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Final Report

Analysis of the "Near-Miss" Data from the TravTek Operational Test

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16. Abstract <p>The purpose of this project was to develop a knowledge-base of "near-miss" information from the TravTek Camera Car Study. The study investigated the current state of knowledge associated with near-miss analyses, including the Traffic Conflict Technique (TCT), to determine the degree to which the techniques would be useful for the analysis of in-vehicle-generated near-miss data, and the degree of compatibility that could be developed between vehicle-borne and static position-borne data collection techniques.</p> <p>No crashes resulted during the TravTek Camera Car Study. Therefore, the analysis is based on the 38 near-miss events and safety-related errors. Errors were classified across different levels of potential severity, environmental proximity, and whether they were directly caused by use of a navigational device. Specific measures of performance were also taken for defined error types such as land deviations and braking errors. The results of the analysis showed that there were considerably more safety-related errors in some of the conditions tested.</p> <p>Given the small sample of TravTek near-misses overall and other issues, estimation of crash rates was deemed inappropriate. Although crash rates could not be predicted, the methodology developed by this project does provide a means for comparison of near-miss data between techniques as additional data are collected in a similar format.</p> <p>Based on the results of the literature review and analysis of the TravTek near-miss database created as part of this project, the utilization of near-miss/traffic conflict data to improve the predictive capability of proactive safety evaluation appears to have merit.</p>			
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EXECUTIVE SUMMARY

The purpose of this project was to develop a knowledge-base of “near-miss” information from the TravTek Camera Car Study. The study investigated the current state of knowledge associated with near-miss analyses, including the Traffic Conflict Technique (TCT), to determine (1) the degree to which the techniques would be useful for the analysis of in-vehicle-generated near-miss data, and (2) the degree of compatibility that could be developed between vehicle-borne and static position-borne data collection techniques. Data compatibility across all near-miss techniques could result in the means to develop combined databases that could be used for meta-analyses across studies.

Specifically, the project:

(1) Performed a review of the traffic conflict technique to assess the methodology and apply it to the analysis of in-vehicle data. The literature review also assessed the feasibility of applying the conflict-to-accident ratios generated by the TCT to portions of the TravTek data.

Essentially, TCT looks at near-accident or potential-accident situations in order to provide more timely information regarding hazardous roadways and conditions than can be provided by accident histories. The technique utilizes intersection observation of accident avoidance situations, or near-misses, to extrapolate recommendations about hazardous intersections and appropriate corrective action. A traffic conflict has conventionally been defined as a potential accident situation involving one or more vehicles, in which drivers take evasive actions such as braking or weaving in order to avoid a collision. As defined, the evasive action must result from an unusual or unexpected situation.

The TCT is a static observation of a single intersection that counts the number of near-miss occurrences over time and classifies their type and severity. The safety analysis technique utilized in the TravTek study counts and classifies the same types of near-miss events for drivers in a single vehicle. The degree to which these types of data were compatible, and the static-observation variables useful for in-vehicle research, were investigated.

(2) Reviewed the General Estimate System (GES) data archiving methodology to determine which variables would be useful for near-miss analysis and which variables could be feasibly obtained from an instrumented vehicle. The GES is a comprehensive data archiving system for accident data. It utilizes a large number of classification variables so that a variety of epidemiological analyses can be employed to assess accident causation. Since a goal of this project was to develop a similar archive for near-miss data, the variables used and lessons learned from the GES were an invaluable resource.

(3) Extended the near-miss methodology originally performed in the TravTek analysis by defining characteristics useful in describing the pre-cursor circumstances to each near-miss. These characteristics were drawn from the 1993 GES variables, previous traffic conflict methodologies, and the original TravTek analysis.

No accidents resulted during the TravTek Camera Car Study. Therefore, the effects of the navigation configurations on driving safety were assessed by analyzing the near-miss events present (38 in number occurring in 242 30-minute data collection drives) and safety-related errors. Errors were classified across different levels of potential severity, environmental proximity, and whether they were directly caused by use of a navigational device. Specific measures of performance were also taken for defined error types such as lane deviations and, braking errors. The results of the analysis showed that there were considerably more safety-related errors in some of the conditions tested. These results were consistent with other driver performance-related results, indicating that this analysis technique has potential merit.

As part of the current TravTek data analysis extension project, a computerized database and synchronized video database of the one minute of detailed driving performance data prior to each near-miss was created. This database was used to assess the circumstances leading up to each near-miss by analyzing the classification variables identified from the GES, TCT, and the original TravTek analysis. The goal of the creation of this database was to provide value added for safety assessment. One purpose of this database is to serve as a “first cut” at a standard data collection and reduction methodology for future near-miss and traffic conflict research. Such “standardized” data could be generated, in

whole or in part, by DASCAR, SAVME, NADS, standard traffic conflict techniques, or other NHTSA-sponsored instrumented vehicle research.

(4) An original goal of the project was to develop a methodology to compare the rates of near-miss incidents observed in the TravTek Camera Car study to those observed using the traffic conflict technique. However, as described in the following sections, the literature review results indicated that a number of issues remain with regard to the estimation of accident rates even within the traffic conflict technique. In addition, much of the data were not comparable since very few TravTek near-misses occurred at intersections, and TCT to date has only analyzed intersections. Thus, given these issues and the small sample of TravTek near-misses overall, estimation of accident rates was deemed inappropriate.

Although accident rates could not be legitimately predicted, the methodology developed by this project does provide a means for comparison of near-miss data between techniques as additional data are collected in a similar format.

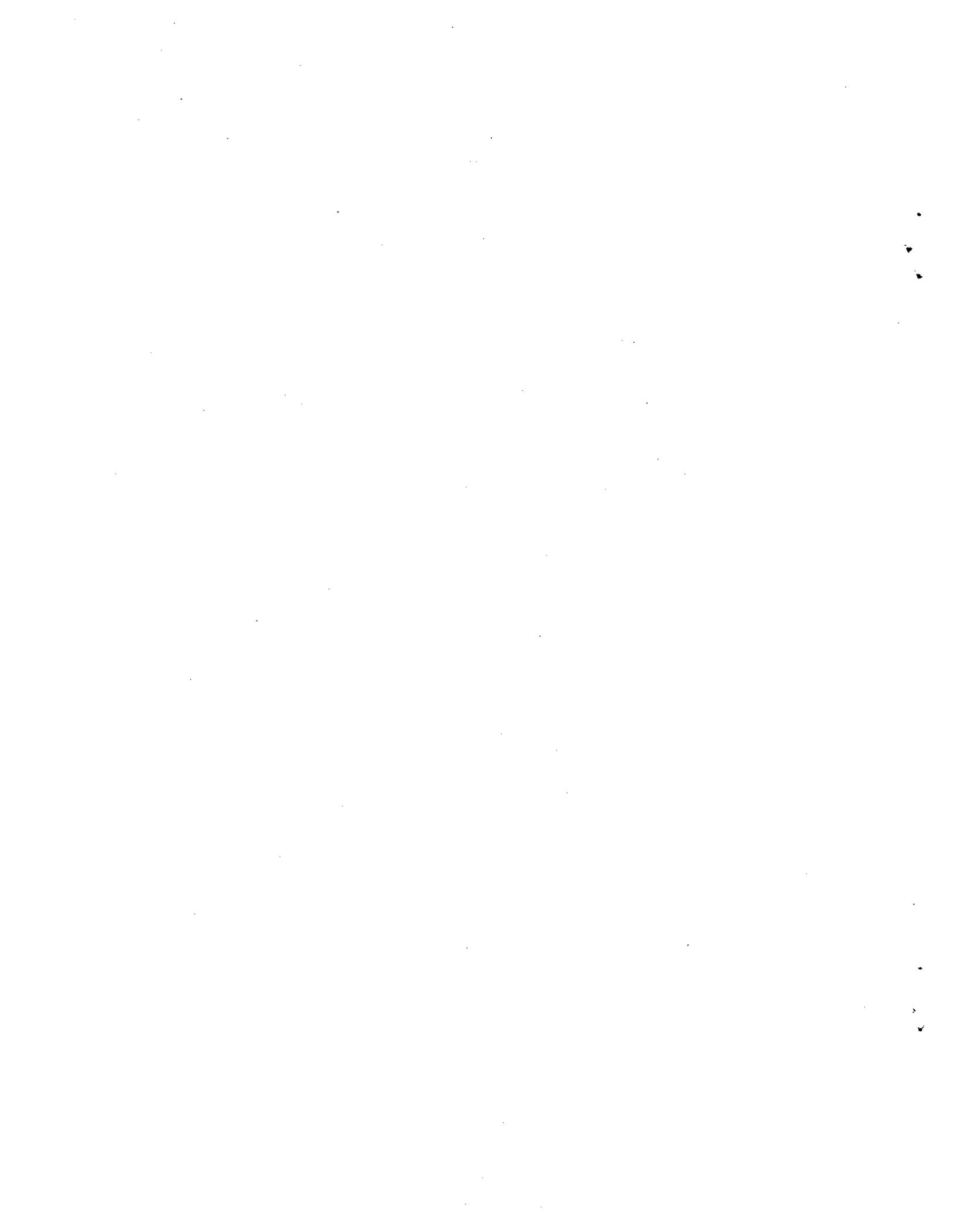
Based on the results of the literature review and a preliminary analysis of the TravTek near-miss database created as part of this project, the utilization of near-miss/traffic conflict data to improve the predictive capability of proactive safety evaluation appears to have merit. The approach provides a focus for emerging tools and techniques. In addition, as shown by the traffic conflict literature, it may provide the best hope of eventually providing an accurate pre-deployment predictor of accident rates.

The extended, standardized near-miss database is provided as part of this report in both an electronic and hard copy format. In addition, the reduced TravTek data set consisting of the one minute of detailed performance data prior to each near-miss and the corresponding video record of the TravTek near-misses are also provided.



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INTRODUCTION

The state-of-the-art in the proactive measurement of safety benefits is such that direct comparisons of the relative safety between an ITS configuration and an appropriate control condition can be accomplished with some level of confidence. That is, it is quite practical to ordinally rank a set of matched configurations from least to most safe. However, the magnitude of any differences found between conditions, as well as the ultimate, accurate prediction of accident rates once deployment is achieved, cannot currently be derived. A recent example of the state-of-the-art is the center, high-mounted stop light (CHMSL). Empirical research and even substantial fleet testing showed that the CHMSL would result in a safety benefit. This finding was in fact correct, but the magnitude of the benefit was predicted to be higher than subsequent epidemiological research ultimately determined.

There is only one direct measure of effectiveness related to the issue of safety: number and severity of accidents. Unfortunately, the direct measurement of accidents does not help the empiricist attempting to make a proactive safety evaluation. Since accidents are such rare events, huge amounts of data must be available before direct judgment of accident rates can be estimated. Dingus (1995) proposes the use of near-misses (AKA or similar in concept to traffic conflicts) as the best available proactive predictor of safety. His paper describes some of the pitfalls of using measures of driving performance to assess safety; he believes that the measurement and analysis of near-misses can serve as a bridge between empirically measurable constructs and the direct prediction of safety. An approach to achieve this goal is to further develop both the ties between performance measures and near-crashes/traffic conflicts and the ties between near-crashes/traffic conflicts and crashes.

Analysis of near-misses or traffic conflicts is not a new concept. The Traffic Conflict Technique (TCT) was initiated in the United States in the 1960s. Interest developed quickly in the international arena of traffic safety analysis and the technique became widely accepted and implemented. There is currently an Association for International Cooperation on Traffic Conflict Techniques that consists of researchers and safety

administrators whose aim is to promote and organize the exchange of information and unify the data collection and validation of results. There has been a great deal of more recent activity in Europe including fairly recent technical reports describing data from Holland, Sweden, France and Portugal are in existence (Alm; Hallen; Ygnace, 1994). These data, in conjunction with other existing data, have provided some valuable insight into the relationship between near- crashes and crash rates.

Essentially, TCT looks at near-crash or potential crash situations in order to provide more timely information regarding hazardous roadways and conditions than can be provided by epidemiological accident histories. The technique utilizes intersection observation of crash avoidance situations, or near-crashes, to extrapolate recommendations about hazardous intersection and appropriate corrective action. A traffic conflict has conventionally been defined as a potential crash situation involving one or more vehicles, in which drivers take evasive actions such as braking or weaving in order to avoid a collision. The evasive action must result from an unusual or unexpected situation (Perkins and Harris, 1968; Asmussen, 1984; Risser, 1985).

Data acquisition historically has taken place over a short period of time utilizing multiple trained observers and/or motion picture cameras to provide a continuous record of all of the events taking place. Observers quantify factors such as time to avoid collision, severity of evasive action, type of evasive action, and proximity of vehicles involved. This manual means of data collection is very labor intensive. The authors believe that this is one reason that TCT has not provided more of a positive safety impact over the last 35 years. However, with emerging technologies including machine vision (including the vehicle-motion environment tool), automated near-crash data can potentially be collected much more efficiently.

Results utilizing the traffic conflict technique consistently show that high accident frequencies are always associated with high conflict frequencies. Study results concentrating on specific intersection types indicate a 0.80 correlation between serious conflicts and high accident rates. However, according to Older and Spicer (1976), the ratio between accidents and serious conflicts is highly dependent upon intersection

demographics, the exact technique used by the conflict rater, and the type of vehicles involved in the conflict. Urban area intersections have shown a serious conflict-to-injury accident ratio for four- or more-wheeled vehicles to be approximately 2000:1. Situations involving motorcycles, bicycles, and pedestrians have much lower accident ratios of between 500:1 and 300:1.

As described in previous sections, a methodology similar to TCT was employed in the TravTek Camera Car Study. This approach analyzed near-crashes in a vehicle on-road as opposed to analyzing conflicts from a stationary point. Such an environment, particularly in the case of large-scale ITS demonstrations, might serve both as a means to generate data to tie measures of performance to near-crashes or crashes, and as a test bed to predict safety effectiveness.

DETAILED RESEARCH APPROACH

In order to achieve the overall project goal of developing a comprehensive knowledge-base of “near-miss” information from the TravTek Camera Car Study, the following tasks were performed:

Task 1: Literature Review

A comprehensive literature review was conducted of the Traffic Conflict technique literature. This review was aimed at: (1) determining the methodological approaches used for TCT, (2) determining the validity of the technique itself, and its accident rate prediction accuracies, and (3) collecting the data results of traffic conflict studies involving intersection and road types that are matched to those occurring in the TravTek Camera Car Study. Due to differences in application of the technique by researchers and varied environmental conditions within each study, care will have to be taken in combining results. The goal of the literature review will be to collect data to estimate a rate of near-miss occurrence expected for a particular intersection or roadway type.

Task 2: TravTek Data Analysis

The project extended the near-miss methodology originally performed in the TravTek analysis by defining characteristics useful in describing the pre-cursor circumstances to each near-miss. These characteristics were drawn from previous traffic conflict methodologies and the original TravTek analysis. In addition, the project reviewed the General Estimate System data archiving methodology to determine which variables would be useful for near-miss analysis, and which variables could be feasibly obtained from an instrumented vehicle. The GES is a comprehensive data archiving system for accident data. It utilizes a large number of classification variables so that a variety of epidemiological analyses can be employed to assess accident causation. Since a goal of this project was to develop a similar archive for near-miss data, the variables used and lessons learned from the GES were an invaluable resource.

No accidents resulted during the TravTek Camera Car Study. Therefore, the effects of the navigation configurations on driving safety were assessed by analyzing the near-miss events present (38 in number out of over 242, 30-minute data collection drives) and safety-related errors. Errors were classified across different levels of potential severity, environmental proximity, and whether they were directly caused by use of a navigational device. Specific measures of performance were also taken for defined error types such as lane deviations and braking errors.

As part of this project, a computerized database and synchronized video database of the one minute of detailed driving performance data prior to each near-miss was created. This database was used to assess the circumstances leading up to each near-miss by, to the greatest degree possible, determining the variables identified from the GES, TCT, and the original TravTek analysis. The goal of the creation of this database was to provide value added for safety assessment. This reduced database was devised for evaluation as the beginnings of a “standard” data collection and reduction methodology for future near-miss and traffic conflict research. Such “standardized” data could be generated, in whole or in part, by DASCAR, VME, standard traffic conflict techniques, or other NHTSA-sponsored instrumented vehicle research.

Task 3: Accident Rate Analysis

An original goal of the project was to develop a methodology to compare the rates of near-miss incidents observed in the TravTek Camera Car Study versus those observed using the traffic conflict technique. However, as described in the following sections, the literature review results indicated that a number of issues remain with regard to the estimation of accident rates even within the traffic conflict technique. In addition, much of the data were not comparable since very few TravTek near-misses occurred at intersections, and TCT to date has only analyzed intersections. Thus, given these issues and the small sample of TravTek near-misses overall, estimation of accident rates was deemed inappropriate.

Task 4: Reporting

This report provides a description of the literature reviewed, analytical methodology used, results, and conclusions. In addition, a “lessons learned” section is provided assessing the potential value of this technique for future IVHS operational field tests. This assessment highlights data needs as well as the estimated validity of the approach.

LITERATURE REVIEW

BACKGROUND: THE DEVELOPMENT OF A NEAR-MISS METHODOLOGY AS PART OF THE TRAVTEK CAMERA CAR EVALUATION

In order to assess the effects of using TravTek configurations on driving safety, an analysis of near-miss events and safety-related driving errors was conducted as part of the original TravTek Camera Car analysis (Dingus, McGehee, Hulse, Jahns, Manakkal, Mollenhauer and Fleischman, 1995). Ideally, accident data would be used to evaluate the safety issue, since they provide irrefutable evidence of an unsafe circumstance. During the course of the Camera Car Study, however, no accidents occurred. Fortunately, estimates of safety risk could be addressed by analyzing near-misses and safety-related errors. It has been shown in other domains (e.g., TCT and other industrial applications) that near-misses can be used to estimate the likelihood of an accident. Unfortunately, no data are in existence that tie the relative probabilities of near-misses and accidents together for driving. Overall, this methodology will be valuable for comparing the relative safety of the tested navigation conditions. Additional research will be required to determine accident rates for given levels of market penetration.

Near-crashes occur more often than accidents of any severity, as illustrated in figure 1. This figure, known as Heinrich's Triangle, is used in other safety applications to obtain an estimate of the future accident rate by counting near-misses. By counting the number of near-crashes associated with a given configuration and driving circumstance, it is sometimes possible to estimate the number and severity of accidents that would occur for given levels of market penetration. Unfortunately, the numerical tie between accidents and near-crashes does not yet exist for driving. The concept is useful for comparison of navigation conditions, since (1) no accidents occurred while driving the camera car, and (2) differences in numbers of near-crashes will reflect ordinal differences in accident rates at *some* level.

Also shown in figure 1 are two levels below near-crash not commonly assessed as part of this method. These levels, dubbed "error, hazard present" and "error, no hazard present,"

refer to driving errors that do not constitute a true “close call.” These categories were analyzed as part of the TravTek analysis along with true near-misses to provide additional safety-related data for comparison. The relative magnitudes shown in figure 1 are hypothetical. However, regardless of their relative frequency, these measures provide a valuable means for direct comparison between the navigation conditions tested.

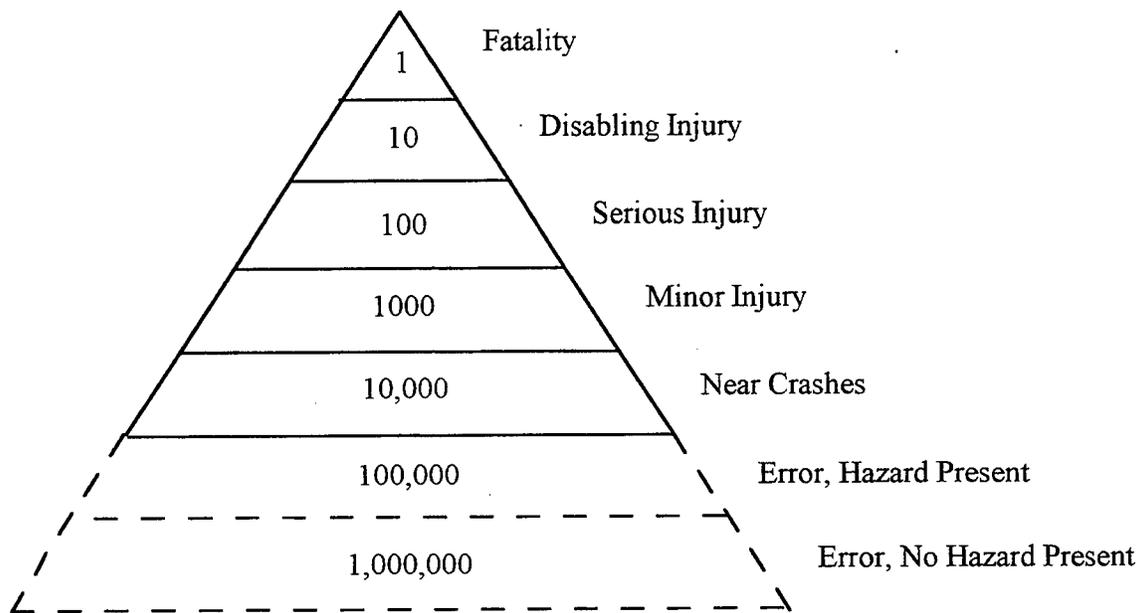


Figure 1. Example of a Heinrich's Triangle with hypothetical relative frequencies for driving.

The classification of an event as a near-miss was systematically evaluated using a priori criteria. These criteria were used to establish the severity of an unsafe act based on the potential accident consequences. The criteria used are described in detail below and include type of potential accident and associated injury potential, vehicle speed, presence or absence of proximal traffic, and roadway type.

Potential accident consequences were established by two independent raters who used the above criteria. The classification scheme was based on the most severe, reasonably probable potential outcome, including fatality, disabling injury, serious injury, minor injury, and no injury.

The process of event classification was initiated by placing the safety-related error into one of ten broad categories:

- Unsafe braking events
- Inappropriate glance creating an unsafe condition
- Merging or lane change errors
- Inappropriate speed
- Lane deviations occurring on straight roads
- Tracking errors in turns or corners
- Other cornering or turning errors (not tracking errors)
- Errors committed at intersections (not while making a turn)
- Inappropriate stops due to use of a navigational aid
- Inappropriate reaction to external events

In addition, an “appropriate reaction to external events” category was created to measure the number of times drivers reacted appropriately to an unexpected external event.

In order to apply a “potential severity” number to a given near-miss or driver error, events needed to be descriptively distinguished within the broad categories described above. A tool was developed to allow a rater to analyze the videotape of the events and consistently quantify the severity of safety-related errors (see Dingus et al., 1995). Accident data from the National Highway Traffic Safety Administration’s General Estimates System were used to determine the different potential severity values within each event description. All of the four elements mentioned above that contribute to the potential severity of a safety-related driving error were included in the final description. Close to 200 different combinations of elements were assessed by following the various paths of the flow charts. From this detailed description, three key safety risk factors were analyzed independently: “potential severity” of the event, “environmental proximity” of a hazard, and whether the navigational aid appeared to be a direct causal factor for the unsafe event. A listing of all the detailed error descriptions, along with the assigned potential severity values, based on speed were generated from the flow chart tool. These descriptions are shown in the Dingus. et al. (1995) report.

