607.80 |
| 541790.25 | 4068209.10 | 411.80 | 541851.89 | 4068129.22 | -639.11 |
| 541789.08 | 4068206.32 | 385.12 | 541854.90 | 4068129.38 | -479.62 |
| 541787.98 | 4068203.44 | 363.14 | 541857.81 | 4068129.21 | -408.12 |
| 541786.86 | 4068200.64 | 342.46 | 541860.88 | 4068129.02 | -95.73 |
| 541785.96 | 4068197.68 | 322.07 | 541863.89 | 4068128.77 | 36.37 |
| 541785.20 | 4068194.71 | 285.59 | 541866.90 | 4068128.52 | 55.86 |
| 541784.45 | 4068191.74 | 260.71 | 541869.93 | 4068128.49 | 90.75 |
| 541784.10 | 4068188.94 | 252.93 | 541872.94 | 4068128.61 | 504.05 |
| 541783.70 | 4068186.00 | 259.24 | 541876.06 | 4068128.25 | 23.64 |
| 541783.83 | 4068182.97 | 245.46 | 541879.21 | 4068128.91 | -411.27 |
| 541783.83 | 4068180.07 | 260.57 | 541882.11 | 4068129.81 | -92.78 |
| 541783.54 | 4068177.20 | 285.19 | 541885.14 | 4068129.34 | 327.42 |
| 541783.66 | 4068174.27 | 289.40 | 541888.24 | 4068129.07 | 389.61 |
| 541783.54 | 4068171.38 | 269.82 | 541891.36 | 4068129.18 | 237.60 |
| 541783.17 | 4068168.58 | 268.34 | 541894.36 | 4068128.91 | 391.60 |
| 541782.58 | 4068165.77 | 257.65 | 541897.31 | 4068128.35 | 504.79 |
| 541781.97 | 4068162.80 | 227.57 | 541900.00 | 4068127.89 | 240.09 |
| 541781.72 | 4068159.88 | 163.29 | 541901.13 | 4068126.81 | -610.41 |
| 541780.97 | 4068157.34 | 42.40 | 541901.10 | 4068124.70 | -105.90 |
| 541780.06 | 4068154.89 | -56.98 | 541901.62 | 4068122.24 | 340.12 |
| 541779.45 | 4068152.03 | -125.36 | 541903.04 | 4068119.96 | 949.02 |
| 541779.07 | 4068149.28 | 16.85 | 541903.57 | 4068117.46 | 583.04 |
| 541778.11 | 4068146.67 | 450.37 | 541903.61 | 4068115.01 | -19.65 |
| 541777.19 | 4068144.11 | 791.28 | 541903.65 | 4068112.43 | -23.84 |
| 541776.47 | 4068141.40 | 997.20 | 541904.38 | 4068109.67 | 1258.48 |
| 541775.60 | 4068138.88 | 957.01 | 541906.08 | 4068107.67 | -214.42 |
| 541775.34 | 4068136.04 | 915.63 | 541906.18 | 4068105.18 | -2209.90 |
| 541775.45 | 4068133.32 | 1000.15 | 541906.22 | 4068102.60 | -2370.69 |
| 541775.47 | 4068130.52 | 1016.96 | 541905.76 | 4068100.08 | -786.47 |
| 541776.14 | 4068127.90 | 933.97 | 541906.36 | 4068097.57 | -533.86 |
| 541777.56 | 4068126.39 | 916.18 | 541907.45 | 4068095.33 | -1895.85 |
| 541779.01 | 4068125.46 | 834.88 | 541908.26 | 4068092.66 | -910.04 |
| 541781.03 | 4068124.06 | 378.68 | 541908.98 | 4068090.21 | 121.07 |
| 541782.89 | 4068122.64 | 23.89 | 541909.53 | 4068087.79 | -745.72 |
| 541784.72 | 4068120.79 | 527.49 | 541909.91 | 4068085.40 | -588.30 |
| 541787.38 | 4068120.79 | 74.78 | 541910.40 | 4068082.73 | -277.29 |
| 541789.88 | 4068121.27 | -29.52 | 541910.82 | 4068080.13 | -626.88 |
| 541792.56 | 4068122.03 | -82.23 | 541911.46 | 4068077.54 | -489.87 |
| 541795.31 | 4068122.68 | -190.74 | 541912.86 | 4068074.92 | -512.65 |

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| 541913.90 | 4068072.36 | -441.94 | 541813.75 | 4068023.39 | -235.95 |
| 541915.02 | 4068070.01 | -423.63 | 541810.88 | 4068023.92 | -278.95 |
| 541916.28 | 4068067.29 | 135.98 | 541807.97 | 4068023.67 | -203.94 |
| 541917.87 | 4068064.95 | 765.09 | 541805.40 | 4068023.87 | -114.73 |
| 541919.71 | 4068062.81 | 868.50 | 541802.64 | 4068024.36 | -50.93 |
| 541921.26 | 4068060.43 | -228.20 | 541799.98 | 4068024.32 | -87.62 |
| 541921.95 | 4068057.90 | -775.68 | 541797.35 | 4068024.49 | -152.02 |
| 541921.30 | 4068055.40 | -480.97 | 541794.76 | 4068024.33 | -252.01 |
| 541920.39 | 4068052.82 | 10.55 | 541792.19 | 4068024.28 | -314.31 |
| 541919.64 | 4068050.03 | -261.14 | 541789.61 | 4068023.85 | -568.30 |
| 541918.15 | 4068047.77 | -721.02 | 541786.98 | 4068023.72 | -498.59 |
| 541916.77 | 4068045.42 | -52.60 | 541784.33 | 4068024.05 | -415.39 |
| 541915.58 | 4068042.82 | -53.69 | 541781.64 | 4068024.71 | -461.28 |
| 541914.78 | 4068040.15 | 103.93 | 541779.07 | 4068024.90 | -681.18 |
| 541914.34 | 4068037.48 | 103.84 | 541775.26 | 4068025.49 | -634.47 |
| 541913.31 | 4068034.95 | 195.46 | 541773.90 | 4068025.63 | -340.77 |
| 541913.18 | 4068032.22 | 55.98 | 541771.40 | 4068025.91 | -215.27 |
| 541912.69 | 4068029.60 | 80.09 | 541768.93 | 4068026.46 | 230.74 |
| 541912.64 | 4068027.36 | 101.40 | 541766.45 | 4068027.16 | 298.14 |
| 541911.78 | 4068024.44 | -36.18 | 541763.99 | 4068027.37 | 285.24 |
| 541910.78 | 4068022.02 | -362.17 | 541761.43 | 4068027.64 | 245.25 |
| 541906.97 | 4068022.75 | 152.14 | 541758.82 | 4068027.47 | -46.25 |
| 541905.82 | 4068022.95 | 179.54 | 541756.43 | 4068027.96 | -265.74 |
| 541903.10 | 4068023.22 | 275.45 | 541753.99 | 4068028.36 | -293.54 |
| 541900.29 | 4068023.32 | 13.65 | 541750.82 | 4068028.41 | -393.63 |
| 541897.48 | 4068022.73 | 141.26 | 541750.13 | 4068028.58 | -759.33 |
| 541893.39 | 4068023.52 | 129.27 | 541748.51 | 4068028.52 | -584.13 |
| 541892.02 | 4068023.54 | -13.53 | 541746.93 | 4068028.59 | -58.83 |
| 541889.15 | 4068023.44 | 122.78 | 541744.85 | 4068028.77 | 34.98 |
| 541886.54 | 4068023.38 | 115.78 | 541742.64 | 4068028.30 | 58.89 |
| 541883.76 | 4068023.31 | 50.29 | 541740.43 | 4068027.09 | 155.60 |
| 541881.17 | 4068022.73 | -131.20 | 541737.91 | 4068027.15 | 327.30 |
| 541878.36 | 4068022.87 | 131.81 | 541735.40 | 4068026.96 | 456.21 |
| 541875.70 | 4068023.29 | 230.11 | 541732.94 | 4068026.94 | 579.12 |
| 541872.88 | 4068023.62 | -65.99 | 541730.52 | 4068027.07 | 610.92 |
| 541869.97 | 4068023.41 | -39.78 | 541727.80 | 4068027.88 | 559.02 |
| 541867.10 | 4068023.40 | -384.87 | 541725.27 | 4068027.02 | 526.73 |
| 541864.37 | 4068023.51 | -404.37 | 541722.79 | 4068027.25 | 470.14 |
| 541861.54 | 4068023.61 | -252.66 | 541719.93 | 4068027.60 | 403.94 |
| 541858.83 | 4068024.34 | -334.46 | 541717.09 | 4068027.95 | 346.95 |
| 541856.27 | 4068023.91 | -253.35 | 541714.26 | 4068027.93 | 302.55 |
| 541852.52 | 4068022.87 | -403.54 | 541711.82 | 4068028.62 | 279.26 |
| 541851.36 | 4068022.91 | -434.63 | 541709.24 | 4068029.15 | 247.36 |
| 541848.72 | 4068022.79 | -257.53 | 541706.70 | 4068029.92 | 194.86 |
| 541846.18 | 4068021.61 | -586.72 | 541703.67 | 4068030.10 | 158.57 |
| 541843.80 | 4068020.38 | -708.40 | 541700.67 | 4068030.25 | 146.97 |
| 541839.97 | 4068020.61 | -565.89 | 541697.98 | 4068029.37 | 118.88 |