In determining the potential severity of an event, it was assumed that the worst-case accident could occur. Worst-case was defined as the most likely severe accident that would occur assuming a single change in pre-event circumstances. The potential severity, therefore, is a hypothetical event, created even if the elements to actually create an accident were not present. For example, consider the case where a driver was traveling at 89 km/h (55 mi/h) on a two-lane road and deviated out of the lane boundary into the oncoming lane of traffic. The worst-case accident would be a head-on collision, given that a hypothetical vehicle in the opposing lane was present. Whether the vehicle was present will be factored separately with the “environmental proximity” indicator to be discussed later. The potential severity of the example is high because the approach speeds and striking angles would produce extreme deformation of the vehicle structure. Given other circumstances, such as lower speeds or angles other than head-on, the potential severity would be lower. The National Highway Traffic Safety Administration’s General Estimates System helped to determine the potential severity values for these worse-case scenarios.

By analyzing the worst-case circumstances, four categories of severity ratings were created. These categories, described below, were developed based on operational definitions commonly used in system safety analysis. Note that in all determinations of potential severity, it was assumed that traffic was present (whether in reality it was or was not), and that the worst reasonably feasible accident occurred (Dingus et al., 1995).

Operational Definitions

Operational Definitions for Potential Severity Categories

(4) Catastrophic - Potential for an accident where a fatality or permanent disabling injury is likely to occur (e.g., head-on collision or running a red light on a multilane road with a 72 km/h [45 mi/h] speed limit).

(3) Critical- Potential for accident where injuries are severe enough to require overnight (or longer) hospitalization. The injuries, however, would not likely be permanently disabling (e.g., running two-way stop signs in a residential area where the speed limit is 56 km/h [35 mi/h]).

(2) Marginal- Potential for an accident where injuries are feasible, but would not likely be severe enough to require hospitalization (e.g., side-swiping a car at 56 km/h [35 mi/h] because of a lane deviation).

(1) Minor - Potential for an accident occurring in which only property damage would likely occur (e.g., hitting a curb due to a lane deviation at 40 km/h [25 mi/h] and damaging a rim, but not causing physical harm to the driver).

Because there were no actual accidents, the severity number represents a worst-case scenario that did not occur, and provides no examination of the degree to which the error was a “close call.” For example, previous research has shown that drivers using a navigation system have fewer lane deviations when other traffic is present. Therefore, drivers may have been more accepting of the commission of error in circumstances that were not inherently unsafe (e.g., a minor lane deviation may not be inherently unsafe if no traffic is present).

To address this issue, events were also classified by the “environmental proximity” of a hazard to the camera car. The environmental proximity for each error was placed into one of three categories: near-miss, hazard present, and no hazard present. The operational definitions of these categories can be found below. If an event occurred where there was in fact no hazard present, then the resulting criticality of the event was viewed appropriately in this context (Dingus et al., 1995).

Operational Definitions for Environmental Proximity Category

Near-Miss. The driver is startled by a situation and is required to take immediate evasive action in order to prevent an accident. Near-misses include situations where experimenters had to give an imperative verbal warning to drivers in order to bring their attention to unsafe situations. An example of this might be when the experimenter needs to call out “Red light!” because it appears that the driver will proceed through it if not told. Even though the subject may stop in time and not actually enter the intersection, the startle response or experimenter intervention was a primary cause for the avoidance of danger.

Hazard Present. The driver commits a safety-related error when an object (e.g., another vehicle, a pedestrian, or a guardrail) is present in the environment. “Hazard present” requires that the object be in a close enough proximity to represent a hazard to the test vehicle, but not close enough that an immediate evasive action must be taken to avoid it.

No Hazard Present. The driver commits a safety-related error, but no close-proximity obstacle is present in the environment. An example of this would be a lane deviation where there are no objects near the test vehicle that constitute a hazard. The lane deviation still needs to be considered a safety-related error, even though the camera car was in no immediate danger.

A final error classification addressed the issue of whether navigation conditions were a causal factor in the commission of the error. Determining each error involved carefully reviewing the videotape data and listening to the audio track. During the review process, the analyst watched (several times) where the subject was looking prior to the event and listened to determine if the TravTek voice system was speaking prior to the event. In addition, the subjects often provided an unsolicited commentary about the occurrence of the event, which aided in determining the causal factors. Utilizing these observations, the analysts made their best assessments as to whether the navigation condition was a causal factor. The operational definitions of this categorization appear below.

Operational Definitions for Navigation Condition as a Causal Factor

Navigation Condition Caused. This condition exists when the root cause of the safety-related error was heavily influenced by looking at the displayed navigational information or listening to the TravTek voice. This includes glances at the CRT information, paper map, or written directions. If the driver is looking forward and commits a safety-related error, and it is obviously caused by focusing attention on the TravTek voice, then it is still quantified as being caused by navigation information.

All Glance Locations Considered. This condition exists when the root cause of the safety-related error was not specifically influenced by looking at the displayed navigational information or listening to the TravTek voice. Instead, it apparently occurred as part of

the driver's normal operating behavior, which is likely to include a certain number of safety-related driving errors that are independent of navigational aid use.

Measures of Performance for Safety

In order to find the safety-related driving errors, several measures of performance were collected that served as "triggers" to view specific portions of the videotaped subject runs. The triggers occurred within the data stream collected during testing, and were either placed by the experimenter or were extreme values flagged in the computerized portion of data collection. All videotaped runs were also reviewed by a second rater for errors on the experimenter's part. It should be noted that a "trigger" in and of itself does not denote an unsafe circumstance; it is only a cue to closely analyze a situation. The above-mentioned flow chart tool was used to determine whether an event was safety-related, and to what severity level. Ultimately, the measures of performance serve only as criteria for determining where to conduct detailed video analysis. The measures of performance that were collected for this purpose are briefly described in the following paragraphs.

Number of Accidents

As mentioned before, no accidents occurred.

Number of Near-Misses

A count of near-miss occurrences, as defined above, was conducted in order to observe differences in frequency for the various display configurations. Near-misses are considered the best estimate of future potential accidents.

Single Eye Glances Greater than 2.5 s.

Glance duration was recorded and the data were reduced in such a way that each driver glance to the nearest 0.1 s could be identified. Lengths of single glances to the display (map) configuration are of particular interest to system safety. Bhise, Forbes, and Farber (1986) have suggested that, based on speed and travel distances, any single display glance greater than 2.5 s is inherently dangerous. Based on this research, 2.5 s was used as a criterion to assess instances of unsafe behavior. Potential hazard environmental proximity

was a key element in assessing whether the long glance was a safety-related event. If no hazard was present, then a long glance alone was not considered a safety error or event.

Location of Glances

When using navigation systems, drivers tended to glance back and forth between the display and the forward roadway. Distinguishing safety-related errors that occurred as a direct cause of navigational display glances helped identify which configurations required high visual attention. However, this measure of performance, in and of itself, was not a safety issue. Therefore, no results were tabulated based solely on one or more glances to a location. The use of the criterion “navigational aid as causal factor” (described above) distinguishes between errors caused by attention focused on either the display or the roadway.

Abrupt Lateral Accelerations and Braking Maneuvers

The camera car automatically recorded all lateral and longitudinal accelerations. A value of 3.9 m/s^2 (0.40 g) was set as a trigger point for further analysis of excessive acceleration (lateral or longitudinal) to determine if an unsafe event occurred. Late braking reactions that occurred due to conditions in the driving environment such as slow traffic or traffic control devices were also marked in the data stream by the experimenter.

Unplanned Lane Deviations

All lane deviations were classified and timed by using a lane-track camera view. An unplanned lane deviation is a face valid indicator of driver inattention and accident potential. It is important to distinguish between lane deviations caused directly by navigation condition attention and deviations caused by other factors. Other factors that could cause lane deviations include unsafe driving habits such as clipping corners, poor roadway design or poorly painted lines, and traffic situations that force a lane deviation. Lane deviations that occur while attention is focused to the navigational aid are a better estimate of the workload required by that navigation condition.

Reaction to External Events

When driving, occasionally there is a maneuver required to avoid some unpredictable hazard in the roadway ahead of the vehicle (e.g., another vehicle pulled out suddenly in front of the driver or there was debris in the roadway). Analysis of the reaction to these external events is indicative of the degree to which the driver's attention was diverted to a given navigation condition. Inappropriate reactions are considered unsafe events and are good indicators of overload. Appropriate reactions also provide a counter indicator, and although no safety-critical event occurred, one was essentially avoided. Therefore, both appropriate and inappropriate reactions to external events were considered in the safety analysis.

Inappropriate Speed

Slow speeds due to glances at the display configuration indicated driver inattention to the driving task. Variation in speed increased the hazard potential due to changes in closing rates between the camera car and proximal traffic. In determining accident potential, special attention was placed on where the glance location was predominately focused when speeds were extremely slow.

Stopping in Unsafe Circumstances

Stopping in a location that created potential for an accident was broken down into two different types of hazards. The first consisted of the driver slowing to a stop in order to retrieve navigation information, but choosing an unsafe location in which to stop (e.g., the driver pulled off on the shoulder of a busy interstate roadway, partially off on the shoulder of a two-lane roadway, or stopped in a lane of traffic). The second hazard consisted of the driver making a normal intersection stop for a traffic control device, but sitting for a long period of time collecting navigation information instead of proceeding through the intersection in a correct and legal fashion. Note that when camera car drivers remained stopped at a green traffic light, other drivers were confused about their intentions.

Subjective Workload Ratings for Overload

These ratings give a good indication of workload situations that may not necessarily cause a performance decrement, but still cause high attention demand. If the subject rated all three dimensions of the subjective workload scale as high, these cases were considered to be a relevant safety event due to the increased stress level. A comparison of these high work-load ratings was conducted across the different display configurations.

Dangerously Close Headways

When drivers followed at close headways, the attention required to effectively avoid accidents increased greatly. Frequent or extended glances at the navigation information display rather than the forward roadway constitute an increase in accident potential. Differences across display conditions were analyzed for these circumstances.

LITERATURE REVIEW DESCRIBING THE TRAFFIC CONFLICT TECHNIQUE

There has long been a need in the field of transportation safety to assess hazards in a proactive manner. Accidents are the best direct measure of a safety-related problem with the vehicle, the driver, or the road infrastructure. However, these data can only be gathered post-hoc, and therefore any recommendations resulting from the results are "reactive." It would be more advantageous if safety risks could be predicted before accident data were generated, particularly in cases such as the implementation of new systems. Needless injury and death could be avoided if system prototyping or re-designs could be implemented prior to mass market penetration.

For well over 30 years, researchers have attempted to develop techniques for proactive safety prediction. For example, in an effort to predict intersection accidents, a technique was developed that counted "near-misses" or "conflicts." It has long been believed that so-called conflicts or near-crashes between vehicles which are severe enough to cause avoidance reactions are indicators of accident potential. Under this theorem, the greater the number of conflicts that occur, the more likely that an accident will eventually result.

The technique of counting near-crashes at intersections became known as the Traffic Conflict Technique (TCT) and has become a widely used method of intersection safety evaluation.

Past Traffic Conflict Technique Research

Over the last quarter of a century, a number of attempts have been made to precisely operationally define the methodology, presence, and categorization of the traffic conflict technique. Definitions have evolved over the years resulting in a more objective measure of safety and more accurate predictor of accidents. One attempt to more accurately define conflict measures has been to rate the severity of the conflict; these are often called "time-to-collision" measures. Researchers interested in TCT began to explore issues of validity and reliability as the technique became more popular. Specific study results have not always been consistent, and researchers began to question if conflicts really were an unbiased predictor of accident potential (Glennon, Glauz, Sharp, and Thorson, 1977).

The first paper about the TCT was written by Perkins and Harris (1967), who are credited with developing the framework of analysis that is still used today in TCT applications. According to Glauz and Migletz (1980), the researchers originally developed the technique in order to investigate whether General Motors vehicles were driven differently than other makes. The technique was soon considered more appropriate for evaluating intersection deficiencies, and was pursued by governmental departments as a safety evaluation tool.

Because accidents are such rare events, Perkins and Harris (1967) postulated that traffic conflicts could be counted as surrogate indicators of accident potential. The desire was to have a technique that was objective, reliable, and repeatable, and where data collection could take place in a reasonable time period with minimal expense. The solution was a method of intersection observation that required three one-day surveillance sessions that lasted 12 hours each. Two observers were situated at different ends of an intersection approach leg and worked in multiple 15-minute time periods. Data were collected by observers filling out recording sheets that log the amount of traffic in addition to the number and type of conflicts for each given intersection.

Perkins and Harris (1967) defined a traffic conflict as "when a driver takes evasive action, brakes, or weaves to avoid a collision." The researchers at GM further defined five general types of conflicts in accordance with accident types at intersections: (1) left-turn, (2) weave, (3) cross-traffic, (4) red-light violations, and (5) rear-end. For example, a left-turn conflict occurs when a vehicle turning left crosses directly in front of an opposing vehicle, causing it to brake. A weave conflict occurs if a vehicle changes lanes within 200 feet of an intersection and causes a following vehicle to apply the brakes. A cross-traffic conflict occurs if a vehicle traveling straight through an intersection causes a traffic slow-down. Red-light violations are driver errors in signal detection or with blatant disregard for traffic control devices that result in avoidance maneuvers by another vehicle. Finally, rear-end conflicts involve the slow down of a lead vehicle, causing a second vehicle to brake suddenly.

In 1969, the United States Federal Highway Administration (FHWA) awarded contracts to the states of Washington, Ohio, and Virginia to aid in the further evaluation of the TCT. The technique eventually gained international interest and soon entire conferences were being held solely on TCT. According to Glauz and Migletz (1980), the research efforts focused on the following questions:

- What are the true relationships between traffic conflicts and accidents?
- What are the "best" definitions of traffic conflicts?
- How should traffic conflicts be measured (i.e., human observers, film, automated sensors, etc.)?
- What are the basic applications of traffic conflicts (i.e., accident prediction, hazardous location identification, hazardous location diagnosis, traffic improvement evaluation)?
- To what specific types of applications do traffic conflicts lend themselves (i.e., intersections, construction zones, acceleration lanes, etc.)?

According to a history summation by Williams (1981), the original GM technique was never fully replicated. Each subsequent TCT study modified definitions, procedures, or parameters so that it is now impossible to make any truly unbiased comparison across study designs. Specific modifications to the original GM TCT studies included: different times of day in which data were collected, the number of days for which data were collected, the definition of a conflict, the intersection type analyzed, the training of the observer, and the use of cameras instead of live observers. Thus, while interest in the technique grew, a rigid procedure was never established. Unfortunately, these methodological differences have made the evaluation of cross-study effectiveness of the technique and comparison of results difficult.

Initial TCT studies simply applied the definitions and study format developed by Perkins and Harris (1967) with slight modifications. These studies attempted to determine the association between conflicts and accidents. Glennon, Glauz, Sharp, and Thorson (1977) summarized the results of the 1969 FHWA evaluation of TCT. According to the authors, the FHWA analysis reported that an association existed between conflicts and accidents. These positive findings of the federal study encouraged further research and application of TCT by various transportation agencies and safety researchers. Glennon et al. (1977) point out, however, that only gross correlation's were provided, and no attempt was made to account for parameters other than intersection type in these studies. They go on to discuss problems with the conclusions reached in the FHWA study, which are discussed in detail in the validity and reliability section below.

Conflict Types

With apparent support that the assumptions of TCT were valid, many states began to modify the technique to suit their particular needs. Glauz, Bauer, and Migletz (1985) quote a definition that was developed as part of the *First Conference on Traffic Conflicts* in Oslo, (1977).

A traffic conflict is an observable situation in which two or more road users approach each other in space and time to such an extent that there is a risk of collision if their movements remain unchanged.

Even with this internationally recognized definition, Glauz and Migletz (1980) used the following, slightly modified definition in their study:

A traffic conflict is a traffic event involving two or more road users, in which one user performs some atypical or unusual action, such as a change in direction or speed, that places another user in jeopardy of a collision unless an evasive maneuver is undertaken.

Changing the definition of a conflict in this way would not affect comparability across studies to a large degree. Other researchers also defined specific types of conflicts, expanding the original five categories, as used by GM researchers, to 13 different basic intersection conflict types and including the possibility of secondary conflicts. An FHWA TCT observer training manual and engineer's guide (Parker and Zegeer, 1989) provides general definitions for each of these conflict types shown in the figures below. Note that while these are Federal documents providing guidelines for TCT procedures, the actual implementers of field studies often do not use the exact definitions provided.

A left turn, same direction conflict occurs when the first vehicle slows to make a left turn, thus placing a second, following vehicle in danger of a rear-end collision (figure 2).

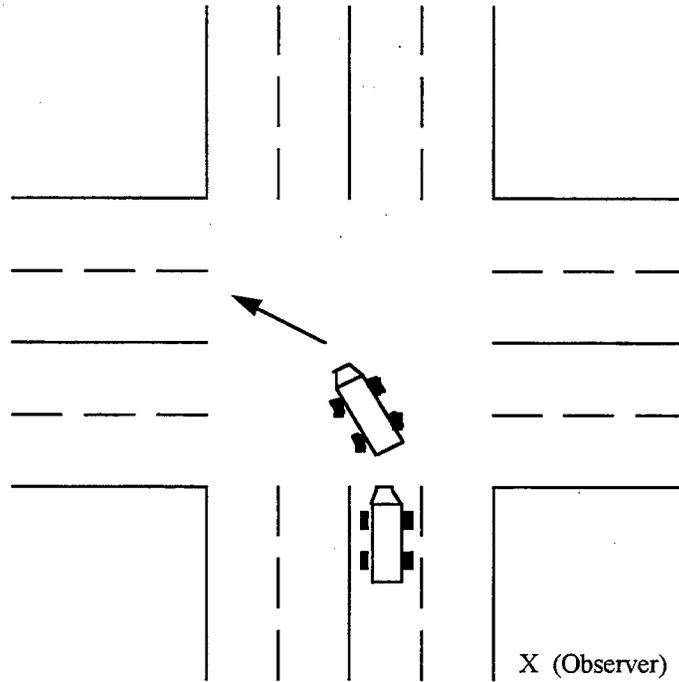


Figure 2. Diagram of a left turn, same direction conflict.

A right turn, same direction conflict is the same as a left turn, same direction conflict but the lead vehicle is making a right turn (figure 3).

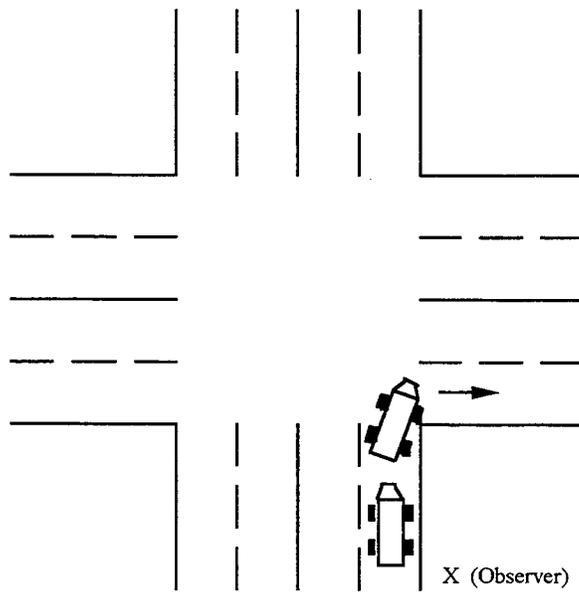


Figure 3. Diagram of a right turn, same direction conflict.

A slow vehicle, same direction conflict occurs when the first vehicle slows while approaching or passing through the intersection (i.e., no turn involved), placing a second, following vehicle in danger of a rear-end collision (figure 4).

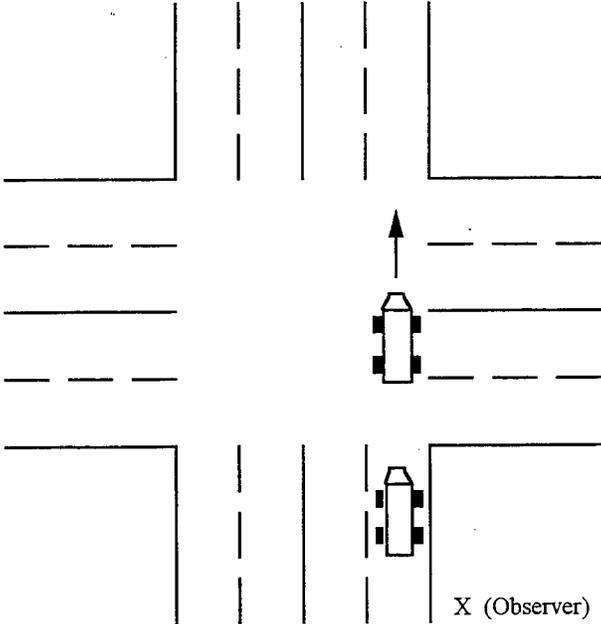


Figure 4. Diagram of a slow vehicle, same direction conflict.

A lane change conflict occurs when the first vehicle changes from one lane to another, thus placing a second, following vehicle in the new lane in danger of a rear-end or sideswipe collision (figure 5). If the lane change of the first vehicle occurred in order to avoid another vehicle, then this lane change is considered a secondary conflict. Secondary conflicts are defined below.

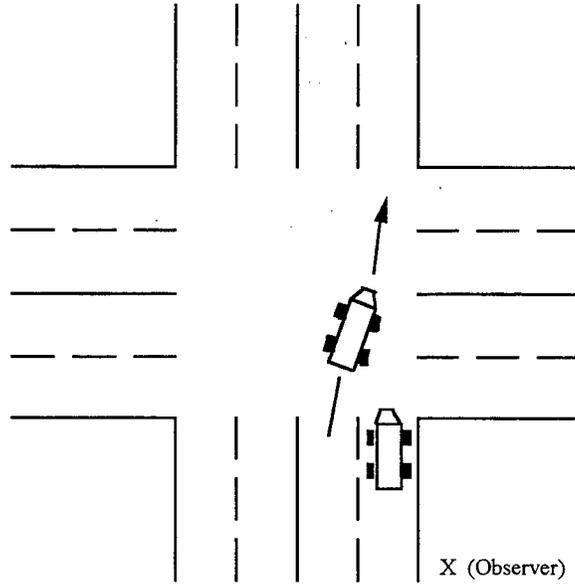


Figure 5. Diagram of a lane change conflict.

An opposing left turn conflict occurs when an oncoming vehicle makes a left turn, thus placing a second vehicle going the other direction in danger of a head-on or broadside collision (figure 6). The second vehicle is presumed to have the right of way, and is not at fault. Thus, if the second vehicle runs a red light, this is not an opposing left turn conflict.