| 541838.55 | 4068020.60 | -490.09 | 541695.35 | 4068028.92 | 105.69 |
| 541836.15 | 4068021.09 | -305.99 | 541692.79 | 4068028.43 | 89.80 |
| 541833.27 | 4068021.16 | 287.42 | 541689.98 | 4068028.16 | 70.71 |
| 541830.82 | 4068021.76 | 461.82 | 541687.29 | 4068027.71 | 55.82 |
| 541828.65 | 4068022.70 | 330.62 | 541684.68 | 4068026.92 | 45.43 |
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| 541959.63 | 4068654.41 | -271.59 | 542100.84 | 4068632.35 | 100.41 |
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| 542013.45 | 4068653.38 | -443.71 | 542102.30 | 4068596.67 | -406.50 |
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| 542024.54 | 4068597.30 | -395.93 | 541864.89 | 4068599.35 | 347.03 |
| 542021.71 | 4068597.50 | -400.52 | 541862.01 | 4068599.49 | 327.73 |
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| 542013.38 | 4068598.17 | -311.11 | 541853.22 | 4068598.86 | 223.06 |
| 542010.58 | 4068598.79 | -279.01 | 541850.90 | 4068599.72 | 190.76 |
| 542007.95 | 4068598.90 | -253.70 | 541848.60 | 4068600.12 | 166.86 |
| 542004.88 | 4068598.87 | -251.09 | 541845.70 | 4068600.07 | 118.57 |
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| 541932.78 | 4068596.71 | -602.01 | 541775.51 | 4068601.41 | -227.28 |
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| 541667.54 | 4068603.38 | -169.64 | 541499.53 | 4068601.63 | -324.35 |
| 541664.38 | 4068603.90 | -161.44 | 541496.62 | 4068601.65 | -335.54 |
| 541661.42 | 4068604.35 | -160.13 | 541493.96 | 4068601.13 | -330.53 |
| 541658.63 | 4068604.80 | -153.83 | 541492.26 | 4068600.24 | -333.13 |
| 541655.62 | 4068605.01 | -160.03 | 541491.97 | 4068598.29 | -332.61 |
| 541652.77 | 4068604.51 | -160.52 | 541492.12 | 4068596.17 | -330.60 |
| 541649.67 | 4068604.41 | -163.81 | 541492.65 | 4068593.52 | -326.29 |
| 541646.64 | 4068604.24 | -160.00 | 541492.73 | 4068590.68 | -319.77 |
| 541643.74 | 4068604.59 | -155.30 | 541493.03 | 4068587.76 | -309.36 |
| 541640.84 | 4068604.30 | -159.19 | 541493.93 | 4068585.11 | -294.25 |
| 541637.84 | 4068603.98 | -158.38 | 541494.85 | 4068582.49 | -288.74 |
| 541634.69 | 4068603.94 | -162.47 | 541495.26 | 4068579.64 | -280.82 |
| 541631.54 | 4068603.90 | -165.86 | 541495.60 | 4068576.98 | -275.51 |
| 541628.58 | 4068604.33 | -181.06 | 541496.15 | 4068574.16 | -274.89 |
| 541625.54 | 4068604.80 | -168.56 | 541496.43 | 4068571.14 | -266.08 |
| 541622.51 | 4068605.44 | -177.65 | 541496.76 | 4068568.32 | -257.26 |
| 541619.61 | 4068605.65 | -166.05 | 541497.50 | 4068565.39 | -262.65 |
| 541616.51 | 4068605.63 | -173.24 | 541497.54 | 4068562.53 | -267.23 |
| 541613.58 | 4068605.56 | -169.83 | 541497.54 | 4068559.57 | -260.52 |
| 541610.48 | 4068605.46 | -178.02 | 541497.71 | 4068556.70 | -254.40 |
| 541607.75 | 4068604.47 | -182.41 | 541497.52 | 4068553.73 | -253.69 |
| 541605.23 | 4068603.26 | -183.80 | 541497.60 | 4068550.51 | -254.17 |
| 541602.26 | 4068602.68 | -195.39 | 541498.69 | 4068548.21 | -251.76 |
| 541599.17 | 4068602.54 | -203.18 | 541498.96 | 4068548.10 | -245.36 |
| 541596.30 | 4068602.67 | -199.98 | 541503.28 | 4068546.00 | -247.76 |
| 541593.17 | 4068602.67 | -211.47 | 541506.19 | 4068545.70 | -248.36 |
| 541589.87 | 4068602.53 | -214.06 | 541509.14 | 4068546.18 | -245.77 |
| 541586.84 | 4068602.54 | -213.65 | 541511.86 | 4068547.16 | -247.08 |

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| 541514.87 | 4068547.71 | -248.59 | 541678.42 | 4068546.15 | -169.76 |
| 541517.57 | 4068547.10 | -246.90 | 541681.37 | 4068547.33 | -177.17 |
| 541520.33 | 4068546.35 | -251.90 | 541684.36 | 4068547.74 | -174.18 |
| 541523.22 | 4068546.52 | -250.21 | 541687.43 | 4068548.23 | -176.29 |
| 541526.07 | 4068546.22 | -253.81 | 541690.32 | 4068548.79 | -173.60 |
| 541529.01 | 4068546.20 | -253.12 | 541693.01 | 4068549.00 | -178.11 |
| 541531.93 | 4068546.11 | -256.62 | 541696.10 | 4068549.16 | -181.32 |
| 541534.80 | 4068546.11 | -260.23 | 541698.69 | 4068549.09 | -188.32 |
| 541537.83 | 4068546.02 | -263.74 | 541701.49 | 4068548.75 | -189.83 |
| 541540.76 | 4068546.37 | -261.65 | 541704.26 | 4068548.63 | -190.03 |
| 541543.70 | 4068547.04 | -261.16 | 541707.08 | 4068547.72 | -194.73 |
| 541546.38 | 4068548.43 | -261.97 | 541709.50 | 4068546.56 | -190.83 |
| 541548.86 | 4068549.96 | -262.78 | 541712.38 | 4068545.82 | -186.64 |
| 541551.64 | 4068550.91 | -264.19 | 541715.29 | 4068545.12 | -190.04 |
| 541554.05 | 4068552.74 | -264.01 | 541718.03 | 4068544.27 | -188.14 |
| 541556.74 | 4068553.84 | -264.82 | 541720.80 | 4068543.59 | -189.04 |
| 541559.70 | 4068554.36 | -263.43 | 541723.65 | 4068542.97 | -187.15 |
| 541562.64 | 4068554.93 | -261.74 | 541726.39 | 4068543.32 | -187.05 |
| 541565.68 | 4068555.31 | -258.65 | 541728.94 | 4068544.10 | -193.86 |
| 541568.67 | 4068555.87 | -255.56 | 541731.69 | 4068545.12 | -193.28 |
| 541571.60 | 4068555.84 | -245.37 | 541734.42 | 4068546.05 | -186.29 |
| 541574.08 | 4068555.89 | -247.97 | 541736.98 | 4068545.94 | -176.19 |
| 541577.12 | 4068555.66 | -250.68 | 541739.75 | 4068546.15 | -199.30 |
| 541580.23 | 4068555.82 | -248.89 | 541742.60 | 4068546.59 | -191.01 |
| 541583.09 | 4068555.74 | -244.99 | 541745.24 | 4068546.60 | -182.22 |
| 541586.14 | 4068555.40 | -244.20 | 541748.01 | 4068547.09 | -184.32 |
| 541588.82 | 4068555.93 | -244.71 | 541750.76 | 4068547.27 | -189.43 |
| 541591.53 | 4068556.24 | -206.01 | 541753.88 | 4068547.63 | -191.74 |
| 541594.44 | 4068555.70 | -220.42 | 541756.67 | 4068548.54 | -186.95 |
| 541597.43 | 4068554.90 | -214.62 | 541759.62 | 4068549.11 | -190.96 |
| 541600.35 | 4068554.48 | -210.73 | 541762.32 | 4068549.40 | -188.27 |
| 541603.43 | 4068554.40 | -207.73 | 541765.38 | 4068549.21 | -191.48 |
| 541606.45 | 4068554.34 | -207.64 | 541768.43 | 4068549.08 | -188.08 |
| 541609.35 | 4068554.16 | -199.44 | 541771.35 | 4068549.70 | -182.89 |
| 541612.62 | 4068553.58 | -198.65 | 541774.23 | 4068549.90 | -185.00 |
| 541615.73 | 4068553.68 | -182.86 | 541777.45 | 4068550.00 | -184.11 |
| 541618.77 | 4068553.35 | -175.86 | 541780.27 | 4068550.52 | -184.82 |
| 541621.47 | 4068552.82 | -170.66 | 541782.91 | 4068549.67 | -175.42 |
| 541624.24 | 4068551.79 | -166.87 | 541785.63 | 4068549.61 | -186.92 |