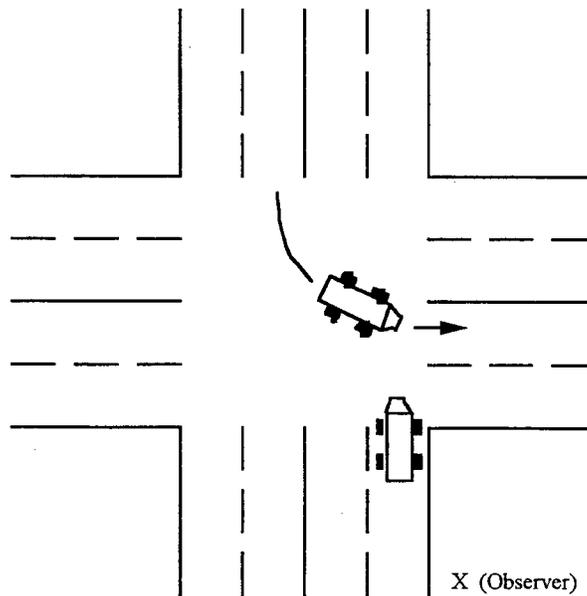


Figure 6. Diagram of an opposing left turn conflict.

A right turn, cross traffic, from right conflict occurs when a vehicle on the right-hand cross street makes a right turn, thus placing a second vehicle on the main street in jeopardy of a broadside or rear-end collision (figure 7).

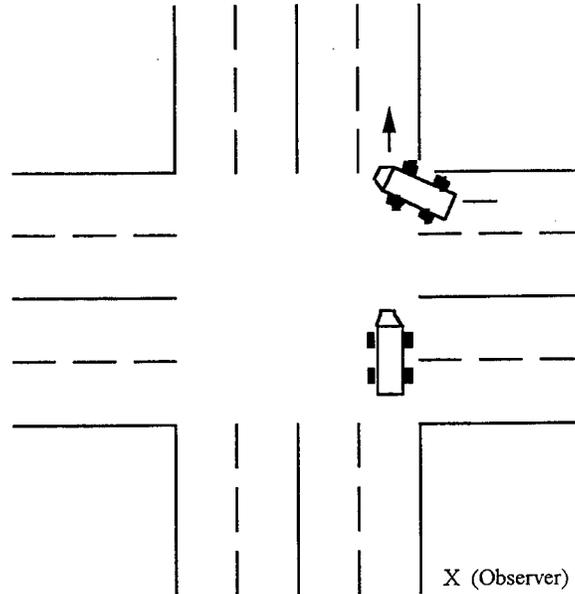


Figure 7. Diagram of a right turn, cross traffic, from right conflict.

A left turn, cross traffic, from right conflict occurs when a vehicle on the right-hand cross street makes a left turn, thus placing a second vehicle on the main street in jeopardy of a broadside collision (figure 8).

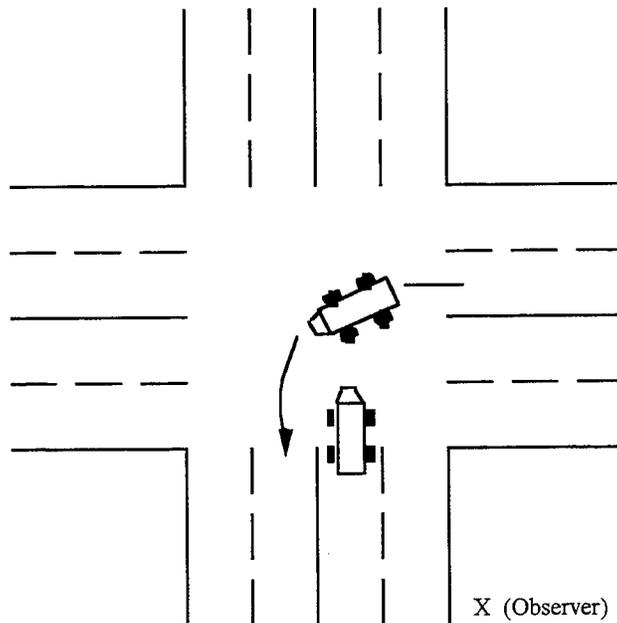


Figure 8. Diagram of a left turn, cross traffic, from right conflict.

A through, cross traffic, from right conflict occurs when a vehicle on the right-hand cross street crosses in front of a second vehicle on the main street, placing it in danger of a broadside collision (i.e. goes straight across intersection, see figure 9).

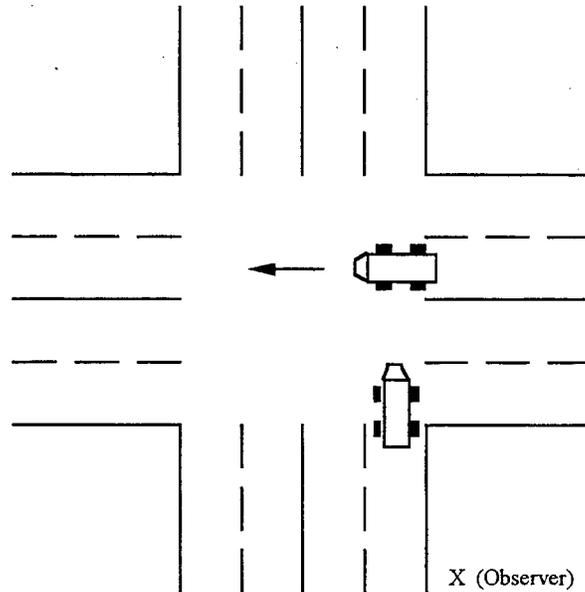


Figure 9. Diagram of a through turn, cross traffic, from right conflict.

A right turn, cross traffic, from left conflict occurs when a vehicle on the left-hand cross street makes a right turn across the center of the main street roadway and into an opposing lane, thus placing a vehicle in that lane in danger of a head-on collision (figure 10).

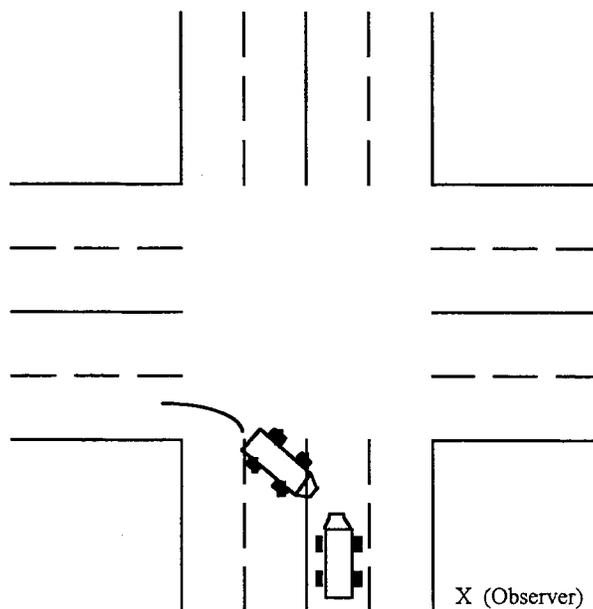


Figure 10. Diagram of a right turn, cross traffic, from left conflict.

A left turn, cross traffic, from left conflict occurs when a vehicle on the left-hand side cross street makes a left turn, thus placing the second vehicle on the main street in danger of a broadside or rear-end collision (figure 11).

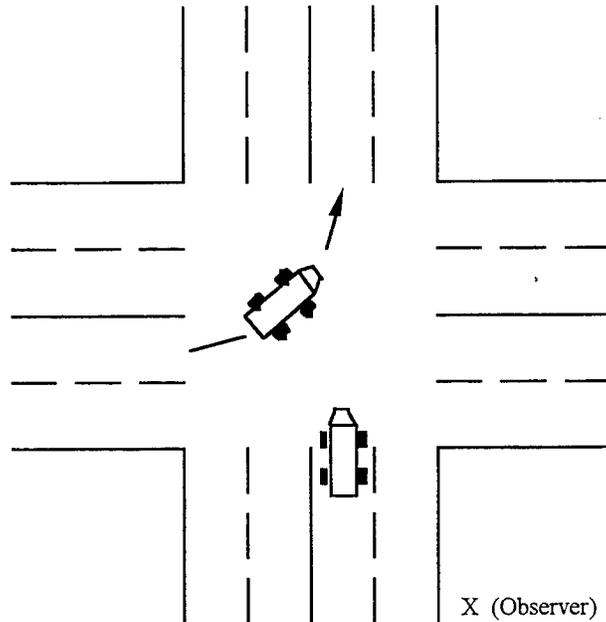


Figure 11. Diagram of a left turn, cross traffic, from left conflict.

A through, cross traffic, from left conflict occurs when a vehicle on the left-hand cross street crosses in front of a second vehicle on the main street, placing it in danger of a broadside collision (figure 12).

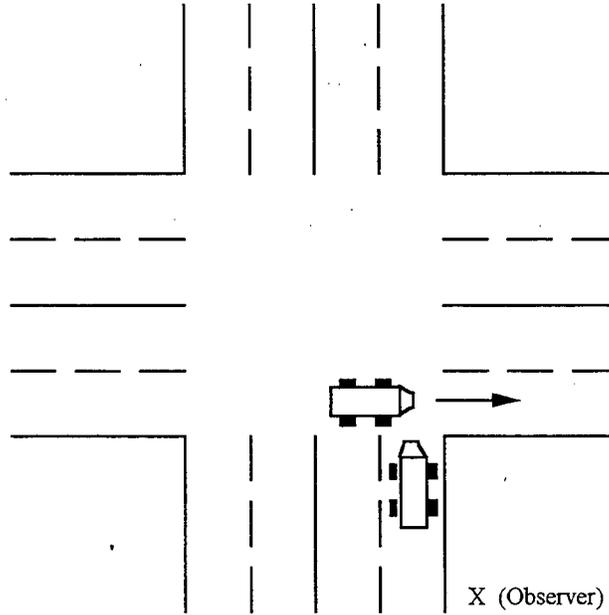


Figure 12. Diagram of a through, cross traffic, from left conflict.

An opposing right turn on red conflict can only occur at a signalized intersection with a protected left-turn phase (figure 13). An oncoming vehicle makes a right-turn-on-red

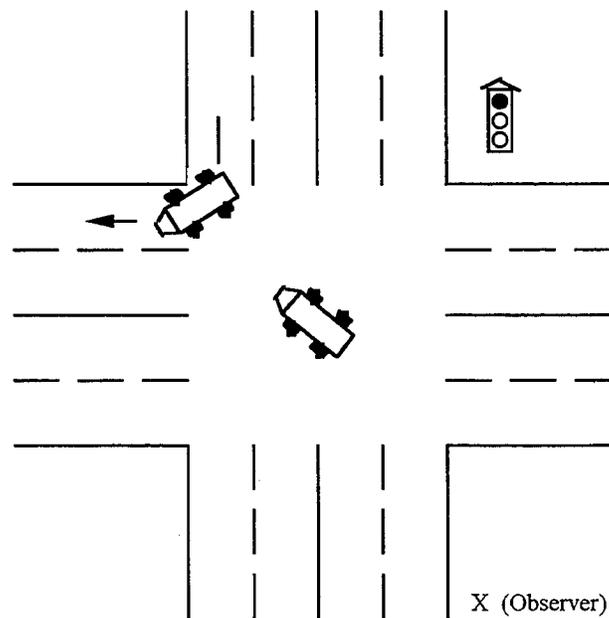


Figure 13. Diagram of an opposing right turn on red conflict.

during the protected left-turn phase, thus placing a left-turning, second vehicle (which has the right of way) in danger of a broadside or rear-end collision.

A pedestrian/bicyclist conflict can occur when a pedestrian or bicyclist (the road user causing the conflict) crosses in front of a vehicle that has the right of way, thus creating a possible collision situation (figure 14).

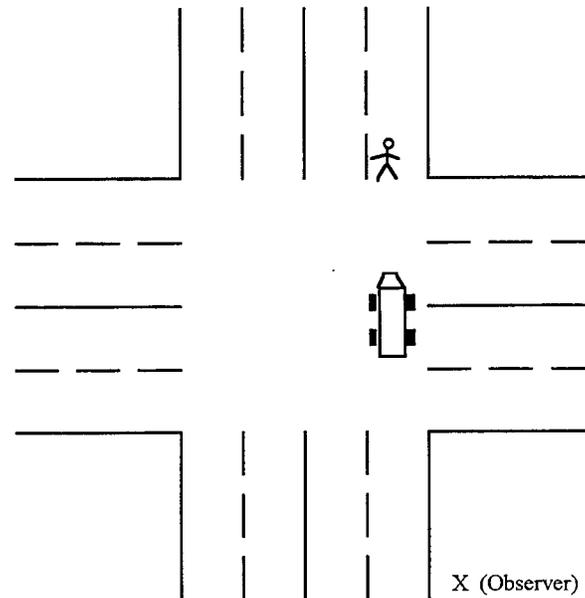


Figure 14. Diagram of a pedestrian/bicyclist conflict.

Secondary Conflicts

In all of the foregoing conflict situations, when the second vehicle makes an evasive maneuver, it may place another road user (e.g., a third vehicle) in danger of a collision. By definition, only one secondary conflict for any initial conflict should be counted. Even if a whole line of cars stops because the first vehicle turns left, the event would be recorded as one left-turn, same direction conflict and one secondary conflict. For an example of a secondary conflict see figure 15.

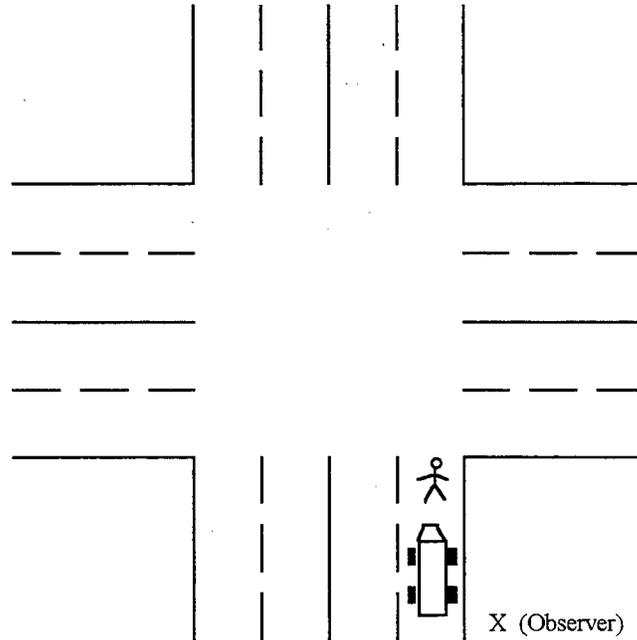


Figure 15. Diagram of an example of a secondary conflict.

Traffic Conflict Technique

When a traffic conflict study is undertaken, observers are trained in the recognition of the conflict situations described above (or utilize modified definitions chosen by the researcher). While there is no set training procedure, most studies approach training in a similar fashion. Training is initially conducted in a classroom environment, using both lecture and film examples of various conflicts. The training method is largely focused on repetition and rehearsal. Final training generally consists of observing real traffic conflict situations with the aid of a trained instructor. TCT observers' experience and background can range from traffic engineers to off-the-street hires (Kruyssen and Wiljhuizen, 1992). For validity and reliability reasons, all observers must attain a criterion-referenced level of competence in TCT rating. The adequacy and reliability of this training method is discussed in greater detail in the validity and reliability section below.

When a TCT study is conducted, generally two observers are used at each intersection being analyzed. Observers are situated so that between the two, all vehicular brake applications can be documented. This often means placement at opposite ends of the

intersection approach zones. The position is often rotated throughout the recording period and rest breaks are included in the time schedule.

The duration and time structure of TCT observation is highly variant across studies, which effects comparability. Some research plans look at an intersection for only one day, whereas others observe conflicts over multiple days or times of the day. However, the purposes of the studies are often very specific, and the researchers' goal is to solve a particular intersection problem, not compare results to other TCT studies. A traffic engineer may use the technique to make a before/after comparison of an intersection redesign. In that case, the actual data collection could be months or years apart. Another study's goal may only be to evaluate a specific intersection type (e.g., signalized intersections) and use several different intersections to collect data. These studies might use multiple observers so that all data can be collected on the same day under the same environmental conditions, but this is not always the case. All these differences makes it difficult to perform meta-analyses by pooling of TCT results. To further complicate comparisons, the European community has evolved different observation criteria and conflict definitions.

Quantification of Conflicts by Severity

One of the early dilemmas with TCT was its wide variance with regard to severity associated with similarly scored conflicts. With the original GM technique, there was no way to distinguish a true near-crash from a mild braking avoidance maneuver. This substantially degraded the validity of the accident-to-conflict prediction ratio. In order to counter this problem, several researchers began to devise a more complicated conflict quantification method. These new methods would account for the severity of the conflict by estimating the "time to accident" (Glauz and Migletz, 1980), "time to collision" and "risk of collision" (Brown, 1991), or "severity of conflict" (Older and Spicer, 1976), depending on the researcher and his or her chosen operational definition.

Older and Spicer (1976) attempted to classify the severity of a conflict by operationally defining the driver reaction. They used the following definitions to assign a severity grade to the conflict. Note that the scale begins with "slight" (1) and ends with "serious" (5):

- (1) Precautionary braking or lane change (i.e. for vehicle waiting to enter junction) or other anticipatory braking or lane change when risk of collision is minimal
- (2) Controlled braking or lane change to avoid collision but with ample time to maneuver
- (3) Rapid deceleration, lane change, or stopping to avoid collision resulting in a near-miss situation. There is no time for steady controlled maneuver
- (4) Emergency braking or violent swerve to avoid collision, resulting in a very near-miss situation or minor collision
- (5) Emergency action followed by collision

Older and Spicer (1976) used film clips to test the reliability of these definitions across different raters and for the same at different times. They found that the more severe the conflict, the more reliable a rater was in identifying the conflict correctly. Observers were also very consistent in reporting the same rating for repeated conflicts. The same basic technique for evaluating severity of conflicts is still being used in England (Swain, 1986). However, this technique was modified to include ratings on four separate factors that delineated the intent of the original five-point rating scale. These four factors were added to achieve more reliable ratings and are summarized as follows with their associated levels:

- (1) Time before the possible collision that the evasive action commenced (long, moderate, or short)
- (2) Severity or rapidity of the evasive action (long, medium, heavy, or emergency)
- (3) Complexity of the evasive action (simple or complex)

- (4) Proximity of the vehicles involved when the evasive action is terminated (greater than two car lengths, one to two car lengths, one car length or less, minor collision, major collision)

In order to depart from the subjective nature of conflict rating and to better quantify severity, Glauz and Migletz (1980) used a method of conflict rating called "time to accident," originally defined by Hyden in 1975. Hyden (1975) defined the time interval to include the time from when a conflicted vehicle reacts (brakes or swerves) until a collision (or near-miss) would have occurred had there been no reaction. Specifically, a conflict was defined to be severe if the time-to-collision value was less than the threshold of 1.5 seconds. For Glauz and Migletz's (1980) research, this interval was determined by trained observers, not by using film or special data reduction techniques. This time to accident analysis can also be conducted using video equipment (Kruyssen and Wijnhuizen, 1992). The time to accident definition, with a few modifications, is still being utilized by traffic engineers in Sweden for TCT research (Ekman, 1986).

The Dutch use a conflict observation technique they call "DOCTOR," which stands for Dutch Objective Technique for Operation and Research (van der Horst and Kraay, 1986). In order to classify the danger of a conflict situation, the severity of a conflict is scored on a scale from 1 to 5. The scoring considers: (1) the probability of a collision, and (2) the extent of the consequences. The probability of a collision is determined by the "time to collision" (TTC). The TTC is defined as the time remaining until two road users on a collision course will collide if course and speed remain unaltered. The lower the TTC, the greater the chance of a collision. According to van der Horst and Kraay (1986), only TTC's of less than 1.5 seconds constitute a potentially dangerous situation. The concept of TTC requires a collision course. However, in cases where no collision course exists, a "Post-Encroachment Time" (PET) is used. PET is defined as the time between the moment that the first road user leaves the path of the second road user and the moment that the second reaches the path of the first (see figure 16).

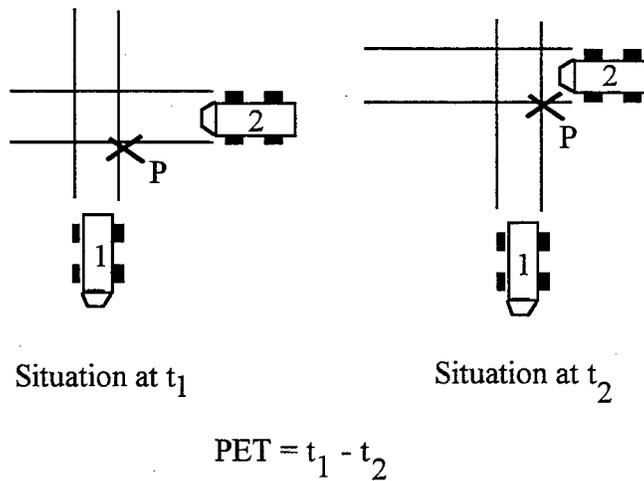


Figure 16. Definition of PET, Post-Encroachment Time

The other element in conflict severity scoring using the DOCTOR system is the extent of the consequences if a collision had occurred. This is mainly dependent upon the potential collision energy and the vulnerability of the vehicles involved. Factors that influence these aspects include the mutual difference in speed, the available and necessary space for maneuver, the angle of approach, and the type or road user. Estimates of this value are made less ambiguous by a specially constructed data collection sheet (see van der Horst and Kraay, 1986). Brown (1991) used a very similar definition for the DOCTOR method in his research on Canadian roadways.

Within an article by Sayed, Brown, and Navin (1994), the TTC concept is again utilized and modified to suit the specific study purpose, in this case for a simulator study. Sayed and his associates did not develop the original definitions, however. The author who is credited for the initial work is Hayward (1972). The concept is the same as Hyden's study, but the minimum threshold value is 1 second, not 1.5 seconds. Just as the original traffic conflict definitions were modified with each subsequent study, the concept of severity quantification of traffic conflicts is also inconsistent across differing study designs. Some researchers record multiple severity levels ranging from precautionary actions to collisions (Older and Spicer, 1976), some have only two severity levels (slight or serious;

Risser, 1985), while still others tightly control TTC values into three categories (0 to 0.9 sec., 1.0 to 1.5 sec. and 1.6 to 2.0 seconds; Brown, 1991). There is also a wide variance in the way this severity value is estimated, from human observers on the street (Older and Spicer, 1976) and filmed observation (Kruyssen and Wijlhuizen, 1992), to detailed computer analysis (Sayed et al., 1994). Again, these differences in technique application make it difficult to compare results across studies.

Validity and Reliability

There have been multiple papers written regarding the validity, reliability, and prediction power of the accident/conflict ratio (Glennon et al., 1977; Williams, 1981; Zimolong, 1981; Hauer and Gårder, 1986). Unfortunately, many of the first checks of validity overestimated the power of the technique (Glennon et al., 1977), and because of this, overreliance on the predictive quality of the TCT's data has been perpetuated. The concept of a reliable predictive measure for accident rate has apparently been such a desirable goal that some researchers have failed to consider the shortcomings of conflict-based estimates. Still others were inspired to solve the inherent problems associated with the developing technique. This section will discuss the general shortcomings of using conflicts to predict accident rates and explore the positives and negatives of the TCT.