| 541627.20 | 4068550.78 | -170.57 | 541788.25 | 4068550.25 | -184.93 |
| 541630.17 | 4068549.67 | -167.67 | 541791.16 | 4068550.46 | -178.44 |
| 541633.29 | 4068549.04 | -168.47 | 541793.90 | 4068550.66 | -167.35 |
| 541636.30 | 4068548.38 | -166.38 | 541796.69 | 4068550.99 | -162.86 |
| 541638.79 | 4068546.97 | -158.87 | 541799.62 | 4068551.39 | -155.97 |
| 541641.70 | 4068546.16 | -158.98 | 541801.82 | 4068550.73 | -152.37 |
| 541644.30 | 4068545.64 | -156.78 | 541804.07 | 4068549.76 | -161.77 |
| 541646.87 | 4068545.11 | -167.18 | 541806.95 | 4068549.09 | -154.47 |
| 541649.75 | 4068545.05 | -157.49 | 541809.09 | 4068549.97 | -128.38 |
| 541652.48 | 4068544.20 | -154.59 | 541812.03 | 4068550.31 | -118.09 |
| 541655.32 | 4068543.29 | -156.19 | 541814.90 | 4068550.24 | -103.10 |
| 541658.19 | 4068542.65 | -163.19 | 541817.80 | 4068549.17 | -90.09 |
| 541661.04 | 4068542.75 | -159.70 | 541820.76 | 4068548.36 | -67.90 |
| 541663.88 | 4068543.12 | -161.81 | 541823.56 | 4068548.57 | -47.91 |
| 541666.75 | 4068543.71 | -165.72 | 541826.65 | 4068548.72 | -31.41 |
| 541669.62 | 4068544.20 | -163.83 | 541829.56 | 4068548.27 | -2.42 |
| 541672.58 | 4068544.52 | -166.84 | 541832.03 | 4068547.40 | 25.68 |
| 541675.58 | 4068545.29 | -173.65 | 541834.56 | 4068547.12 | 51.98 |

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| 541837.39 | 4068546.22 | 85.28 | 542007.47 | 4068548.03 | -250.52 |
| 541840.33 | 4068545.44 | 115.77 | 542010.25 | 4068547.99 | -255.13 |
| 541843.32 | 4068545.61 | 149.57 | 542013.01 | 4068548.06 | -282.24 |
| 541846.21 | 4068546.07 | 181.06 | 542015.81 | 4068547.90 | -304.54 |
| 541849.26 | 4068546.37 | 220.45 | 542018.55 | 4068548.64 | -334.25 |
| 541852.25 | 4068546.45 | 259.04 | 542021.32 | 4068548.61 | -360.96 |
| 541855.09 | 4068546.22 | 292.44 | 542024.07 | 4068549.16 | -390.97 |
| 541858.06 | 4068546.17 | 325.83 | 542026.11 | 4068548.70 | -388.67 |
| 541861.13 | 4068546.53 | 349.72 | 542028.49 | 4068548.45 | -417.57 |
| 541864.09 | 4068546.95 | 356.71 | 542031.15 | 4068548.43 | -423.68 |
| 541867.20 | 4068547.19 | 349.60 | 542034.18 | 4068548.98 | -478.49 |
| 541870.51 | 4068547.51 | 328.89 | 542036.72 | 4068549.71 | -537.10 |
| 541873.58 | 4068548.49 | 265.48 | 542038.71 | 4068549.90 | -546.11 |
| 541876.59 | 4068549.67 | 154.57 | 542040.82 | 4068550.84 | -613.72 |
| 541879.36 | 4068550.60 | -32.24 | 542042.88 | 4068550.70 | -663.72 |
| 541882.41 | 4068550.54 | -262.35 | 542043.40 | 4068550.18 | -656.52 |
| 541885.37 | 4068549.79 | -432.35 | 542044.23 | 4068548.67 | -656.11 |
| 541888.50 | 4068549.64 | -545.46 | 542044.82 | 4068548.62 | -640.81 |
| 541891.66 | 4068549.71 | -588.57 | 542045.84 | 4068549.35 | -621.32 |
| 541894.74 | 4068549.42 | -600.07 | 542046.87 | 4068550.14 | -619.43 |
| 541897.88 | 4068549.38 | -584.38 | 542048.48 | 4068550.30 | -620.53 |
| 541901.06 | 4068550.03 | -588.69 | 542050.70 | 4068550.74 | -623.34 |
| 541904.40 | 4068550.56 | -532.20 | 542053.67 | 4068551.07 | -616.15 |
| 541907.49 | 4068550.23 | -521.81 | 542056.80 | 4068551.22 | -609.75 |
| 541910.51 | 4068551.10 | -523.82 | 542059.82 | 4068551.18 | -595.66 |
| 541913.23 | 4068550.54 | -519.62 | 542063.01 | 4068551.52 | -531.17 |
| 541916.41 | 4068550.34 | -546.93 | 542066.20 | 4068551.45 | -419.58 |
| 541919.32 | 4068551.17 | -591.24 | 542069.27 | 4068552.48 | -300.59 |
| 541923.56 | 4068550.53 | -639.35 | 542071.91 | 4068553.42 | -191.80 |
| 541925.17 | 4068550.66 | -698.85 | 542075.13 | 4068553.01 | -96.81 |
| 541928.12 | 4068551.66 | -736.76 | 542078.28 | 4068552.68 | -32.21 |
| 541930.70 | 4068552.83 | -774.07 | 542081.48 | 4068552.58 | -7.22 |
| 541933.68 | 4068552.74 | -805.48 | 542084.60 | 4068552.98 | -1.83 |
| 541936.85 | 4068552.98 | -837.49 | 542087.49 | 4068553.27 | -51.23 |
| 541939.87 | 4068553.20 | -862.60 | 542090.58 | 4068553.00 | -99.34 |
| 541942.95 | 4068553.22 | -874.30 | 542093.51 | 4068552.54 | -149.65 |
| 541946.04 | 4068553.11 | -879.11 | 542096.42 | 4068552.37 | -174.15 |
| 541949.08 | 4068552.68 | -876.62 | 542097.80 | 4068549.55 | -214.54 |
| 541952.03 | 4068552.13 | -868.42 | 542098.62 | 4068546.99 | -223.63 |
| 541955.02 | 4068551.65 | -872.62 | 542099.50 | 4068544.29 | -217.81 |
| 541958.00 | 4068551.35 | -869.33 | 542100.00 | 4068541.42 | -234.90 |
| 541960.80 | 4068551.59 | -850.14 | 542100.32 | 4068538.56 | -249.49 |
| 541963.56 | 4068551.32 | -835.34 | 542100.22 | 4068535.60 | -283.07 |
| 541966.47 | 4068550.89 | -822.25 | 542100.43 | 4068532.56 | -322.55 |
| 541969.23 | 4068550.31 | -807.25 | 542101.46 | 4068529.77 | -346.14 |
| 541972.22 | 4068550.06 | -788.95 | 542102.61 | 4068526.91 | -352.33 |
| 541975.07 | 4068549.22 | -774.36 | 542103.17 | 4068523.93 | -371.51 |
| 541978.20 | 4068549.14 | -741.46 | 542103.06 | 4068520.75 | -381.90 |
| 541981.12 | 4068549.30 | -646.17 | 542103.01 | 4068517.73 | -395.48 |
| 541984.20 | 4068549.30 | -549.38 | 542102.84 | 4068514.66 | -437.66 |
| 541987.20 | 4068548.74 | -439.98 | 542102.81 | 4068511.52 | -518.95 |
| 541989.90 | 4068547.56 | -384.48 | 542102.64 | 4068508.39 | -569.93 |
| 541992.93 | 4068546.92 | -358.88 | 542103.32 | 4068505.39 | -500.91 |
| 541996.03 | 4068546.56 | -342.19 | 542103.88 | 4068502.39 | -418.30 |
| 541999.07 | 4068546.49 | -308.10 | 542102.81 | 4068500.92 | -339.49 |
| 542002.07 | 4068546.62 | -277.10 | 542099.53 | 4068501.62 | -245.58 |
| 542004.89 | 4068547.37 | -257.41 | 542096.70 | 4068501.74 | -249.08 |

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| 542093.58 | 4068501.53 | -255.87 | 541934.62 | 4068495.99 | -889.58 |
| 542090.57 | 4068501.02 | -310.36 | 541931.95 | 4068496.47 | -893.47 |
| 542087.57 | 4068500.04 | -360.55 | 541929.27 | 4068497.30 | -879.37 |
| 542084.84 | 4068498.75 | -367.54 | 541926.60 | 4068497.29 | -850.87 |
| 542081.97 | 4068498.35 | -339.03 | 541923.95 | 4068497.22 | -856.26 |
| 542078.87 | 4068498.55 | -329.42 | 541921.42 | 4068497.49 | -854.45 |
| 542075.80 | 4068497.73 | -312.61 | 541918.28 | 4068497.95 | -876.65 |
| 542072.92 | 4068496.61 | -349.40 | 541915.32 | 4068498.17 | -850.94 |
| 542070.04 | 4068495.37 | -319.08 | 541912.65 | 4068498.94 | -817.84 |