As discussed previously, there are substantial differences across study designs that hinder the comparability of the TCT as a whole. Shinar (1984) and Kruyssen and Wijlhuizen (1992) have described the problems of the subjective nature of the TCT rating method. According to Kruyssen and Wijlhuizen (1992), observers use internal sources of bias in judging conflicts, even after thorough training. The researchers showed filmed traffic conflicts to both experienced traffic engineers and lay people and concluded that:

- Experts and lay persons are equally reliable when judging traffic conflicts.
- Experts and lay persons base their judgments of traffic on the same concept of dangerousness.

- Experts do not base their judgment of traffic conflicts on aspects that they regard as important for that conflict, but rather the same concept of dangerousness as used by lay persons.

When even trained observers do not use the conflict definitions accurately, this further complicates the problem of highly variant results within and across studies.

In early validity studies conducted on the TCT, Glennon et al. (1977) point out that researchers confused the finding of an association between accidents and conflicts with the ability to generalize to broader statements regarding the technique's predictive abilities. For example, Glennon and his associates state that only the first of seven different results of the 1969 FHWA-sponsored review conducted by Baker are actually supported by the research effort. The seven results were as follows:

- (1) The data supported the hypothesis that conflicts and accidents are associated.
- (2) Safety deficiencies at intersections can be pin-pointed more quickly and reliably by using TCT than by using conventional methods.
- (3) TCT is particularly valuable at low-volume rural intersections where accident reporting level is low.
- (4) TCT, because of its usefulness in pinpointing intersection problems, should lead to low-cost remedial actions.
- (5) TCT can be applied, with minor modifications, to locations other than intersections.
- (6) The effect of intersection improvements may be demonstrated by TCT shortly after completion of a spot improvement.
- (7) The general surveillance information obtained with TCT may be valuable in improving operations of intersections.

While it may be true that correlations between accidents and conflicts can be found, the generalization of the meaning of conflict rates should be handled with care. Glennon et al.

(1977) point out that accidents are also highly correlated with traffic flow (in some cases more so than with conflicts). Therefore, it is possible to consider measures other than TCT for prediction of accidents.

Vast differences in application of definitions and procedures when applying the TCT is just one biasing factor when combining study results in order to estimate accidents. Hauer and Gårder (1986) developed two statistical formulas to measure the validity of indirectly judging safety through the use of traffic conflict counts. The formulas were tested with a simulation of computer-derived conflict counts and accident data. According to Hauer and Gårder (1986), the formulas are accurate and would be appropriate for the use of validity- checking TCT studies regardless of the exact research method. One assumption that Hauer and Gårder (1986) made is that the rate of conflicts and accidents follows a Poisson distribution. Glauz and Migletz (1980) and Glauz, Bauer, and Migletz (1985) point out that the number of conflict counts in field experiments tend to be small quantities with large variance. That is, they come from a very skewed distribution such as a negative binomial rather than a normal distribution. The Poisson distribution has a variance equal to its mean, but Glauz et al. (1985) show that this is far from the truth for conflict data; the variance is often 10 to 100 times as large as the mean. If this is true, it would make the usefulness of the Hauer and Gårder (1986) formulas questionable, as one of their primary assumptions would be incorrect.

Williams (1981) points out that there are several problems with the use of accidents as the measure to check TCT validity or in the creation of an accident/conflict ratio. The major issue is that all recorded attempts to link traffic conflicts to accidents have used unreliable accident data as a source of validity checking or estimation. As Williams points out, it seems illogical for a new research tool to be proven with data gained from the unreliable research tool it is to replace. Williams (1981) and Glauz et al. (1985) point out that accident data collected year by year is highly variable. Large fluctuations can be found in the recorded accident rate for any one year. Williams (1981) cites research by Pugh and Halpin (1974) showing correlations between accidents in successive years that range from 0.62 to 0.69. Zegeer and Deen (1978) found the correlation between accidents in

successive years to be 0.64 for 60 intersections in Kentucky. The 95 percent confidence limit for this relationship was ± 10.9 accidents per year, and the average number of accidents per year at the intersections was only 11.1. This indicates that an error of 100 percent in either direction was possible in predicting accidents from one year to the next. Campbell and Ellis King (1969) conducted a TCT study and used the total of all accident types that occurred at their research site in the development of accident/conflict ratios. They pointed out that a 3-to 5-year accident record should be used when making these estimations and that their results would have changed dramatically had there been only one more accident at any of the intersections they used in their observation. They stress the unreliable nature of small sample sizes in making inferences onto future occurrences involving the entire population of road users.

The definition of an accident is highly variant in and of itself. Just as the problem arose in the use of different conflict definitions, no two researchers define accidents the same way. The level of severity of an accident is of considerable importance; accidents can range from property damage, to injury, to fatalities. Some researchers include all accident types in their definition, while others limit the accidents to a particular type. According to Williams (1981), this is important because behavior of the driver will vary greatly depending upon which of these accident types the driver is avoiding. Williams (1981) shows, for example, that property damage accidents are poor predictors of fatal accidents. Traffic conflicts are not accidents, but they are probably closer predictors of minor property damage accidents than fatality accidents. Williams (1981) created a model that has a range that encompasses conflicts and the different accident types. Accidents are of the greatest severity when a fatality occurs and personal injury accidents are less severe, but more so than property damage accidents. Another category of accident is minor altercations where the accident is not reported to police and therefore it is not included in the accident rate calculation. Behind these accident categories fall traffic conflicts in Williams' (1981) continuum. Conflicts range from the most severe conflict to minor slow downs. One of the problems with TCT validity is the fact that this range of categories is often over-simplified in calculating conflict and accident rates and accident/conflict ratios. Williams (1981) has shown that it may not even be appropriate to compare neighbors on

the continuum, let alone across the two extremes of the continuum. The conclusion to be drawn is that estimation of conflict/accident ratios should be carefully defined. That is, severe accidents should not be directly estimated from minor traffic conflicts.

Evidence shows that conflict rate does not always indicate the true nature of the accident problem. Campbell and Ellis King (1969) noted that even though they observed many rear-end conflicts at one intersection, the historical accident record only showed one accident of this type. These conflicts occurred at low speed and thus were avoidable, or the researchers postulated that the resulting accidents were so minor that they went unreported. At the same intersection, Campbell and Ellis King (1969) noted that cross and through traffic conflicts were very good reflections of the accident record. While they did not rate severity because they used the GM method of observation, they anecdotally observed these conflicts as being the most severe, and therefore believed that a strong correlation between this type of conflict and a reportable accident exists.

Based upon the issues of validity, reliability, and inconsistency across TCT studies, the value of reporting results from specific research papers is questionable if these data are to be melded into a single quantitative rating of driver safety. It is clear from the papers reviewed here that the TCT studies conducted to date are still on an evolutionary path towards the development of a surrogate measure for accident rate. Individual results may be useful for specific design situations, re-design of a specific intersection, or an evaluation of a change in an existing design. Projecting accident/conflict ratios from specific TCT studies onto other intersections seem to go beyond the bounds of generalizability given the biases associated with the technique in general. This literature review will therefore serve as enlightenment to the process and will not provide specific conflict/accident ratios for prediction purposes.

Implications for Near-Miss Data Analysis

One weakness of TCT is the lack of a specific set of operational definitions and procedures. A successful safety analysis technique will have to be robust enough to apply to multiple evaluation situations, flexible enough to meet specific research needs, yet

structured enough so that a data base can be built up to check validity and reliability of the evaluation tool and promote meta-analyses across studies. Glauz et al. (1980) point out that the inherent random fluctuations in accident and near-miss events make it necessary for both accidents and near-misses to have tight definitions if they are to be utilized in technique review. In addition, an important factor is the sample size. The larger the sample available to draw from, the greater the capability of the technique to make valid inferences. This has implications for future camera car type studies which often have only small subject runs and few recorded near-misses, and operational field tests which have larger samples but yet-to-be-defined methods for near-miss detection and analysis.

Traffic flow and density should be a variable that is carefully controlled or accounted for, based upon the findings of the reviewers of the TCT. Increased risk is associated with exposure, and should not be overlooked in future experimental designs. One of the conclusions of Glauz and Migletz (1980) was that traffic conflicts and traffic conflict rates (especially severe conflicts) increase substantially throughout the mid-afternoon and late afternoon. Time of day is therefore also a variable that may be necessary to control. Multiple recording days are also recommended, with a mixture of days of the week. Some conflict types are also more prevalent than others. Cross-traffic and opposing left-turn are usually most prevalent, and are serious safety problems at intersections. Rear-end accidents seem to be more strongly associated with main line traffic flow than rear-end conflict rate. Designing a new technique considering these findings may be useful.

Discussions by Williams (1981) seem to support the notion used in the original TravTek evaluation that quantification of accident severity potential is a concept worth maintaining. Williams states that different behaviors will be apparent preceding different accident severity outcomes. This may transfer to the different levels of near-miss behavior that will be observed in a camera car study. The concept of separating the driver, the vehicle, and the environment is also similar to the approach used in the original TravTek method. Environmental proximity was the operationally defined measure for the environment. Driver performance flags served as the primary means of focusing the analysis, and the

entire focus of the study revolved around changes to the vehicle and its effect on the driver.

For the original TravTek analysis, considerable effort was expended in the quantification of driver behavior that was not defined as near-misses as but "safety-related errors." These were errors that varied in the environmental proximity of a hazard but were not necessarily unsafe. Safety-related driving errors could be compared to the very minor conflicts recorded as part of the TCT model. In addition, it is apparent that recording driver workload through performance measures and generalizing this effort to safety, as was done in the TravTek studies, will have to be conducted with consideration of the relative validity of the estimators.

Review of the literature related to the TCT revealed several insights into the project goal of re-designing a near-miss safety evaluation method. These insights and the resulting methods were further evaluated and refined as part of the creation of the near-miss database.

DEVELOPMENT AND CONSTRUCTION OF THE NEAR-MISS DATABASE

The original TravTek database was parsed into one-minute segments and reanalyzed for each of the 38 near-misses determined as part of the original TravTek study. These data are available in electronic form on diskette as an addendum to this report. In addition, a description of these data along with a printed version of the data appear as Appendix A.

A videotape that is categorized and synchronized to the computerized database is provided as an addendum to this report. A description of the content of the tape appears as Appendix B.

From this database, a reduced set of data was created utilizing knowledge acquired from analyzing previous traffic conflict data and the GES variables. A primary objective of this database was to establish a comprehensive set of classification variables that described the near-miss and the circumstances leading up to the near-miss. The selection and description of these classification variables is described in the following paragraphs.

ANALYSIS OF POTENTIAL NEAR-MISS VARIABLES AND THEIR INCLUSION IN THE NEAR-MISS DATABASE

In order to develop a comprehensive database of information about near-misses that occur in operational tests such as the TravTek Camera Car Study, it was necessary to combine variables from multiple sources. Variables were chosen based on the amount of information they could provide about the events before, during, and just after the near-miss. The sources used to help identify and define variables include the 1993 GES, relevant TCT literature, the TravTek Safety Analysis, and experimental variables associated with the TravTek Camera Car Study. Several additional variables were added as a result of analyzing the TravTek pre-near-miss data to provide a more comprehensive picture of the events before the near-miss and to assure forward compatibility with future evaluation studies.

Once it became apparent that variables would be combined from multiple sources, it was decided to start with the 1993 GES as the basis for creating the database. The GES was the most comprehensive listing of variables and would likely contain many of the variables that were discovered from other sources. Each of the variables in the 1993 GES were evaluated for their relevance and importance to the topic, including how well they supported the future goals of the near-miss database. Many of the variables were well suited for inclusion in the database because they were designed to describe the conditions, environment, and equipment associated with automobile accidents. It then follows that they are also desirable for describing the same characteristics of near-misses. A number of variables in the GES are used to describe the circumstances surrounding the actions of the primary driver and other drivers before, during, and after a collision occurs. Because the primary concern of this database is to record information about “near-misses,” the GES variables that described the collision were modified to reflect what most likely would have happened if the near-miss would have been an actual collision. Those GES variables that are used to describe the collision, but probably could not be reliably determined from an analysis of the videotape, were eliminated from this database to conserve space and maintain validity. If a collision would ever occur under operational testing conditions, there is a variable included to indicate the number of the corresponding GES record.

During the review of TCT-related literature, several variables were identified that were common to many previous conflict analyses. One example of this is the “time-to-collision” variable that has been used to help quantify the severity of the near-miss. The safety evaluation performed during the TravTek Camera Car Study was also analyzed, resulting in the inclusion of several additional variables used to classify and quantify near-misses. The variables were reviewed to be sure that the database would be complete and would incorporate changes brought about by lessons learned during the TravTek Camera Car Study safety evaluation.

The last series of variables added to the database were included to make a record of the electronic data that was recorded before, during, and slightly after the near-misses. The

data include the variables collected electronically by the test vehicle instrumentation and the eye-glance data gleaned from the videotape analysis.

The resulting set of variables represents a comprehensive, first-cut at a standardized format for analyzing and archiving near-miss data. These variables, and their associated operational definitions, are shown in Table 1 of Appendix C. The origin of each variable in Table 1 of Appendix C is indicated by the information in parentheses after the variable name. For instance, if the variable originated from the GES database, (*GES ges variable id*) will follow the variable name. Other possible origins of variables include TravTek (TravTek), traffic conflict technique literature (TCT Lit), and those that were created specifically for this database (blank). If in future studies an accident occurs rather than just a near-miss, a corresponding full GES classification could also be generated and referenced in this database.

CONSTRUCTION OF THE NEAR-MISS DATABASE

The reduced TravTek data set (Appendix A) and the TravTek near-miss videotape were reanalyzed to assess the variables described in Table 1 of Appendix C and construct a near-miss database in the standardized format described above. From the videotape and data records, many of the variables shown in Table 1 of Appendix C were successfully analyzed. Several variables, including time-to-collision, could not be gathered due to limitations in the TravTek data. These limitations were present either because: (1) they were not considered as part of the original experimental planning, or (2) the data collection system was not capable of providing the data. Note that these limitations can be used as guidelines for data collection capabilities for future studies and systems. That is, if the format shown in Table 1 of Appendix C (or something similar) is adopted as a standard for future systems, the resulting data requirements will lead to improved data collection systems.

The Near-Miss Database is given in Appendix C. Utilizing the measure descriptions in Table 1 of Appendix C, the reader can interpret the data properly.

ANALYSIS OF THE NEAR-MISS DATABASE

An analysis of the Near-Miss Database was performed to assess selected variables that were not coded and analyzed as part of the original TravTek data set. The purpose of this analysis was to determine if the new near-miss data analysis methodology provided the potential for additional insights for safety assessments. Note that this analysis looked at only a subset of the most interesting variables and variable interactions. Note also that due to the small samples, no inferential statistics were performed. The reader is therefore cautioned to treat apparent differences among the conditions with caution.

The number of conflicts for differing traffic conflicts types is shown in figure 17. A number of the conflict types shown in Table 1 of Appendix C were not exhibited as part of the TravTek Camera Car study. In contrast, “lane change”-related conflicts were present in 13 instances. Near-misses not associated with another vehicle (i.e., “non-conflicts”) and “other” conflicts that did not fall into a particular category were also exhibited in a number of instances.

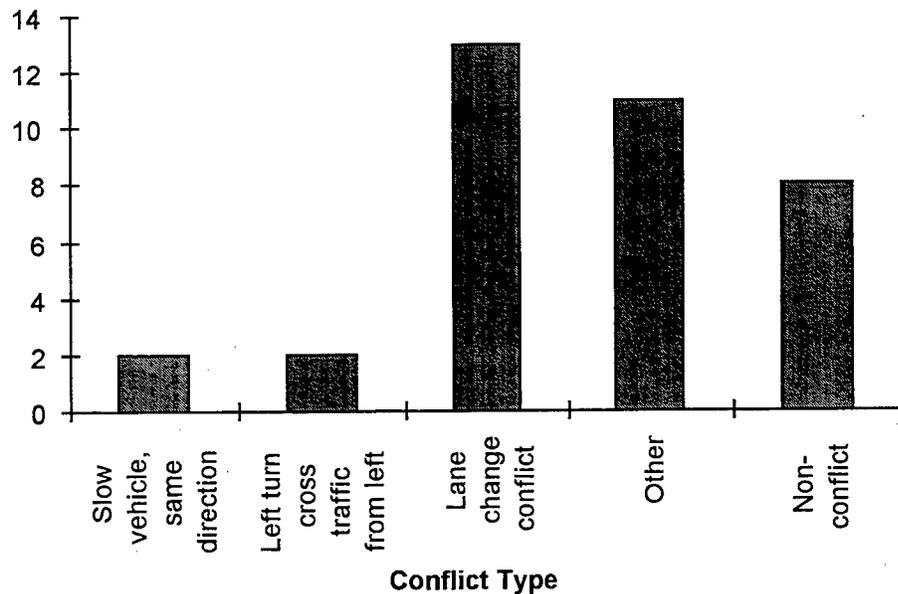


Figure 17. Number of conflicts for differing traffic conflict types.

Examples of environmental data provided by the near-miss database are depicted in figures 18 and 19. As shown, most conflicts occurred when there were one or two lanes of travel (figure 18) and when no traffic controls were present (figure 19). Note, however, that these variables do not address differing exposure to environmental conditions along the route. That is, they may well be representative of exposure to the various environmental conditions and not inherent differences caused by the conditions under test.

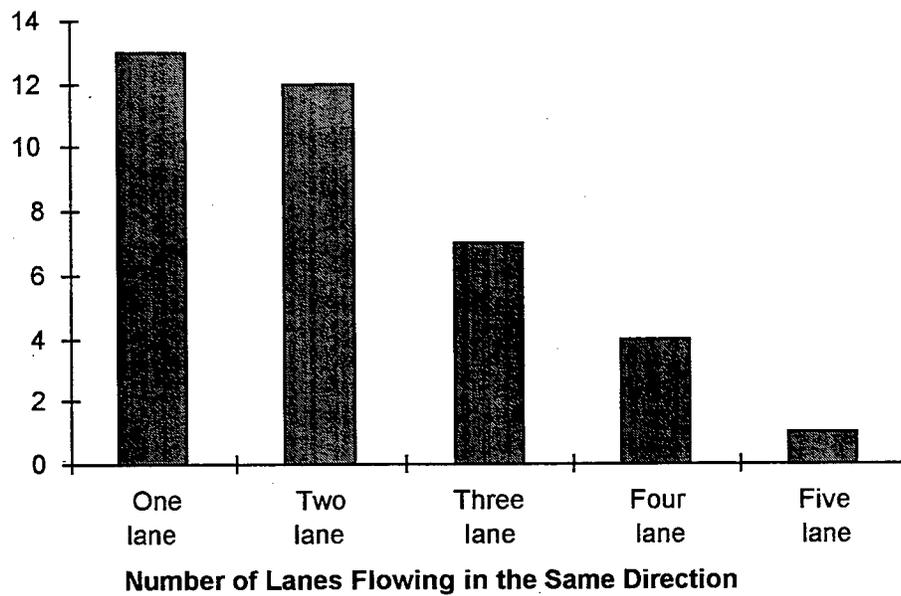


Figure 18. Number of conflicts for differing numbers of lanes of travel.

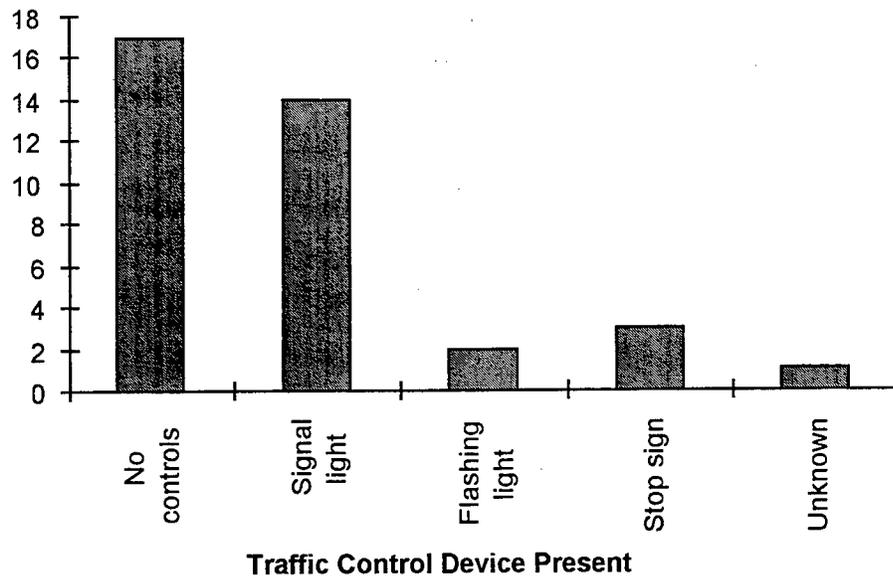


Figure 19. Number of conflicts for differing traffic control devices.

The movement of the subject vehicle just prior to the near-miss is depicted in figure 20. A large percentage of conflicts occurred while the driver was simply traveling on a straight section of road. This finding may represent the circumstances where drivers utilize navigation devices the most. That is, when drivers are traveling at speed on a straight section of roadway, the driving task-induced attention demand is low. Drivers may wait for these low demand periods to check the navigation aids for information. Note also that a number of conflicts occurred during lane change maneuvers. It is possible that the additional visual demand placed on the driver while navigating resulted in a reduced level of situation awareness just prior to attempting a lane change maneuver.

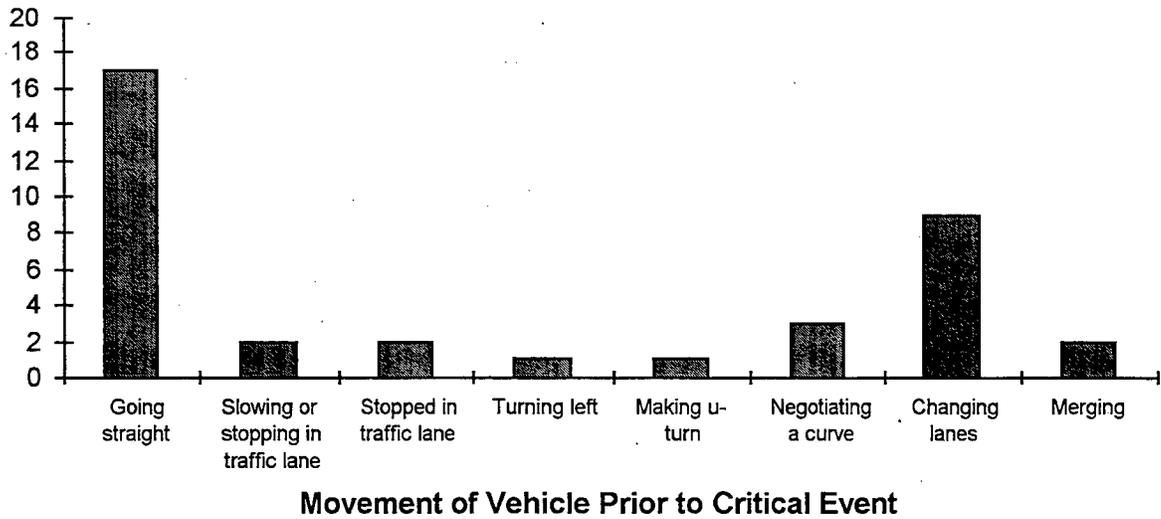


Figure 20. Movement of subject vehicle prior to each conflict.