| 542067.07 | 4068494.83 | -228.17 | 541909.76 | 4068499.60 | -787.84 |
| 542063.94 | 4068494.66 | -347.26 | 541906.77 | 4068500.15 | -755.43 |
| 542060.85 | 4068494.69 | -246.96 | 541903.69 | 4068500.36 | -748.23 |
| 542057.87 | 4068494.44 | -221.75 | 541900.79 | 4068500.13 | -747.02 |
| 542054.96 | 4068493.67 | -207.24 | 541897.86 | 4068499.73 | -715.11 |
| 542052.20 | 4068494.00 | -257.63 | 541895.03 | 4068499.04 | -686.60 |
| 542049.17 | 4068493.44 | -236.13 | 541892.33 | 4068498.33 | -656.89 |
| 542046.52 | 4068493.77 | -238.22 | 541889.60 | 4068498.39 | -638.39 |
| 542043.87 | 4068494.98 | -409.22 | 541886.56 | 4068498.41 | -631.38 |
| 542041.10 | 4068495.96 | -605.82 | 541883.72 | 4068497.91 | -603.57 |
| 542038.18 | 4068496.73 | -562.82 | 541881.29 | 4068496.84 | -597.46 |
| 542035.23 | 4068496.90 | -648.11 | 541878.68 | 4068496.24 | -576.25 |
| 542032.44 | 4068497.51 | -682.91 | 541875.72 | 4068496.50 | -531.64 |
| 542029.48 | 4068497.80 | -725.50 | 541872.73 | 4068496.75 | -504.44 |
| 542026.75 | 4068497.80 | -869.30 | 541870.00 | 4068496.34 | -517.53 |
| 542024.46 | 4068498.87 | -994.90 | 541867.23 | 4068496.89 | -62.83 |
| 542021.81 | 4068499.67 | -1177.40 | 541864.56 | 4068497.20 | -90.92 |
| 542019.08 | 4068499.78 | -1198.79 | 541861.94 | 4068497.88 | 15.08 |
| 542016.69 | 4068499.83 | -1181.68 | 541859.24 | 4068498.79 | 197.28 |
| 542014.63 | 4068499.39 | -1161.18 | 541856.81 | 4068499.70 | 335.58 |
| 542012.58 | 4068498.37 | -1123.17 | 541854.22 | 4068500.35 | 405.28 |
| 542010.01 | 4068498.01 | -916.26 | 541851.46 | 4068499.88 | 393.69 |
| 542007.41 | 4068497.51 | -523.75 | 541849.34 | 4068498.25 | 384.71 |
| 542005.15 | 4068497.08 | -350.44 | 541846.93 | 4068496.82 | 362.12 |
| 542002.40 | 4068496.78 | -457.44 | 541845.11 | 4068494.44 | 335.94 |
| 542000.25 | 4068495.91 | -565.93 | | | |
| 541998.46 | 4068495.38 | -563.92 | | | |
| 541996.11 | 4068495.62 | -551.01 | | | |
| 541993.28 | 4068495.37 | -586.51 | | | |
| 541990.43 | 4068494.76 | -668.60 | | | |
| 541987.45 | 4068494.23 | -730.79 | | | |
| 541984.39 | 4068494.71 | -751.68 | | | |
| 541981.39 | 4068495.42 | -756.68 | | | |
| 541978.39 | 4068495.84 | -735.18 | | | |
| 541975.29 | 4068496.10 | -722.97 | | | |
| 541972.12 | 4068496.09 | -712.66 | | | |
| 541969.02 | 4068495.81 | -708.75 | | | |
| 541965.86 | 4068496.46 | -698.75 | | | |
| 541962.80 | 4068496.08 | -711.74 | | | |
| 541960.08 | 4068494.48 | -598.53 | | | |
| 541957.26 | 4068493.68 | -717.92 | | | |
| 541954.23 | 4068492.86 | -763.40 | | | |
| 541951.23 | 4068492.08 | -822.69 | | | |
| 541948.21 | 4068492.02 | -859.49 | | | |
| 541945.28 | 4068492.71 | -866.98 | | | |
| 541942.37 | 4068493.49 | -861.98 | | | |
| 541939.70 | 4068494.25 | -855.98 | | | |
| 541937.31 | 4068495.65 | -864.98 | | | |

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The following is magnetic drift data collected at a base station magnetometer during the time of magnetic and EM data collection. The data were collected using a Geometrics G-856 base station magnetometer. Data have the following format.