Figure 21 shows the subject vehicle movement just prior to the near-miss broken down by visual display type. Although the frequencies are very low, the TravTek route map appeared to elicit the greatest number of near-misses for the “going straight” condition.

Figures 22 and 23 provide insight into the most likely harmful event. Most of the near-misses were in fact conflicts with other moving vehicles (figure 22). The TravTek route map condition resulted in the most two-vehicle traffic conflicts and the most “other non-collision” (e.g., run-off-road) cases, although the frequencies are again very small. It is interesting to note that in four cases, a run-off-road near-miss occurred for the route map condition, compared to zero or one for the other three conditions.

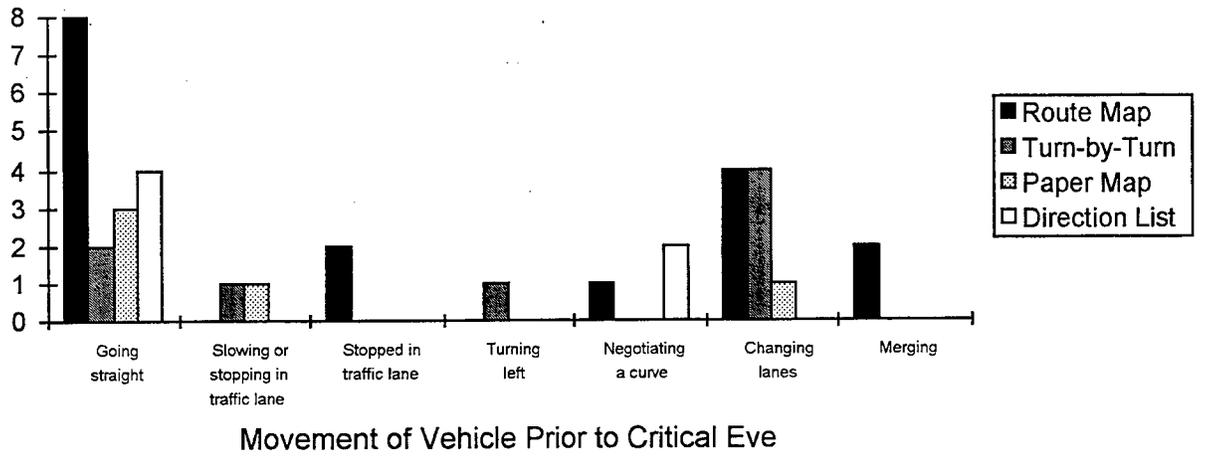


Figure 21. Movement of the subject vehicle by visual information display.

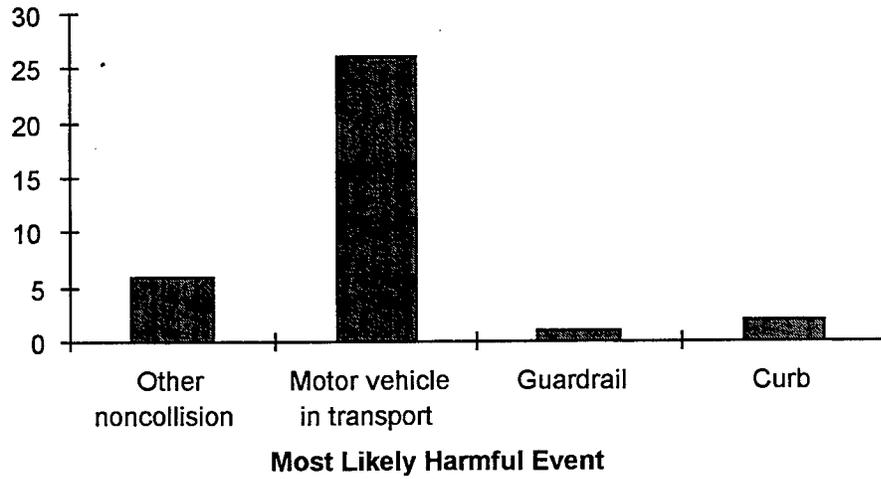


Figure 22. Number of conflicts for differing most likely first harmful events.

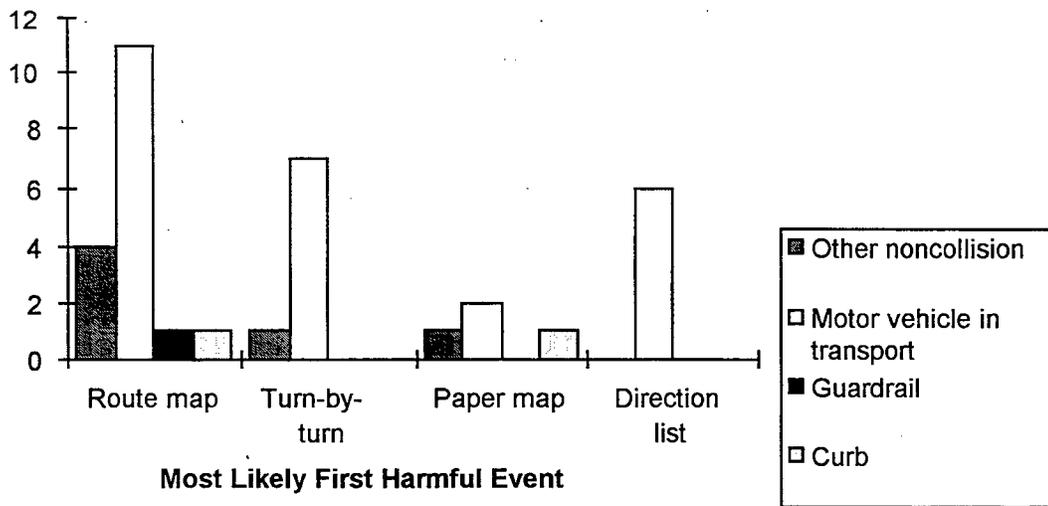


Figure 23. Most likely first harmful events by visual information display.

Figures 24 and 25 show the frequency of near-misses during periods of subject communication. A large number of near-misses occurred when the driver was either asking or being asked a question by the experimenter (figure 24). This may be a result of the relative time that the subject and experimenter were carrying on a conversation, or the conversation itself may have contributed to the near-miss rate. In any case, future in-vehicle experimental protocols may be wise to severely restrict conversations in instances where an experimenter is present.

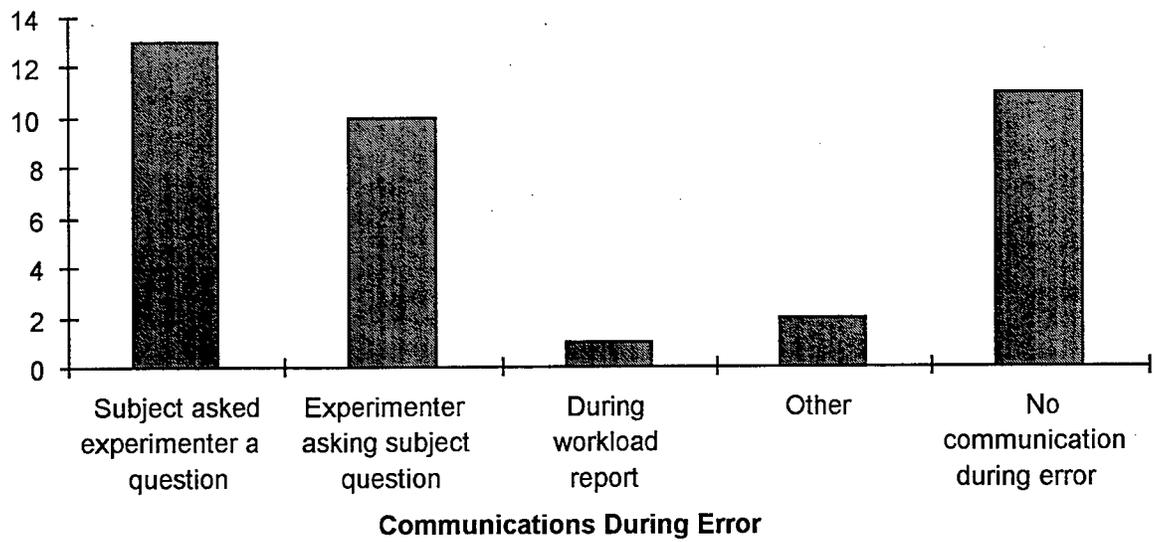


Figure 24. Number of conflicts during periods of communication.

Figure 25 shows the communications variable broken down by gender. Female subjects apparently had more near-misses while asking the experimenter a question than males. This finding, if reliable, might be due to the frequency of questions asked.

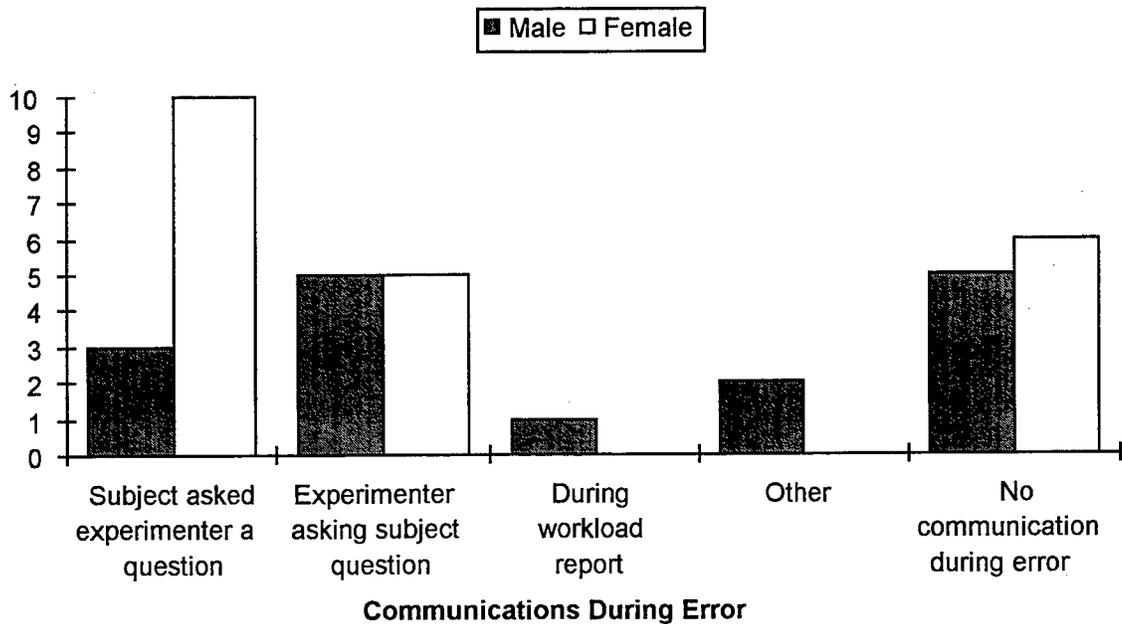


Figure 25. Number of conflicts during periods of communication by gender.

Figure 26 shows the corrective actions taken during the near-miss. In a large number of cases, drivers braked or slowed with no steering response to the near-miss circumstances.

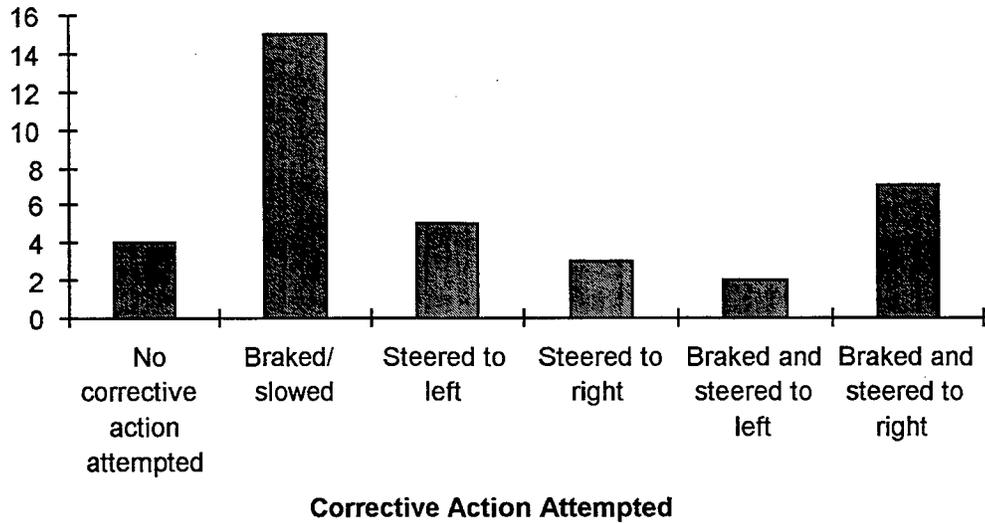


Figure 26. Corrective action attempted by subjects.

Whether the subject's attention was directed toward the system during the near-miss is shown in figure 27. As shown, attention was directed toward a navigation device in only about one-fourth of the cases just prior to the near-miss. This is an interesting finding, since most unsafe circumstances were apparently not a result of direct system interaction.

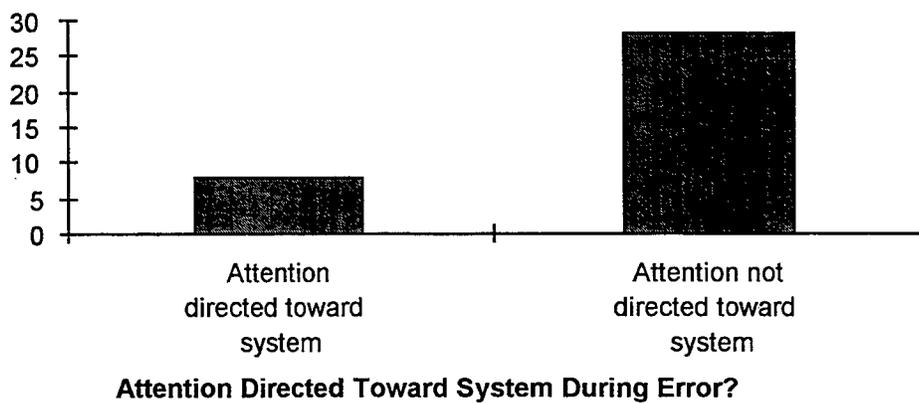


Figure 27. Number of conflicts while subject attention was directed toward the navigation devices.

Figure 28 shows the number of near-misses with and without the presence of an auditory display. Although there is a strong apparent benefit for auditory presentation, the reader is reminded that four of the six conditions had no auditory component. Even taking this exposure difference into account, the presence of auditory information showed an apparent benefit.

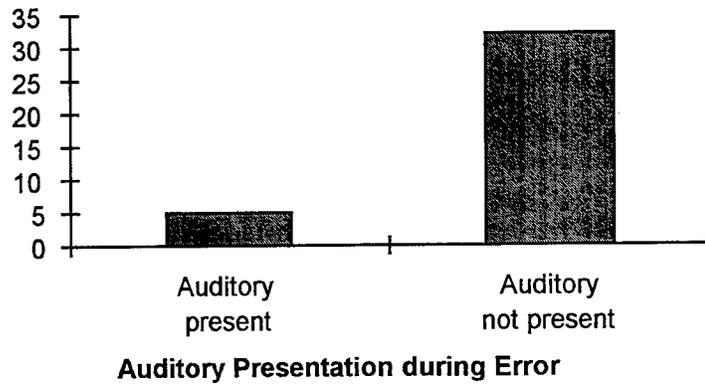


Figure 28. The number of conflicts with and without the presence of an auditory display.

CONCLUSIONS AND RECOMMENDATIONS

A potentially fruitful path in advancing the process of proactive safety prediction involves building a bridge between empirically measurable constructs and the direct prediction of safety. An approach to achieve this goal is to develop a standard methodology applicable, at least in part, to the archiving of near-crash data collected from a static location or an instrumented vehicle. This approach may eventually garner sufficient data such that a prediction link between near-misses/traffic conflicts and crashes can be established.

As shown in the abbreviated data analysis provided as part of this report, providing a comprehensive classification of near-miss circumstances has the potential to provide substantial insight into the proactive safety evaluation process, if carefully interpreted. If, in fact, multiple data sources or larger operational or fleet tests could be used to increase sample sizes, the technique may evolve into a very powerful safety assessment tool.

It appears feasible to build a useful empirically-based database centered around the concept of a near-miss. The traffic conflict technique, although somewhat controversial in the literature, has managed to develop more or less into a standard set of measurement techniques and operational definitions that guides data collection and analysis. In contrast, such agreement has never been reached by the empirical research community while measuring such constructs as “driving performance.” If a standard set of variables and associated definitions was established, the potential exists for utilizing a variety of empirical research tools to greater benefit. For example, data collected from DASCAR, SAVME, and the NADS, as well as other simulators and instrumented vehicles, could be archived such that selected comparisons between studies and meta-analyses could be accomplished. These data may eventually reach the point where an accurate link between driving performance and near-misses, and near-misses and crashes could be established.

This general approach has been suggested by Dingus (1995), who recommends:

- (1) The establishment/validation of a standardized method for the collection of near-miss data for instrumented vehicle studies (including the use of DASCAR).
- (2) The establishment/validation of a standardized method for the collection of near-crash data and crash data for high fidelity simulation environments (like the NADS).
- (3) The establishment/validation of a "black box" methodology to unobtrusively record both near-crash and precursor crash data in large numbers of vehicles as part of ITS safety evaluations.
- (4) An investigation into the use of the VME to collect automated traffic conflict/near-crash data.
- (5) Research aimed at collecting measures of performance and measures of effectiveness utilizing the above-referenced standard techniques during the conduct of safety evaluations for a variety of systems.
- (6) Research that attempts to integrate the data from the above sources to predict crash rates from measures of performance.
- (7) Systematic epidemiological studies that evaluate and validate various predictions made using the above techniques once systems are deployed.

Although this research represents a "first-cut" at a near-miss data standard, additional work is needed before it is suggested or required as part of future research. A refinement of the variable definitions, detailed specification of measurement and analysis techniques, and review by a panel of empirical research experts are logical next steps in this process.

The utilization of near-miss/traffic conflict data to improve the predictive capability of proactive safety evaluation appears to have merit. The approach provides a focus for emerging tools and techniques. In addition, as shown by the traffic conflict literature, it

may provide the best hope of eventually providing an accurate pre-deployment predictor of accident rates.

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APPENDIX A

TRAVTEK CAMERA CAR REDUCED DATA SET

VARIABLE EXPLANATIONS

The following is a description of the TravTek data that appears in this appendix. The one minute of data prior to each near-miss is provided. The numbers following an "@"

@2 subnum - Original TravTek subject number

@8 age - Age of the subject in years

@12 agegrp - Subject age group: 1 = 16-18; 2 = 35-45; 3 = over 65

@16 gender - Subject gender: 0 = female; 1 = male

@20 variable not coded for this analysis

@25 navcond - Navigation Condition: 1 = TravTek turn-by-turn w/voice; 2 = TravTek turn-by-turn w/o voice; 3 = TravTek route map w/voice; 4 = TravTek route map w/o voice; 5 = Paper direction list; 6 = Paper map

@33 xlataccn - mean lateral acceleration in g's

@43 vlataccn - variance in lateral acceleration

@53 xsteer - mean steering position in degrees

@63 vsteer - variance in steering position

@73 nsteer - number of steering wheel reversals greater than 6 degrees

@83 xlonaccn - mean longitudinal acceleration in g's

@93 vlonaccn - variance in longitudinal acceleration

@103 nbrake - number of frames (i.e., 30 frames/sec) that the brake was activated

@113 neglonac - maximum negative longitudinal acceleration in g's

@123 - brake activation time in seconds

@130 density - traffic density: 1 = light; 2 = moderate; 3 = heavy (see Dingus, et al., 1995)

@135 roadtype - Roadway type: 1 = residential street; 2 = two lane arterial; 3 = four lane arterial; 4 = limited access highway

@145 xspeed - mean speed in miles per hour

@155 vspeed - variance of speed

@165 begstmp - beginning time stamp for line of data (associated with the beginning of a subject glance) in seconds

@175 endstmp - ending time stamp for line of data (associated with the end of a subject glance) in seconds

@183 glanloc - location of subject glance:

1 = Roadway Forward Center (from approximately +20 degrees to -20 degrees from dead center of the driver's field of view.)

2 = Roadway Forward Left (from approximately 20 degrees to 60 degrees left of center.)

3 = Roadway Forward Right (from approximately 20 degrees to 60 degrees right of center.)

4 = Center Rear-view Mirror

5 = Left Rear-view Mirror

6 = Right Rear-view Mirror

7 = Left Blind Spot

8 = Right Blind Spot

9 = Vehicle Forward Instrument Panel

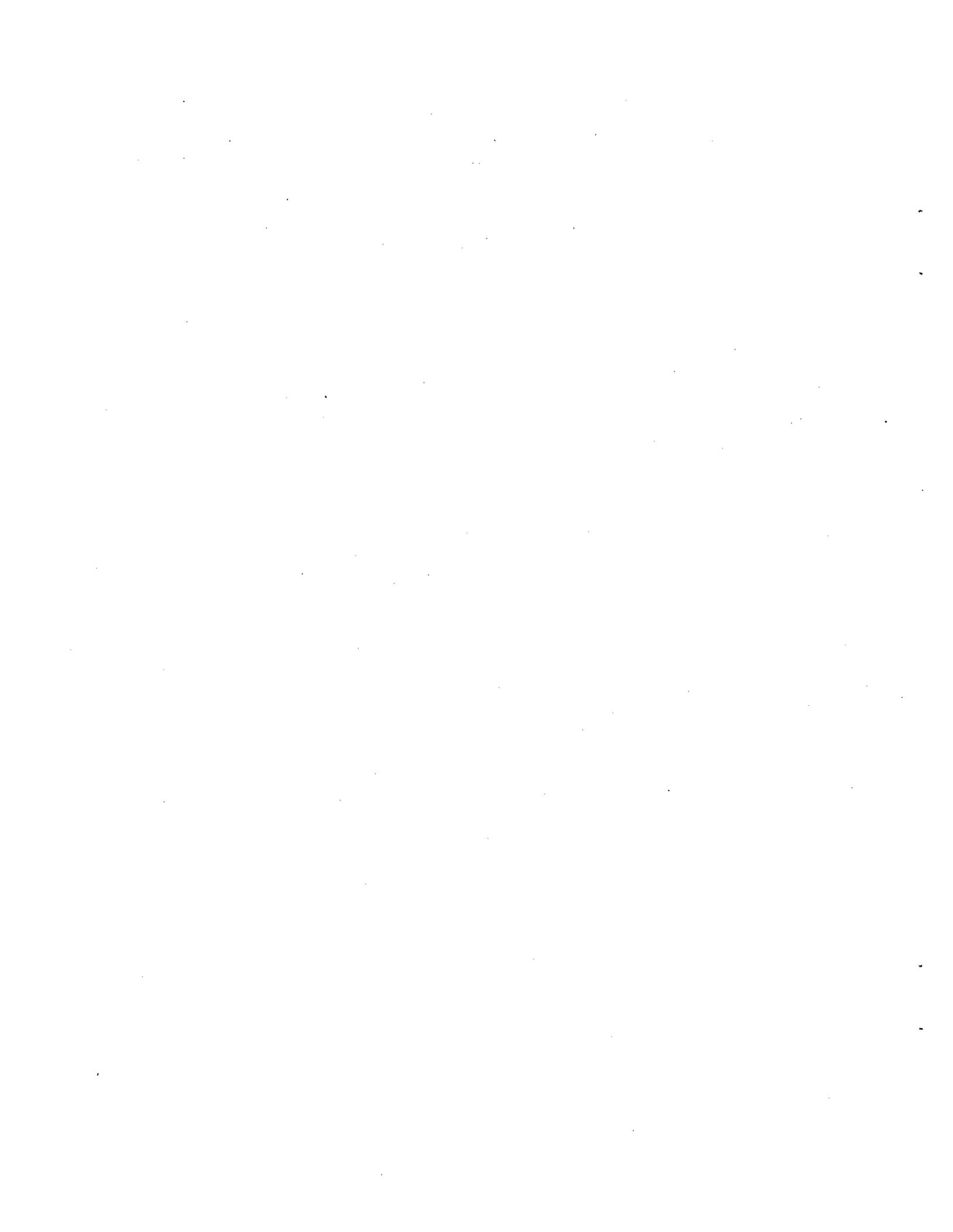
10 = TravTek/Radio/HVAC Vehicle Information Center (VIC)

11 = Roadway Signs

12 = Other Environmental Objects

13 = Other In-Car Objects

@193 longlanc - length of glance in seconds



11471	37	2	0	0	6	-0.003	0.001	-0.875	11.245	1	0.027	0.001	0	0.00	0.00	1	3	48.00	0.00	1175.22	1178.04	1	2.82
11471	37	2	0	0	6	0.000	0.000	1.000	0.000	0	0.055	0.000	0	0.00	0.00	1	3	48.00	0.00	1178.07	1178.13	5	0.06
11471	37	2	0	0	6	-0.010	0.000	0.500	0.333	0	0.020	0.000	0	0.00	0.00	1	3	48.00	0.00	1178.16	1178.28	1	0.12
11471	37	2	0	0	6	-0.010	0.000	0.667	1.333	0	0.000	0.000	0	0.00	0.00	1	3	48.00	0.00	1179.01	1179.10	3	0.09
11471	37	2	0	0	6	0.098	0.012	-12.909	148.023	1	0.010	0.000	0	0.00	0.00	1	3	46.12	3.99	1179.13	1182.22	1	3.09
11471	37	2	0	0	6	-0.050	0.001	4.667	9.333	0	0.010	0.000	0	0.00	0.00	1	3	48.00	0.00	1182.25	1183.04	5	0.79
11471	37	2	0	0	6	0.173	0.011	-21.387	140.112	1	0.008	0.000	0	0.00	0.00	1	3	45.81	3.90	1183.07	1186.10	1	3.03
11471	37	2	0	0	6	0.145	0.000	-15.000	2.000	0	0.000	0.000	0	0.00	0.00	1	3	44.50	0.50	1186.13	1186.19	3	0.06
11471	37	2	0	0	6	0.039	0.035	-2.985	547.203	0	0.016	0.001	0	0.00	0.00	1	3	44.15	6.13	1186.22	1193.07	1	6.85
11471	37	2	0	0	6	-0.007	0.018	1.178	299.114	1	0.026	0.001	24	-0.09	0.80	1	3	43.82	8.10	1193.10	1202.10	1	9.00
11471	37	2	0	0	6	-0.160	0.000	23.600	0.800	0	0.048	0.000	0	0.00	0.00	1	3	40.00	0.00	1202.13	1202.28	3	0.15
11471	37	2	0	0	6	-0.035	0.006	6.250	114.022	0	0.047	0.000	0	0.00	0.00	1	3	42.58	3.65	1203.01	1205.13	1	2.12
11471	37	2	0	0	6	0.020	0.004	2.000	28.667	0	0.060	0.000	0	0.00	0.00	1	3	41.75	4.25	1205.16	1205.28	5	0.12
11471	37	2	0	0	6	0.030	0.001	-0.714	0.571	0	0.047	0.000	0	0.00	0.00	1	3	43.57	1.29	1206.01	1206.22	6	0.21
11471	37	2	0	0	6	0.023	0.000	-0.833	0.567	0	0.040	0.000	0	0.00	0.00	1	3	44.00	0.00	1206.25	1207.13	1	0.88
11471	37	2	0	0	6	0.035	0.001	-0.750	0.250	0	0.038	0.000	0	0.00	0.00	1	3	44.00	0.00	1207.16	1207.28	8	0.12
11471	37	2	0	0	6	0.003	0.000	-0.667	0.267	0	0.035	0.000	0	0.00	0.00	1	3	44.00	0.00	1208.01	1208.19	6	0.18
11471	37	2	0	0	6	-0.005	0.000	0.188	1.096	0	0.024	0.000	0	0.00	0.00	1	3	44.00	0.00	1208.22	1210.10	1	1.88
11471	37	2	0	0	6	-0.012	0.002	0.368	32.023	1	0.011	0.000	0	0.00	0.00	1	3	43.53	1.37	1210.13	1212.10	3	1.97
11471	37	2	0	0	6	0.015	0.003	-2.731	35.165	0	0.013	0.001	0	0.00	0.00	1	3	42.04	3.72	1212.13	1215.01	1	2.88
11471	37	2	0	0	6	-0.029	0.006	0.000	88.000	0	0.006	0.000	0	0.00	0.00	1	3	42.71	2.91	1215.04	1215.25	5	0.21
11471	37	2	0	0	6	0.010	0.001	111.961	22248.525	1	-0.026	0.013	0	0.00	0.00	1	3	23.80	431.38	1215.28	1226.07	1	10.79
11471	37	2	0	0	6	0.015	0.000	0.333	2.267	0	0.080	0.000	0	0.00	0.00	1	3	47.50	1.50	1226.10	1226.28	4	0.18
11471	37	2	0	0	6	0.011	0.001	107.696	23035.412	2	-0.075	0.019	16	-0.12	0.53	1	3	22.86	427.76	1227.01	1232.19	1	5.18
11471	37	2	0	0	6	0.005	0.000	-2.273	35.418	1	-0.152	0.014	11	-0.12	0.37	1	3	39.55	18.87	1232.22	1233.25	11	1.03
11471	37	2	0	0	6	0.032	0.002	-20.588	1828.632	0	-0.231	0.021	17	-0.23	0.57	1	3	25.94	167.93	1233.28	1235.19	1	1.91
11471	37	2	0	0	6	0.063	0.003	-30.429	923.286	0	-0.380	0.011	7	-0.28	0.23	1	3	28.71	55.24	1235.22	1236.13	10	0.91
11471	37	2	0	0	6	0.075	0.003	-33.500	533.667	0	-0.445	0.005	4	-0.40	0.13	1	3	27.25	22.92	1236.16	1236.28	1	0.12
11471	37	2	0	0	6	0.085	0.000	-37.500	480.500	0	-0.470	0.002	2	-0.44	0.07	1	3	27.00	8.00	1237.01	1237.07	4	0.06
11471	37	2	0	0	6	0.088	0.002	-66.800	250.200	0	-0.398	0.011	5	-0.51	0.17	1	3	18.60	25.80	1237.10	1237.25	1	0.15
11471	37	2	0	0	6	0.032	0.003	-5.375	9480.268	0	-0.213	0.017	8	-0.40	0.27	1	3	11.50	29.43	1237.28	1238.22	6	0.94
11471	37	2	0	0	6	-0.002	0.000	157.455	26905.473	0	-0.091	0.006	11	-0.28	0.37	1	3	6.27	11.22	1238.25	1239.28	1	1.03
11471	37	2	0	0	6	-0.005	0.000	276.692	4556.301	0	-0.006	0.002	26	-0.10	0.87	1	3	1.46	6.26	1240.01	1242.19	1	2.18
11531	36	2	0	0	4	-0.008	0.001	9.147	12.493	0	0.151	0.005	0	0.00	0.00	3	3	21.62	92.43	815.19	819.01	1	3.82
11531	36	2	0	0	4	-0.005	0.001	8.615	2.256	0	0.145	0.001	0	0.00	0.00	3	3	22.08	14.24	819.04	820.13	3	1.09
11531	36	2	0	0	4	0.003	0.000	8.167	0.567	0	0.147	0.001	0	0.00	0.00	3	3	21.83	4.17	820.16	821.04	1	0.88

11531	36	2	0	0	4	-0.027	0.001	11.167	7.970	0	0.140	0.001	0	0.00	0.00	3	3	25.75	9.11	821.07	822.13	3	1.06
11531	36	2	0	0	4	0.047	0.022	-23.200	3362.278	0	0.016	0.007	0	0.00	0.00	3	3	31.49	45.01	822.16	829.16	1	7.00
11531	36	2	0	0	4	-0.062	0.001	11.400	6.800	0	0.062	0.000	0	0.00	0.00	3	3	34.60	1.80	829.19	830.04	3	0.85
11531	36	2	0	0	4	-0.010	0.001	0.400	32.500	1	0.032	0.001	0	0.00	0.00	3	3	38.20	5.17	830.07	832.22	1	2.15
11531	36	2	0	0	4	0.004	0.000	-2.000	4.615	0	0.033	0.001	0	0.00	0.00	3	3	39.07	2.84	832.25	834.07	3	1.82
11531	36	2	0	0	4	0.090	0.021	-34.095	3304.539	1	0.020	0.009	19	-0.08	0.63	2	3	31.14	54.03	834.10	840.19	1	6.09
11531	36	2	0	0	4	-0.013	0.000	-0.500	5.667	0	-0.097	0.000	4	-0.09	0.13	2	3	34.50	3.67	840.22	841.04	3	0.82
11531	36	2	0	0	4	0.144	0.028	-54.974	4383.324	0	0.023	0.014	38	-0.13	1.27	2	3	26.42	28.74	841.07	845.01	1	3.94
11531	36	2	0	0	4	0.326	0.013	-135.818	2402.964	0	-0.075	0.001	11	-0.15	0.37	2	3	21.55	3.87	845.04	846.07	1	1.03
11531	36	2	0	0	4	0.375	0.002	-157.333	565.867	0	-0.083	0.001	6	-0.13	0.20	2	3	20.83	2.57	846.10	846.28	3	0.18
11531	36	2	0	0	4	0.409	0.001	-167.429	214.286	0	-0.033	0.005	6	-0.11	0.20	2	3	20.00	0.00	847.01	847.22	5	0.21
11531	36	2	0	0	4	0.420	0.000	-178.250	2.250	0	-0.030	0.002	0	0.00	0.00	2	3	20.00	0.00	847.25	848.07	2	0.82
11531	36	2	0	0	4	0.107	0.023	-35.355	3476.169	0	0.073	0.013	0	0.00	0.00	2	3	29.97	49.57	848.10	851.13	3	3.03
11531	36	2	0	0	4	0.037	0.001	-10.333	35.867	0	0.173	0.001	0	0.00	0.00	2	3	26.67	4.67	851.16	852.04	1	0.88
11531	36	2	0	0	4	0.024	0.000	-7.400	6.800	0	0.176	0.000	0	0.00	0.00	2	3	28.20	3.20	852.07	852.22	9	0.15
11531	36	2	0	0	4	0.018	0.000	-3.600	10.711	0	0.132	0.001	0	0.00	0.00	2	4	32.30	10.23	852.25	853.25	10	1.00
11531	36	2	0	0	4	0.012	0.000	-2.600	1.800	0	0.134	0.000	0	0.00	0.00	2	4	33.20	3.20	853.28	854.13	1	0.85
11531	36	2	0	0	4	0.009	0.000	-2.818	4.364	0	0.087	0.001	0	0.00	0.00	2	4	35.18	2.56	854.16	855.19	10	1.03
11531	36	2	0	0	4	0.020	0.002	0.250	102.543	0	-0.018	0.019	0	0.00	0.00	2	4	32.25	29.33	855.22	858.04	1	2.82
11531	36	2	0	0	4	0.034	0.001	-2.100	11.656	0	-0.127	0.018	0	0.00	0.00	2	4	35.10	16.54	858.07	859.07	7	1.00
11531	36	2	0	0	4	0.045	0.001	-2.900	16.100	0	-0.151	0.011	8	-0.26	0.27	2	4	32.70	25.34	859.10	860.10	1	1.00
11531	36	2	0	0	4	0.027	0.000	-1.000	1.000	0	-0.227	0.002	3	-0.27	0.10	2	4	33.00	3.00	860.13	860.22	5	0.09
11531	36	2	0	0	4	0.032	0.004	1.769	227.692	0	-0.024	0.017	13	-0.25	0.43	2	4	27.15	8.14	860.25	862.04	1	1.79
11531	36	2	0	0	4	0.075	0.000	-7.500	0.500	0	-0.080	0.005	2	-0.13	0.07	2	4	28.00	0.00	862.07	862.13	2	0.06
11531	36	2	0	0	4	0.058	0.007	-3.417	326.265	1	0.046	0.005	3	0.00	0.10	2	4	26.50	3.55	862.16	863.22	1	1.06
11531	36	2	0	0	4	-0.070	0.000	25.000	21.000	0	0.100	0.011	0	0.00	0.00	2	4	24.00	0.00	863.25	864.04	5	0.79
11531	36	2	0	0	4	0.051	0.004	-3.524	190.362	1	0.109	0.003	0	0.00	0.00	2	4	30.33	19.43	864.07	866.10	1	2.03
11531	36	2	0	0	4	0.120	0.001	-18.667	21.333	0	0.013	0.001	0	0.00	0.00	2	4	28.00	0.00	866.13	866.22	4	0.09
11531	36	2	0	0	4	0.051	0.001	-3.214	49.412	0	0.119	0.002	0	0.00	0.00	2	4	32.07	14.84	866.25	868.07	1	1.82
11531	36	2	0	0	4	0.044	0.001	-1.800	8.700	0	0.150	0.000	0	0.00	0.00	2	4	30.40	5.30	868.10	868.25	3	0.15
11531	36	2	0	0	4	0.018	0.002	1.250	7.987	0	0.141	0.000	0	0.00	0.00	2	4	39.65	32.87	868.28	870.28	1	2.00
11531	36	2	0	0	4	-0.002	0.001	2.333	3.250	0	0.138	0.000	0	0.00	0.00	2	4	39.56	10.03	871.01	871.28	5	0.27
11531	36	2	0	0	4	-0.008	0.001	1.909	4.091	0	0.146	0.001	0	0.00	0.00	2	4	42.82	9.76	872.01	873.04	1	1.03
11531	36	2	0	0	4	0.005	0.001	0.929	4.958	0	0.101	0.002	0	0.00	0.00	2	4	50.54	23.81	873.07	876.01	7	2.94
11531	36	2	0	0	4	0.011	0.001	0.556	4.641	1	0.071	0.002	0	0.00	0.00	3	4	53.59	7.71	876.04	878.25	1	2.21
11531	36	2	0	0	4	-0.002	0.000	1.833	2.967	0	0.108	0.000	0	0.00	0.00	3	4	52.50	1.50	878.28	879.16	3	0.88

11531	36	2	0	0	4	0.002	0.001	0.462	8.498	1	0.037	0.001	0	0.00	0.00	3	4	55.39	1.77	879.19	882.07	1	2.88
11531	36	2	0	0	1	0.017	0.001	-4.714	3.905	0	0.096	0.000	0	0.00	0.00	1	4	52.43	1.29	458.04	458.25	1	0.21
11531	36	2	0	0	1	0.007	0.000	-4.043	4.407	0	0.065	0.001	0	0.00	0.00	1	4	56.78	8.18	458.28	461.07	7	2.79
11531	36	2	0	0	1	0.011	0.000	-3.405	3.914	1	0.022	0.001	0	0.00	0.00	1	4	58.81	2.77	461.10	465.01	1	3.91
11531	36	2	0	0	1	0.016	0.000	-5.600	2.300	0	0.044	0.001	0	0.00	0.00	1	4	58.40	3.30	465.04	465.19	3	0.15
11531	36	2	0	0	1	0.028	0.001	-5.243	18.022	0	0.014	0.001	0	0.00	0.00	2	4	55.69	12.16	465.22	473.04	1	7.82
11531	36	2	0	0	1	0.012	0.000	-3.778	1.444	0	-0.008	0.000	0	0.00	0.00	2	4	58.11	2.86	473.07	474.04	10	0.97
11531	36	2	0	0	1	0.030	0.001	-5.824	18.908	1	0.015	0.001	0	0.00	0.00	2	4	54.16	7.66	474.07	479.10	1	5.03
11531	36	2	0	0	1	0.006	0.000	-3.000	2.000	0	0.040	0.000	0	0.00	0.00	2	4	56.00	0.00	479.13	479.28	3	0.15
11531	36	2	0	0	1	0.025	0.001	17.502	1543.789	2	-0.017	0.007	11	-0.07	0.37	2	4	22.36	540.08	480.01	503.28	1	23.27
11531	36	2	0	0	1	0.083	0.002	-11.667	6.333	0	0.000	0.000	0	0.00	0.00	2	4	52.00	0.00	504.01	504.10	4	0.09
11531	36	2	0	0	1	0.038	0.002	-8.818	76.571	0	-0.089	0.014	8	-0.06	0.27	2	4	37.16	244.79	504.13	508.25	1	4.12
11531	36	2	0	0	1	0.084	0.000	-14.400	3.300	0	-0.006	0.000	0	0.00	0.00	2	4	48.00	0.00	508.28	509.13	3	0.85
11531	36	2	0	0	1	0.070	0.001	-12.867	36.410	0	-0.053	0.010	0	0.00	0.00	2	4	45.53	8.55	509.16	511.01	1	1.85
11531	36	2	0	0	1	0.028	0.003	-8.045	122.522	0	-0.160	0.015	15	-0.05	0.50	2	4	33.86	153.84	511.04	513.10	1	2.06
11531	36	2	0	0	1	0.001	0.002	-0.909	112.491	0	-0.212	0.016	11	-0.13	0.37	2	4	35.46	65.47	513.13	514.16	4	1.03
11531	36	2	0	0	1	-0.008	0.001	-2.385	109.756	0	-0.258	0.003	13	-0.36	0.43	2	4	26.31	93.23	514.19	515.28	1	1.09
11531	36	2	0	0	1	-0.040	0.001	11.000	7.000	0	-0.247	0.001	3	-0.23	0.10	2	4	29.00	3.00	516.01	516.10	3	0.09
11531	36	2	0	0	1	-0.001	0.001	-6.308	140.397	1	-0.173	0.010	13	-0.29	0.43	2	4	16.85	50.97	516.13	517.22	1	1.09
11531	36	2	0	0	1	0.010	0.000	-8.500	12.500	0	-0.250	0.000	2	-0.25	0.07	2	4	19.50	0.50	517.25	518.01	3	0.76
11531	36	2	0	0	1	0.014	0.000	-13.000	22.571	0	-0.149	0.010	8	-0.28	0.27	2	4	13.38	17.98	518.04	518.28	1	0.24
11531	36	2	0	0	1	0.015	0.000	-6.733	27.924	0	-0.074	0.003	15	-0.23	0.50	2	4	8.33	12.10	519.01	520.16	3	1.15
11531	36	2	0	0	1	0.013	0.000	-3.875	3.554	0	-0.045	0.000	8	-0.08	0.27	2	4	7.63	1.13	520.19	521.13	1	0.94
11531	36	2	0	0	1	0.009	0.000	-4.143	2.286	0	-0.049	0.001	14	-0.09	0.47	2	4	5.00	6.62	521.16	522.28	4	1.12
11531	36	2	0	0	1	0.011	0.000	-4.429	0.952	0	-0.054	0.001	7	-0.05	0.23	2	4	4.71	2.24	523.01	523.22	1	0.21
11531	36	2	0	0	1	0.006	0.000	-4.450	2.050	0	-0.022	0.001	20	-0.12	0.67	2	4	1.35	3.61	523.25	525.25	3	2.00
11531	36	2	0	0	1	0.005	0.000	-4.727	2.018	0	-0.009	0.000	11	-0.04	0.37	2	4	0.55	1.67	525.28	527.01	1	1.73
11531	36	2	0	0	1	0.006	0.004	10.668	2256.786	3	0.023	0.006	498	-0.28	16.60	2	4	24.00	258.34	527.04	585.28	0	58.24
16881	73	3	0	0	4	0.008	0.002	13.068	2791.846	9	0.025	0.005	491	-0.06	16.37	1	3	17.86	234.40	979.13	1036.16	0	57.03
16881	73	3	0	0	4	0.004	0.000	26.600	744.800	0	0.080	0.000	5	0.00	0.17	1	3	0.00	0.00	1036.19	1037.04	1	0.85
16881	73	3	0	0	4	0.008	0.000	65.400	4151.800	0	0.088	0.000	5	0.00	0.17	1	3	1.20	3.20	1037.07	1037.22	2	0.15
16881	73	3	0	0	4	-0.010	0.000	132.800	7138.700	0	0.090	0.000	5	0.00	0.17	1	3	2.40	4.80	1037.25	1038.10	1	0.85
16881	73	3	0	0	4	0.002	0.001	202.417	1242.447	0	0.008	0.017	12	0.00	0.40	1	3	1.83	3.97	1038.13	1039.19	2	1.06
16881	73	3	0	0	4	0.005	0.000	216.545	9.273	0	-0.027	0.016	11	-0.34	0.37	1	3	1.00	3.00	1039.22	1040.25	1	1.03
16881	73	3	0	0	4	0.010	0.000	217.143	4.810	0	0.036	0.001	7	-0.01	0.23	1	3	0.00	0.00	1040.28	1041.19	1	0.91
16881	73	3	0	0	4	-0.008	0.003	74.882	11451.062	0	0.087	0.005	68	0.00	2.27	1	3	20.25	218.11	1041.22	1049.10	0	7.88