Line number: always 0
Date: April 6 = 112, April 7 = 113
Time: local time in hours, minutes and seconds

Reading number
Magnetic reading - nanoTelsas/10

Note: a ? Indicates a reading collected in high gradient filed, usually the first or last several readings when someone is in close proximity to the base station magnetometer.

Data:

| | |
|----------------|-----------|
| * 0 112 085106 | 0?194399 |
| * 0 112 085230 | 1 510912 |
| * 0 112 085300 | 2 510936 |
| * 0 112 085330 | 3 510931 |
| * 0 112 085400 | 4 510934 |
| * 0 112 085430 | 5 510934 |
| * 0 112 085500 | 6 510928 |
| * 0 112 085530 | 7 510926 |
| * 0 112 085600 | 8 510927 |
| * 0 112 085630 | 9 510923 |
| * 0 112 085700 | 10 510924 |
| * 0 112 085730 | 11 510920 |
| * 0 112 085800 | 12 510919 |
| * 0 112 085830 | 13 510918 |
| * 0 112 085900 | 14 510919 |
| * 0 112 085930 | 15 510916 |
| * 0 112 090000 | 16 510915 |
| * 0 112 090030 | 17 510914 |
| * 0 112 090100 | 18 510912 |
| * 0 112 090130 | 19 510911 |
| * 0 112 090200 | 20 510905 |
| * 0 112 090230 | 21 510907 |
| * 0 112 090300 | 22 510909 |
| * 0 112 090330 | 23 510909 |
| * 0 112 090400 | 24 510907 |
| * 0 112 090430 | 25 510908 |
| * 0 112 090500 | 26 510912 |
| * 0 112 090530 | 27 510912 |
| * 0 112 090600 | 28 510912 |
| * 0 112 090630 | 29 510925 |
| * 0 112 090700 | 30 510927 |

| | |
|----------------|-----------|
| * 0 112 090730 | 31 510924 |
| * 0 112 090800 | 32 510923 |
| * 0 112 090830 | 33 510923 |
| * 0 112 090900 | 34 510919 |
| * 0 112 090930 | 35 510916 |
| * 0 112 091000 | 36 510916 |
| * 0 112 091030 | 37 510915 |
| * 0 112 091100 | 38 510913 |
| * 0 112 091130 | 39 510911 |
| * 0 112 091200 | 40 510910 |
| * 0 112 091230 | 41 510909 |
| * 0 112 091300 | 42 510908 |
| * 0 112 091330 | 43 510911 |
| * 0 112 091400 | 44 510908 |
| * 0 112 091430 | 45 510907 |
| * 0 112 091500 | 46 510906 |
| * 0 112 091530 | 47 510902 |
| * 0 112 091600 | 48 510903 |
| * 0 112 091630 | 49 510900 |
| * 0 112 091700 | 50 510897 |
| * 0 112 091730 | 51 510894 |
| * 0 112 091800 | 52 510892 |
| * 0 112 091830 | 53 510890 |
| * 0 112 091900 | 54 510889 |
| * 0 112 091930 | 55 510889 |
| * 0 112 092000 | 56 510888 |
| * 0 112 092030 | 57 510889 |
| * 0 112 092100 | 58 510887 |
| * 0 112 092130 | 59 510887 |
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Chuck Connor CC
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