16681	73	3	0	0	4	-0.096	0.009	241.200	2276.700	0	0.276	0.006	0	0.00	0.00	1	3	4.20	14.20	1049.13	1049.28	1	0.15
16681	73	3	0	0	4	-0.114	0.004	116.273	9299.818	0	0.189	0.005	0	0.00	0.00	1	3	12.27	27.22	1050.01	1051.04	2	1.03
16681	73	3	0	0	4	-0.027	0.005	20.875	2735.853	0	0.127	0.001	0	0.00	0.00	1	3	22.33	41.01	1051.07	1053.19	1	2.12
16681	73	3	0	0	4	0.002	0.000	-3.000	5.200	0	0.153	0.000	0	0.00	0.00	1	3	21.00	4.00	1053.22	1054.10	3	0.88
16681	73	3	0	0	4	0.010	0.000	-3.500	1.667	0	0.147	0.000	0	0.00	0.00	1	3	21.50	3.67	1054.13	1054.25	1	0.12
16681	73	3	0	0	4	0.011	0.000	-5.273	2.218	0	0.118	0.001	0	0.00	0.00	1	3	25.82	7.76	1054.28	1056.01	0	1.73
16681	73	3	0	0	4	0.009	0.000	-5.545	0.673	0	0.101	0.001	0	0.00	0.00	1	3	27.46	2.27	1056.04	1057.07	10	1.03
16681	73	3	0	0	4	0.006	0.000	-5.333	0.500	0	0.089	0.000	0	0.00	0.00	1	3	28.56	1.78	1057.10	1058.07	1	0.97
16681	73	3	0	0	4	0.008	0.000	-5.800	1.067	0	0.079	0.000	0	0.00	0.00	1	3	29.90	4.10	1058.10	1059.10	10	1.00
16681	73	3	0	0	4	0.010	0.000	-4.750	0.250	0	0.078	0.000	0	0.00	0.00	1	3	29.50	3.67	1059.13	1059.25	1	0.12
16681	73	3	0	0	4	0.009	0.000	-5.200	1.733	0	0.068	0.000	0	0.00	0.00	1	3	31.60	1.82	1059.28	1060.28	10	1.00
11621	67	3	1	0	4	0.005	0.000	-2.000	2.000	0	0.043	0.001	0	0.00	0.00	1	2	28.00	0.00	1335.10	1335.22	10	0.12
11621	67	3	1	0	4	-0.011	0.000	-2.000	2.429	0	0.043	0.000	0	0.00	0.00	1	2	28.00	0.00	1335.25	1337.10	1	1.85
11621	67	3	1	0	4	-0.020	0.000	-1.111	4.222	1	0.044	0.000	0	0.00	0.00	1	2	28.00	0.00	1337.13	1339.07	2	1.94
11621	67	3	1	0	4	-0.022	0.000	-2.000	7.000	0	0.043	0.000	0	0.00	0.00	1	2	28.00	0.00	1339.10	1340.25	1	1.15
11621	67	3	1	0	4	-0.025	0.000	-1.700	8.233	0	0.038	0.000	0	0.00	0.00	1	2	28.00	0.00	1340.28	1341.28	3	1.00
11621	67	3	1	0	4	-0.027	0.000	-0.500	5.667	0	0.052	0.000	0	0.00	0.00	1	2	28.00	0.00	1342.01	1342.13	1	0.12
11621	67	3	1	0	4	-0.032	0.000	-1.700	7.567	0	0.040	0.001	0	0.00	0.00	1	2	28.00	0.00	1342.16	1343.16	1	1.00
11621	67	3	1	0	4	-0.038	0.000	-2.625	5.125	0	0.030	0.000	0	0.00	0.00	1	2	28.00	0.00	1343.19	1344.13	10	0.94
11621	67	3	1	0	4	-0.022	0.000	-2.421	7.257	0	0.034	0.001	0	0.00	0.00	1	2	28.00	0.00	1344.16	1346.13	1	1.97
11621	67	3	1	0	4	-0.019	0.000	-1.857	8.440	1	0.035	0.001	4	0.00	0.13	1	2	28.00	0.00	1346.16	1347.28	3	1.12
11621	67	3	1	0	4	-0.027	0.000	2.250	0.917	0	0.050	0.000	0	0.00	0.00	1	2	28.00	0.00	1348.01	1348.13	1	0.12
11621	67	3	1	0	4	-0.027	0.000	1.000	4.667	0	0.050	0.001	0	0.00	0.00	1	2	28.00	0.00	1348.16	1348.28	1	0.12
11621	67	3	1	0	4	-0.011	0.000	-3.000	13.143	0	0.035	0.000	0	0.00	0.00	1	2	28.00	0.00	1349.01	1349.25	10	0.24
11621	67	3	1	0	4	-0.003	0.000	-5.667	1.467	0	0.033	0.000	0	0.00	0.00	1	2	28.00	0.00	1349.28	1350.16	1	0.88
11621	67	3	1	0	4	-0.003	0.000	-5.111	1.861	0	0.032	0.000	0	0.00	0.00	1	2	28.00	0.00	1350.19	1351.16	10	0.97
11621	67	3	1	0	4	-0.002	0.000	-4.500	3.000	0	0.023	0.000	0	0.00	0.00	1	2	28.00	0.00	1351.19	1352.01	1	0.82
11621	67	3	1	0	4	-0.005	0.000	-4.250	5.583	0	0.023	0.000	0	0.00	0.00	1	2	28.00	0.00	1352.04	1352.16	10	0.12
11621	67	3	1	0	4	0.003	0.000	-3.800	2.484	0	0.040	0.000	0	0.00	0.00	1	2	30.65	3.61	1352.19	1354.19	1	2.00
11621	67	3	1	0	4	0.000	0.000	-3.125	1.554	0	0.041	0.001	0	0.00	0.00	1	2	31.13	2.70	1354.22	1355.16	2	0.94
11621	67	3	1	0	4	0.009	0.000	-3.071	2.687	0	0.045	0.000	0	0.00	0.00	1	2	32.00	0.00	1355.19	1357.01	3	1.82
11621	67	3	1	0	4	-0.003	0.000	-2.317	6.605	1	0.015	0.004	0	0.00	0.00	1	2	31.33	49.57	1357.04	1369.04	1	12.00
11621	67	3	1	0	4	-0.005	0.000	-2.500	1.000	0	0.027	0.000	0	0.00	0.00	1	2	36.00	0.00	1369.07	1369.19	10	0.12
11621	67	3	1	0	4	-0.001	0.000	-2.000	0.857	0	0.025	0.000	0	0.00	0.00	1	2	36.00	0.00	1369.22	1370.16	1	0.94
11621	67	3	1	0	4	-0.004	0.000	-2.200	0.700	0	0.020	0.000	0	0.00	0.00	1	2	36.00	0.00	1370.19	1371.04	10	0.85
11621	67	3	1	0	4	0.000	0.000	-2.500	1.667	0	0.027	0.000	0	0.00	0.00	1	2	36.00	0.00	1371.07	1371.19	1	0.12

11621	67	3	1	0	4	0.007	0.000	-3.000	1.500	0	0.034	0.000	0	0.00	0.00	1	2	36.00	0.00	1371.22	1372.19	10	0.97
11621	67	3	1	0	4	0.004	0.000	-3.000	4.667	0	0.044	0.000	0	0.00	0.00	1	2	36.00	0.00	1372.22	1373.22	1	1.00
11621	67	3	1	0	4	0.001	0.000	-1.400	2.711	0	0.042	0.000	0	0.00	0.00	1	2	36.70	1.79	1373.25	1374.25	3	1.00
11621	67	3	1	0	4	0.002	0.000	-3.867	12.552	1	0.046	0.000	0	0.00	0.00	1	2	38.27	3.35	1374.28	1376.13	1	1.85
11621	67	3	1	0	4	0.005	0.000	-4.333	24.267	0	0.045	0.000	0	0.00	0.00	1	2	38.33	2.27	1376.16	1377.04	10	0.88
11621	67	3	1	0	4	0.010	0.000	-4.750	14.917	0	0.040	0.000	0	0.00	0.00	1	2	37.75	2.92	1377.07	1377.19	3	0.12
11621	67	3	1	0	4	-0.008	0.000	-2.019	9.490	0	-0.015	0.009	0	0.00	0.00	1	2	31.48	63.76	1377.22	1363.04	1	5.82
11621	67	3	1	0	4	-0.016	0.000	0.333	2.000	0	-0.028	0.001	0	0.00	0.00	1	2	38.11	4.11	1383.07	1384.04	10	0.97
11621	67	3	1	0	4	-0.018	0.000	0.250	1.357	0	-0.035	0.002	0	0.00	0.00	1	2	37.25	3.36	1384.07	1385.01	1	0.94
11621	67	3	1	0	4	-0.016	0.000	0.250	1.145	2	-0.036	0.001	19	-0.11	0.63	1	2	32.55	11.63	1385.04	1387.04	10	2.00
11621	67	3	1	0	4	-0.005	0.000	-1.673	6.854	2	-0.015	0.008	39	-0.07	1.30	1	2	23.44	26.58	1387.07	1392.22	1	5.15
11621	67	3	1	0	4	0.019	0.000	-4.250	2.214	0	-0.135	0.027	8	-0.41	0.27	1	2	21.88	9.27	1392.25	1393.19	3	0.94
11621	67	3	1	0	4	0.038	0.000	-5.500	1.000	0	-0.090	0.014	4	-0.25	0.13	1	2	20.25	0.25	1393.22	1394.04	2	0.82
11621	67	3	1	0	4	0.040	0.000	-5.000	0.000	0	-0.015	0.000	1	-0.03	0.03	1	2	20.00	0.00	1394.07	1394.10	1	0.03
11621	67	3	1	0	4	0.023	0.000	-4.250	2.917	0	0.007	0.000	0	0.00	0.00	1	2	20.00	0.00	1394.13	1394.25	3	0.12
11621	67	3	1	0	4	-0.006	0.000	-2.158	5.696	0	0.040	0.001	0	0.00	0.00	1	2	20.00	0.00	1394.28	1396.25	1	1.97
11621	67	3	1	0	4	-0.025	0.000	-0.333	0.667	0	0.088	0.000	0	0.00	0.00	1	2	20.00	0.00	1396.28	1397.16	3	0.88
11621	67	3	1	0	4	-0.015	0.000	0.000	0.857	0	0.041	0.001	0	0.00	0.00	1	2	20.00	0.00	1397.19	1398.13	1	0.94
11621	67	3	1	0	4	-0.020	0.001	-0.500	0.500	0	0.055	0.000	0	0.00	0.00	1	2	20.00	0.00	1398.16	1398.22	4	0.06
11621	67	3	1	0	4	-0.005	0.000	-0.250	0.250	0	0.030	0.001	0	0.00	0.00	1	2	20.00	0.00	1398.25	1399.07	1	0.82
11621	67	3	1	0	4	0.000	0.000	-0.250	0.250	0	0.015	0.000	0	0.00	0.00	1	2	20.00	0.00	1399.10	1399.22	2	0.12
11621	67	3	1	0	4	0.000	0.000	-1.400	2.800	0	0.008	0.000	5	0.00	0.17	1	2	20.00	0.00	1399.25	1400.10	1	0.85
11621	67	3	1	0	4	0.000	0.000	-4.667	8.000	0	0.040	0.001	5	0.00	0.17	1	2	20.00	0.00	1400.13	1401.10	10	0.97
11621	67	3	1	0	4	0.002	0.000	-6.250	2.917	0	0.045	0.001	0	0.00	0.00	1	2	20.00	0.00	1401.13	1401.25	1	0.12
11621	67	3	1	0	4	0.000	0.000	-7.250	0.917	0	0.060	0.000	0	0.00	0.00	1	2	20.00	0.00	1401.28	1402.10	4	0.82
11621	67	3	1	0	4	-0.005	0.000	-2.588	9.280	1	0.024	0.004	0	0.00	0.00	1	2	18.97	7.85	1402.13	1405.25	1	3.12
11621	67	3	1	0	4	-0.008	0.000	-2.400	7.822	0	-0.054	0.002	10	-0.09	0.33	1	2	20.00	9.11	1405.28	1406.28	2	1.00
11661	67	3	0	0	4	0.013	0.000	-2.500	1.667	0	0.040	0.000	0	0.00	0.00	1	3	36.75	0.92	407.04	407.16	1	0.12
11661	67	3	0	0	4	0.024	0.000	-4.143	3.810	0	0.041	0.000	0	0.00	0.00	1	3	38.86	2.48	407.19	408.10	10	0.91
11661	67	3	0	0	4	0.027	0.000	-4.500	1.667	0	0.045	0.000	0	0.00	0.00	1	3	39.50	1.00	408.13	408.25	1	0.12
11661	67	3	0	0	4	0.022	0.000	-4.538	4.769	0	0.036	0.000	0	0.00	0.00	1	3	40.00	0.00	408.28	410.07	10	1.79
11661	67	3	0	0	4	0.015	0.000	-4.750	7.583	0	0.043	0.000	0	0.00	0.00	1	3	40.00	0.00	410.10	410.22	1	0.12
11661	67	3	0	0	4	0.014	0.000	-3.273	3.446	0	0.027	0.000	0	0.00	0.00	1	3	40.00	0.00	410.25	413.01	10	2.76
11661	67	3	0	0	4	0.005	0.000	-4.000	4.667	0	0.032	0.000	0	0.00	0.00	1	3	40.00	0.00	413.04	413.16	1	0.12
11661	67	3	0	0	4	0.014	0.000	-3.053	3.053	0	0.028	0.000	0	0.00	0.00	1	3	40.00	0.00	413.19	415.16	10	1.97
11661	67	3	0	0	4	0.020	0.000	-3.375	4.839	0	0.029	0.000	0	0.00	0.00	1	3	40.00	0.00	415.19	416.13	1	0.94

11661	67	3	0	0	4	0.016	0.000	-2.000	2.333	0	0.020	0.001	0	0.00	0.00	1	3	40.00	0.00	416.16	417.07	10	0.91
11661	67	3	0	0	4	0.010	0.000	-1.250	0.250	0	0.013	0.001	0	0.00	0.00	1	3	40.00	0.00	417.10	417.22	1	0.12
11661	67	3	0	0	4	0.003	0.000	-1.667	1.667	0	0.008	0.000	0	0.00	0.00	1	3	40.00	0.00	417.25	418.13	10	0.88
11661	67	3	0	0	4	0.005	0.000	-1.250	0.250	0	0.002	0.000	0	0.00	0.00	1	3	40.00	0.00	418.16	418.28	1	0.12
11661	67	3	0	0	4	0.009	0.000	-2.923	2.244	0	0.012	0.000	0	0.00	0.00	1	3	40.00	0.00	419.01	420.10	10	1.09
11661	67	3	0	0	4	0.006	0.000	-2.857	1.476	0	0.014	0.000	0	0.00	0.00	1	3	40.00	0.00	420.13	421.04	1	0.91
11661	67	3	0	0	4	0.010	0.000	-4.833	4.735	0	0.005	0.000	0	0.00	0.00	1	3	40.00	0.00	421.07	423.01	10	1.94
11661	67	3	0	0	4	0.017	0.000	-4.167	6.167	0	0.007	0.000	0	0.00	0.00	1	3	40.00	0.00	423.04	423.22	1	0.18
11661	67	3	0	0	4	0.014	0.000	-4.737	3.871	0	0.012	0.000	0	0.00	0.00	1	3	40.63	3.69	423.25	425.22	10	1.97
11661	67	3	0	0	4	0.013	0.000	-4.375	3.984	0	0.014	0.000	0	0.00	0.00	1	3	40.42	3.21	425.25	428.07	1	2.82
11661	67	3	0	0	4	0.007	0.000	-3.750	3.583	0	0.013	0.000	0	0.00	0.00	1	3	41.75	12.25	428.10	428.22	10	0.12
11661	67	3	0	0	4	0.017	0.000	-2.714	0.905	0	0.030	0.000	0	0.00	0.00	1	3	41.71	13.91	428.25	429.16	1	0.91
11661	67	3	0	0	4	0.018	0.000	-2.625	0.839	0	0.034	0.000	0	0.00	0.00	1	3	41.50	12.29	429.19	430.13	3	0.94
11661	67	3	0	0	4	0.016	0.000	-3.208	2.259	1	-0.005	0.001	0	0.00	0.00	1	3	36.79	11.74	430.16	432.28	10	2.12
11661	67	3	0	0	4	0.013	0.000	-5.000	4.667	0	0.013	0.000	0	0.00	0.00	1	3	40.00	0.00	433.01	433.13	1	0.12
11661	67	3	0	0	4	0.014	0.000	-3.278	3.154	0	-0.016	0.001	7	-0.06	0.23	1	3	35.06	10.64	433.16	435.10	10	1.94
11661	67	3	0	0	4	0.033	0.000	-4.000	2.330	0	-0.013	0.001	18	-0.07	0.60	1	3	33.06	3.11	435.13	437.07	1	1.94
11661	67	3	0	0	4	0.011	0.000	-2.625	1.696	0	-0.020	0.001	2	-0.06	0.07	1	3	32.33	0.33	437.10	437.19	2	0.09
11661	67	3	0	0	4	0.007	0.000	-1.333	2.333	0	0.005	0.000	0	0.00	0.00	1	3	32.00	0.00	437.22	438.16	1	0.94
11661	67	3	0	0	4	0.015	0.000	-3.692	4.564	0	0.003	0.000	0	0.00	0.00	1	3	32.00	0.00	438.19	438.28	10	0.09
11661	67	3	0	0	4	0.003	0.000	-2.667	0.333	0	0.003	0.000	0	0.00	0.00	1	3	32.00	0.00	439.01	440.10	1	1.09
11661	67	3	0	0	4	0.002	0.000	-3.500	1.667	0	0.002	0.000	0	0.00	0.00	1	3	32.00	0.00	440.13	440.22	2	0.09
11661	67	3	0	0	4	0.022	0.000	-4.333	2.250	0	0.020	0.000	0	0.00	0.00	1	3	31.89	0.11	441.10	442.07	10	0.97
11661	67	3	0	0	4	0.028	0.000	-6.200	1.200	0	0.030	0.000	0	0.00	0.00	1	3	31.80	0.20	442.10	442.25	1	0.15
11661	67	3	0	0	4	0.033	0.000	-4.667	0.333	0	0.033	0.000	0	0.00	0.00	1	3	32.00	0.00	442.28	443.07	10	0.79
11661	67	3	0	0	4	0.018	0.000	-2.923	2.744	0	0.008	0.000	0	0.00	0.00	1	3	31.92	0.08	443.10	444.19	1	1.09
11661	67	3	0	0	4	0.018	0.000	-3.000	4.500	0	-0.001	0.000	5	-0.01	0.17	1	3	32.00	0.00	444.22	445.19	10	0.97
11661	67	3	0	0	4	0.006	0.000	4.877	461.060	0	-0.010	0.007	2	-0.02	0.07	1	3	21.17	137.50	445.22	453.25	1	8.03
11661	67	3	0	0	4	0.011	0.000	-5.125	3.554	0	0.010	0.000	0	0.00	0.00	1	3	30.50	3.43	453.28	454.22	10	0.94
11661	67	3	0	0	4	0.010	0.000	-4.571	4.286	0	0.006	0.000	0	0.00	0.00	1	3	30.14	3.14	454.25	455.16	1	0.91
11661	67	3	0	0	4	0.008	0.000	-3.800	2.700	0	0.004	0.000	0	0.00	0.00	1	3	29.40	2.30	455.19	456.04	3	0.85
11661	67	3	0	0	4	0.012	0.000	-3.727	2.618	0	-0.010	0.001	0	0.00	0.00	1	3	28.46	1.07	456.07	457.10	10	1.03
11661	67	3	0	0	4	0.014	0.000	-3.200	2.700	0	-0.010	0.001	0	0.00	0.00	1	3	28.00	0.00	457.13	457.28	1	0.15
11661	67	3	0	0	4	0.011	0.000	-3.312	4.363	0	-0.010	0.000	11	-0.05	0.37	1	3	27.56	1.46	458.01	459.19	10	1.18
11661	67	3	0	0	4	0.004	0.000	1.424	181.689	0	-0.062	0.011	16	-0.04	0.53	1	3	17.52	101.51	459.22	463.01	1	3.79

11661	67	3	0	0	4	0.000	0.000	-1.333	0.333	0	-0.007	0.000	2	-0.03	0.07	1	3	26.00	4.00	463.04	463.13	5	0.09
11661	67	3	0	0	4	0.005	0.001	-7.000	238.571	0	-0.068	0.008	2	0.00	0.07	1	3	23.63	2.84	463.16	464.10	1	0.94
11661	67	3	0	0	4	-0.027	0.000	5.667	2.333	0	-0.007	0.000	3	0.00	0.10	1	3	24.00	0.00	464.13	464.22	2	0.09
11661	67	3	0	0	4	0.020	0.003	-10.750	344.917	0	-0.085	0.008	4	-0.03	0.13	1	3	23.50	1.00	464.25	465.07	1	0.82
11661	67	3	0	0	4	0.033	0.003	-20.000	103.000	0	-0.133	0.011	3	-0.14	0.10	1	3	23.00	3.00	465.10	465.19	2	0.09
11661	67	3	0	0	4	0.000	0.001	20.423	804.094	1	-0.048	0.021	26	-0.28	0.87	1	3	8.04	42.04	465.22	468.10	1	2.88
11661	67	3	0	0	4	-0.005	0.000	4.375	30.839	0	-0.071	0.009	8	-0.21	0.27	1	3	5.25	4.21	468.13	469.07	2	0.94
11661	67	3	0	0	4	0.000	0.000	1.667	0.333	0	-0.070	0.003	3	-0.13	0.10	1	3	4.00	0.00	469.10	469.19	1	0.09
11661	67	3	0	0	4	-0.004	0.000	25.545	1179.498	0	0.045	0.003	16	-0.05	0.53	1	3	4.00	0.00	469.22	471.28	2	2.06
11661	67	3	0	0	4	0.000	0.000	37.333	170.333	0	0.043	0.000	0	0.00	0.00	1	3	4.00	0.00	472.01	472.10	7	0.09
11661	67	3	0	0	4	-0.003	0.000	45.667	120.333	0	0.080	0.003	0	0.00	0.00	1	3	4.00	0.00	472.13	472.22	1	0.09
11661	67	3	0	0	4	-0.011	0.000	44.333	622.970	0	0.077	0.003	0	0.00	0.00	1	3	4.00	0.00	472.25	474.01	2	1.76
11661	67	3	0	0	4	-0.010	0.000	47.500	522.571	0	0.062	0.003	0	0.00	0.00	1	3	4.00	0.00	474.04	474.28	1	0.24
11661	67	3	0	0	4	-0.017	0.000	59.667	1.333	0	0.037	0.000	0	0.00	0.00	1	3	4.00	0.00	475.01	475.10	3	0.09
11661	67	3	0	0	4	0.023	0.000	-19.632	732.780	1	0.006	0.001	0	0.00	0.00	1	3	3.29	2.32	475.13	479.07	1	3.94
11661	67	3	0	0	4	0.032	0.000	-47.200	29.200	0	0.044	0.001	0	0.00	0.00	1	3	4.00	0.00	479.10	479.25	2	0.15
11661	67	3	0	0	4	0.028	0.000	-16.067	160.655	0	0.032	0.006	13	-0.07	0.43	1	3	4.11	8.19	479.28	484.13	1	4.85
11661	67	3	0	0	4	0.025	0.000	-20.000	8.545	0	-0.018	0.001	12	-0.06	0.40	1	3	2.83	3.24	484.16	485.22	10	1.06
11661	67	3	0	0	4	0.014	0.000	-3.200	0.700	0	0.046	0.000	0	0.00	0.00	2	3	32.00	0.00	752.04	752.19	2	0.15
11661	67	3	0	0	4	0.007	0.000	-3.250	2.917	0	0.038	0.000	0	0.00	0.00	2	3	32.00	0.00	752.22	753.04	1	0.82
11661	67	3	0	0	4	0.013	0.000	-4.750	8.250	0	0.032	0.000	0	0.00	0.00	2	3	32.00	0.00	753.07	753.19	13	0.12
11661	67	3	0	0	4	0.009	0.000	-3.529	5.515	1	0.036	0.000	0	0.00	0.00	2	3	32.06	0.06	753.22	755.13	1	1.91
11661	67	3	0	0	4	0.012	0.000	-3.474	5.374	0	0.023	0.000	0	0.00	0.00	2	3	32.05	0.05	755.16	757.13	2	1.97
11661	67	3	0	0	4	0.011	0.000	-3.000	4.000	0	0.015	0.000	0	0.00	0.00	2	3	32.08	0.08	757.16	758.22	1	1.06
11661	67	3	0	0	4	0.014	0.000	-2.500	4.286	0	0.006	0.000	0	0.00	0.00	2	3	32.13	0.13	758.25	759.19	10	0.94
11661	67	3	0	0	4	0.021	0.000	-4.000	8.750	0	0.007	0.000	0	0.00	0.00	2	3	32.00	0.00	759.22	760.19	1	0.97
11661	67	3	0	0	4	0.021	0.000	-4.875	6.696	0	0.006	0.000	0	0.00	0.00	2	3	32.00	0.00	760.22	761.16	10	0.94
11661	67	3	0	0	4	0.022	0.000	-4.692	7.564	0	-0.084	0.029	0	0.00	0.00	2	3	30.15	7.14	761.19	762.28	1	1.09
11661	67	3	0	0	4	0.016	0.000	-3.600	0.800	0	-0.006	0.000	0	0.00	0.00	2	3	31.80	0.20	763.01	763.16	3	0.15
11661	67	3	0	0	4	0.014	0.000	-2.794	4.532	0	-0.060	0.026	17	-0.43	0.57	2	3	9.82	147.30	763.19	767.01	1	3.82
11661	67	3	0	0	4	0.015	0.000	-1.750	8.250	0	-0.252	0.004	4	-0.34	0.13	2	3	14.50	19.67	767.04	767.16	1	0.12
11661	67	3	0	0	4	0.007	0.000	-0.333	1.333	0	-0.217	0.000	3	-0.24	0.10	2	3	11.67	6.33	767.19	767.28	3	0.09
11661	67	3	0	0	4	0.014	0.000	-2.366	4.188	1	0.016	0.007	41	-0.24	1.37	2	3	2.93	7.37	768.01	772.04	1	4.03
11661	67	3	0	0	4	0.009	0.000	-3.550	6.364	5	0.034	0.003	26	-0.02	0.87	3	3	20.84	56.27	772.07	805.04	0	32.97
11661	67	3	0	0	4	0.020	0.000	-2.667	0.333	0	0.007	0.000	0	0.00	0.00	2	4	52.00	0.00	1247.13	1247.22	10	0.09
11661	67	3	0	0	4	0.014	0.000	-3.000	1.143	0	0.020	0.000	0	0.00	0.00	2	4	52.00	0.00	1247.25	1248.19	1	0.94

11661	67	3	0	0	4	0.018	0.000	-3.000	2.000	0	0.025	0.000	0	0.00	0.00	2	4	52.00	0.00	1248.22	1249.04	3	0.82
11661	67	3	0	0	4	0.013	0.000	-3.250	0.917	0	0.023	0.000	0	0.00	0.00	2	4	52.00	0.00	1249.07	1249.19	1	0.12
11661	67	3	0	0	4	0.010	0.000	-3.200	0.700	0	0.016	0.000	0	0.00	0.00	2	4	52.00	0.00	1249.22	1250.07	10	0.85
11661	67	3	0	0	4	0.017	0.000	-4.000	0.000	0	0.013	0.000	0	0.00	0.00	2	4	52.00	0.00	1250.10	1250.19	1	0.09
11661	67	3	0	0	4	0.010	0.000	-4.000	0.500	0	0.010	0.000	0	0.00	0.00	2	4	52.00	0.00	1250.22	1251.07	10	0.85
11661	67	3	0	0	4	0.014	0.000	-5.062	2.596	0	0.013	0.000	0	0.00	0.00	2	4	51.88	0.12	1251.10	1252.28	10	1.18
11661	67	3	0	0	4	0.027	0.000	-4.000	1.000	0	0.017	0.000	0	0.00	0.00	2	4	52.00	0.00	1253.01	1253.10	1	0.09
11661	67	3	0	0	4	0.011	0.000	-4.500	5.808	0	0.020	0.000	0	0.00	0.00	2	4	51.93	0.07	1253.13	1254.25	10	1.12
11661	67	3	0	0	4	0.011	0.000	-4.875	5.268	0	0.021	0.000	0	0.00	0.00	2	4	51.75	0.21	1254.28	1255.22	1	0.94
11661	67	3	0	0	4	0.007	0.000	-5.000	8.500	0	0.030	0.000	0	0.00	0.00	2	4	51.89	0.11	1255.25	1256.22	10	0.97
11661	67	3	0	0	4	0.011	0.000	-4.100	5.656	0	0.043	0.000	0	0.00	0.00	2	4	52.00	0.00	1256.25	1257.25	1	1.00
11661	67	3	0	0	4	0.002	0.000	-3.667	1.067	0	0.042	0.000	0	0.00	0.00	2	4	52.00	0.00	1257.28	1258.16	10	0.88
11661	67	3	0	0	4	0.019	0.000	-2.625	3.125	0	0.024	0.000	0	0.00	0.00	2	4	52.00	0.00	1258.19	1259.13	1	0.94
11661	67	3	0	0	4	0.036	0.001	-4.333	12.500	0	0.022	0.001	0	0.00	0.00	2	4	52.00	0.00	1259.16	1260.13	10	0.97
11661	67	3	0	0	4	0.030	0.000	-3.250	20.250	0	0.018	0.001	0	0.00	0.00	2	4	52.00	0.00	1260.16	1260.28	1	0.12
11661	67	3	0	0	4	0.038	0.000	-4.750	18.917	0	0.025	0.001	0	0.00	0.00	2	4	52.00	0.00	1261.01	1261.13	3	0.12
11661	67	3	0	0	4	0.055	0.002	-5.000	32.000	0	0.035	0.000	0	0.00	0.00	2	4	52.00	0.00	1261.16	1261.22	1	0.06
11661	67	3	0	0	4	0.057	0.000	-6.833	2.967	0	0.037	0.000	0	0.00	0.00	2	4	52.00	0.00	1261.25	1262.13	6	0.88
11661	67	3	0	0	4	0.063	0.000	-7.000	1.000	0	0.027	0.001	0	0.00	0.00	2	4	52.00	0.00	1262.16	1262.25	1	0.09
11661	67	3	0	0	4	0.016	0.001	0.714	18.681	1	0.046	0.000	0	0.00	0.00	2	4	52.00	0.00	1262.28	1264.10	6	1.82
11661	67	3	0	0	4	-0.009	0.000	2.778	3.194	0	0.053	0.000	0	0.00	0.00	2	4	52.00	0.00	1264.13	1265.10	1	0.97
11661	67	3	0	0	4	0.011	0.001	0.500	14.115	0	0.036	0.000	0	0.00	0.00	2	4	52.00	0.00	1265.13	1266.25	10	1.12
11661	67	3	0	0	4	-0.002	0.000	1.250	11.583	0	0.045	0.000	0	0.00	0.00	2	4	52.00	0.00	1266.28	1267.10	1	0.82
11661	67	3	0	0	4	0.007	0.000	-0.333	0.333	0	0.047	0.000	0	0.00	0.00	2	4	52.00	0.00	1267.13	1267.22	10	0.09
11661	67	3	0	0	4	0.032	0.000	-2.333	8.667	0	0.027	0.000	0	0.00	0.00	2	4	52.00	0.00	1267.25	1268.13	9	0.88
11661	67	3	0	0	4	0.034	0.000	-2.222	7.194	0	0.011	0.000	0	0.00	0.00	2	4	51.00	3.00	1268.16	1269.13	1	0.97
11661	67	3	0	0	4	0.014	0.001	0.143	7.929	0	0.000	0.000	0	0.00	0.00	2	4	47.95	7.05	1269.16	1271.19	9	2.03
11661	67	3	0	0	4	0.013	0.000	0.333	0.333	0	0.000	0.000	0	0.00	0.00	2	4	48.00	0.00	1271.22	1272.01	1	0.79
11661	67	3	0	0	4	0.005	0.000	0.500	0.500	0	0.000	0.000	0	0.00	0.00	2	4	48.00	0.00	1272.04	1272.07	9	0.03
11661	67	3	0	0	4	0.004	0.000	1.000	4.600	0	-0.005	0.000	0	0.00	0.00	2	4	47.36	2.06	1272.10	1273.13	10	1.03
11661	67	3	0	0	4	0.013	0.001	-0.333	6.000	0	-0.007	0.000	0	0.00	0.00	2	4	46.78	3.44	1273.16	1274.13	1	0.97
11661	67	3	0	0	4	0.007	0.000	-0.667	4.333	0	-0.007	0.000	0	0.00	0.00	2	4	48.00	0.00	1274.16	1274.25	9	0.09
11661	67	3	0	0	4	0.025	0.000	-1.250	1.583	0	0.000	0.000	0	0.00	0.00	2	4	46.50	3.67	1274.28	1275.10	1	0.82
11661	67	3	0	0	4	0.027	0.000	0.083	5.174	0	-0.004	0.000	0	0.00	0.00	2	4	44.42	1.72	1275.13	1276.19	10	1.06
11661	67	3	0	0	4	0.025	0.001	1.250	18.917	0	0.018	0.001	0	0.00	0.00	2	4	44.00	0.00	1276.22	1277.04	1	0.82
11661	67	3	0	0	4	0.032	0.001	-2.529	18.890	1	0.001	0.000	0	0.00	0.00	2	4	43.77	0.19	1277.07	1278.28	10	1.21

11661	67	3	0	0	4	0.051	0.000	-6.400	14.779	0	0.003	0.000	0	0.00	0.00	2	4	43.95	0.05	1279.01	1281.01	1	2.00
11661	67	3	0	0	4	0.059	0.000	-7.222	3.194	0	0.006	0.000	0	0.00	0.00	2	4	43.89	0.11	1281.04	1282.01	3	0.97
11661	67	3	0	0	4	0.060	0.000	-7.667	6.267	0	-0.002	0.000	0	0.00	0.00	2	4	43.83	0.17	1282.04	1282.22	1	0.18
11661	67	3	0	0	4	0.052	0.000	-8.250	0.500	0	0.000	0.000	0	0.00	0.00	2	4	43.88	0.13	1282.25	1283.19	11	0.94
11661	67	3	0	0	4	0.047	0.001	-8.538	8.769	0	-0.007	0.000	0	0.00	0.00	2	4	43.54	1.44	1283.22	1285.01	1	1.79
11661	67	3	0	0	4	0.045	0.001	-7.467	7.981	0	-0.023	0.001	3	-0.01	0.10	2	4	41.93	4.92	1285.04	1286.19	10	1.15
11661	67	3	0	0	4	0.038	0.001	-7.000	22.000	0	-0.025	0.000	4	-0.03	0.13	2	4	43.75	0.25	1286.22	1287.04	1	0.82
11661	67	3	0	0	4	0.027	0.000	-5.000	4.667	0	-0.015	0.000	4	-0.05	0.13	2	4	42.50	3.67	1287.07	1287.19	10	0.12
11661	67	3	0	0	4	0.021	0.000	-4.125	8.783	0	-0.076	0.002	5	-0.05	0.17	2	4	36.69	22.36	1287.22	1289.10	1	1.88
11661	67	3	0	0	4	0.035	0.000	-6.250	4.250	0	-0.060	0.002	4	-0.03	0.13	2	4	39.50	1.00	1289.13	1289.25	10	0.12
11661	67	3	0	0	4	0.014	0.000	-3.250	9.267	0	-0.071	0.003	16	-0.12	0.53	2	4	32.13	21.05	1289.28	1291.16	9	1.88
11661	67	3	0	0	4	0.004	0.000	-3.250	11.841	0	-0.061	0.004	12	-0.13	0.40	2	4	29.92	8.08	1291.19	1292.25	1	1.06
11661	67	3	0	0	4	0.011	0.000	-3.750	15.357	0	-0.039	0.005	8	-0.14	0.27	2	4	28.63	1.98	1292.28	1293.22	9	0.94
11661	67	3	0	0	4	0.006	0.000	-2.875	22.982	0	-0.002	0.001	2	-0.05	0.07	2	4	28.00	0.00	1293.25	1294.19	1	0.94
11661	67	3	0	0	4	0.000	0.000	-2.000	13.667	0	-0.011	0.001	0	0.00	0.00	2	4	27.71	0.57	1294.22	1295.13	3	0.91
11661	67	3	0	0	4	-0.010	0.000	0.250	2.917	0	-0.002	0.000	0	0.00	0.00	2	4	28.00	0.00	1295.16	1295.28	1	0.12
11661	67	3	0	0	4	0.003	0.000	3.154	5.308	1	-0.105	0.005	13	-0.08	0.43	2	4	22.85	17.47	1296.01	1297.10	10	1.09
11661	67	3	0	0	4	0.007	0.000	2.000	3.000	0	-0.073	0.001	3	-0.08	0.10	2	4	24.00	0.00	1297.13	1297.22	1	0.09
11661	67	3	0	0	4	0.002	0.000	3.750	3.583	0	-0.110	0.002	4	-0.09	0.13	2	4	23.75	0.25	1297.25	1298.07	10	0.82
11661	67	3	0	0	4	0.006	0.000	5.000	1.333	0	-0.161	0.001	7	-0.15	0.23	2	4	20.43	9.95	1298.10	1299.01	1	0.91
11661	67	3	0	0	4	0.024	0.000	32.056	2068.056	0	-0.116	0.012	18	-0.22	0.60	2	4	10.50	44.85	1299.04	1300.28	10	1.24
11661	67	3	0	0	4	0.038	0.000	-12.600	86.800	0	-0.228	0.001	5	-0.25	0.17	2	4	12.40	12.80	1301.01	1301.16	5	0.15
11661	67	3	0	0	4	0.043	0.000	-16.000	0.000	0	-0.253	0.000	3	-0.26	0.10	2	4	11.33	9.33	1301.19	1301.28	1	0.09
11661	67	3	0	0	4	0.033	0.000	15.957	2948.134	1	-0.033	0.007	18	-0.26	0.60	2	4	4.74	3.84	1302.01	1304.10	5	2.09
11661	67	3	0	0	4	0.023	0.000	96.667	2.333	0	0.023	0.000	0	0.00	0.00	2	4	4.00	0.00	1304.13	1304.22	1	0.09
11661	67	3	0	0	4	0.020	0.000	88.200	266.200	0	0.024	0.000	0	0.00	0.00	2	4	4.00	0.00	1304.25	1305.10	5	0.85
11661	67	3	0	0	4	0.020	0.000	74.500	891.000	0	0.023	0.000	0	0.00	0.00	2	4	4.00	0.00	1305.13	1305.25	1	0.12
11661	67	3	0	0	4	0.033	0.000	4.714	3275.572	0	0.017	0.000	0	0.00	0.00	2	4	4.00	0.00	1305.28	1306.19	2	0.91
11661	67	3	0	0	4	0.038	0.000	-19.789	248.064	0	-0.034	0.002	0	0.00	0.00	2	4	3.26	2.32	1306.22	1308.19	1	1.97
11661	67	3	0	0	4	0.038	0.000	-25.750	36.917	0	-0.018	0.002	4	0.00	0.13	2	4	4.00	0.00	1308.22	1309.04	9	0.82
11661	67	3	0	0	4	0.030	0.000	-23.500	13.667	0	-0.045	0.001	4	-0.04	0.13	2	4	4.00	0.00	1309.07	1309.19	1	0.12
11661	67	3	0	0	4	0.032	0.000	-18.167	34.967	0	-0.068	0.001	6	-0.08	0.20	2	4	4.00	0.00	1309.22	1310.10	10	0.88
11661	67	3	0	0	4	0.032	0.000	-15.375	39.982	0	-0.070	0.002	8	-0.10	0.27	2	4	3.13	2.70	1310.13	1311.07	1	0.94
11661	67	3	0	0	4	0.038	0.000	-12.167	1.367	0	-0.075	0.002	6	-0.10	0.20	2	4	2.67	4.27	1311.10	1311.28	10	0.18
11661	67	3	0	0	4	0.036	0.000	-11.400	0.300	0	-0.058	0.003	5	-0.11	0.17	2	4	1.80	4.20	1312.01	1312.16	1	0.15
11661	67	3	0	0	4	0.031	0.003	-22.725	2880.236	1	0.012	0.003	506	-0.10	16.87	2	4	13.80	203.22	1312.19	1367.07	0	54.88

11681	73	3	0	0	6	-0.011	0.000	-2.889	2.111	0	0.038	0.000	0	0.00	0.00	2	2	32.00	0.00	2151.16	2152.13	2	0.97
11681	73	3	0	0	6	-0.008	0.000	-1.804	2.961	2	0.024	0.000	0	0.00	0.00	2	2	32.00	0.00	2152.16	2157.19	1	5.03
11681	73	3	0	0	6	-0.005	0.000	-1.778	3.124	0	0.023	0.000	0	0.00	0.00	2	2	32.00	0.00	2157.22	2159.16	2	1.94
11681	73	3	0	0	6	-0.016	0.003	-0.157	193.748	2	0.006	0.001	0	0.00	0.00	2	2	29.88	11.50	2159.19	2168.16	1	8.97
11681	73	3	0	0	6	-0.007	0.000	-2.000	4.154	0	0.017	0.000	0	0.00	0.00	2	2	32.00	0.00	2168.19	2170.01	3	1.82
11681	73	3	0	0	6	-0.028	0.004	3.196	213.688	2	-0.004	0.001	9	-0.02	0.30	2	2	29.61	11.81	2170.04	2175.22	1	5.18
11681	73	3	0	0	6	-0.002	0.000	-1.875	2.783	0	0.004	0.000	1	-0.01	0.03	2	2	32.00	0.00	2175.25	2177.13	11	1.88
11681	73	3	0	0	6	0.003	0.008	16.765	5630.207	2	-0.001	0.012	52	-0.11	1.73	2	2	21.95	79.19	2177.16	2186.01	1	8.85
11681	73	3	0	0	6	-0.065	0.009	9.474	650.596	0	0.007	0.002	19	-0.07	0.63	2	2	24.47	1.60	2186.04	2188.01	2	1.97
11681	73	3	0	0	6	-0.001	0.011	-9.042	809.259	1	0.024	0.000	0	0.00	0.00	2	2	24.00	0.00	2188.04	2190.16	1	2.12
11681	73	3	0	0	6	0.049	0.003	-25.278	207.624	0	0.022	0.000	0	0.00	0.00	2	2	24.00	0.00	2190.19	2192.13	3	1.94
11681	73	3	0	0	6	0.046	0.010	24.762	10930.235	0	-0.017	0.017	0	0.00	0.00	2	2	17.60	75.32	2192.16	2196.22	1	4.06
11681	73	3	0	0	6	0.070	0.012	-9.640	2920.490	0	-0.096	0.009	16	-0.06	0.53	2	2	18.16	65.89	2196.25	2199.10	3	2.85
11681	73	3	0	0	6	-0.007	0.005	50.676	9939.835	1	0.032	0.028	37	-0.25	1.23	2	2	13.73	56.81	2199.13	2203.04	1	3.91
11681	73	3	0	0	6	-0.022	0.001	124.571	13749.955	0	-0.026	0.034	14	-0.26	0.47	2	2	6.86	16.90	2203.07	2204.19	11	1.12
11681	73	3	0	0	6	-0.017	0.001	164.800	11618.400	0	0.042	0.024	10	-0.13	0.33	2	2	4.70	2.23	2204.22	2205.22	2	1.00
11681	73	3	0	0	6	-0.036	0.001	106.722	13262.212	0	0.156	0.010	4	-0.14	0.13	2	2	9.17	31.56	2205.25	2207.19	11	1.94
11681	73	3	0	0	6	-0.021	0.001	26.571	5672.151	1	0.121	0.005	0	0.00	0.00	2	2	21.64	66.24	2207.22	2211.28	2	4.06
11681	73	3	0	0	6	-0.014	0.000	-1.650	13.054	2	0.072	0.002	0	0.00	0.00	2	2	26.40	8.61	2212.01	2216.01	1	4.00
11681	73	3	0	0	6	-0.020	0.001	-0.357	7.940	1	0.069	0.001	0	0.00	0.00	2	2	27.79	0.64	2216.04	2217.16	2	1.12
11681	73	3	0	0	6	-0.021	0.000	-0.562	5.596	0	0.057	0.000	0	0.00	0.00	2	2	28.00	0.00	2217.19	2219.07	1	1.88
11681	73	3	0	0	6	-0.038	0.000	1.500	1.000	0	0.055	0.000	0	0.00	0.00	2	2	28.00	0.00	2219.10	2219.22	11	0.12
11681	73	3	0	0	6	-0.007	0.000	-2.409	3.178	1	0.025	0.001	0	0.00	0.00	2	2	28.00	0.00	2219.25	2224.07	1	4.82
11681	73	3	0	0	6	-0.012	0.000	-2.286	1.912	0	0.022	0.000	0	0.00	0.00	2	2	28.00	0.00	2224.10	2225.22	2	1.12
11681	73	3	0	0	6	-0.012	0.000	-2.538	3.436	0	0.015	0.000	0	0.00	0.00	2	2	28.00	0.00	2225.25	2227.04	1	1.79
11681	73	3	0	0	6	-0.008	0.000	-1.800	4.200	0	0.018	0.000	0	0.00	0.00	2	2	28.00	0.00	2227.07	2227.22	11	0.15
11681	73	3	0	0	6	0.006	0.000	-2.977	4.833	0	0.022	0.001	0	0.00	0.00	2	2	27.98	0.02	2227.25	2232.04	1	4.79
18901	18	1	0	0	4	0.018	0.000	-1.333	5.000	0	0.002	0.000	0	0.00	0.00	3	4	45.00	3.00	1066.01	1066.28	10	0.27
18901	18	1	0	0	4	0.004	0.000	-0.250	2.786	0	0.013	0.000	0	0.00	0.00	3	4	44.00	0.00	1067.01	1067.25	1	0.24
18901	18	1	0	0	4	-0.001	0.000	0.375	2.554	0	0.021	0.000	0	0.00	0.00	3	4	44.00	0.00	1067.28	1068.22	10	0.94
18901	18	1	0	0	4	0.017	0.001	-2.143	9.534	1	0.029	0.000	0	0.00	0.00	3	4	45.64	3.65	1068.25	1071.19	1	2.94
18901	18	1	0	0	4	0.046	0.001	-6.333	3.500	0	0.009	0.000	0	0.00	0.00	3	4	46.00	3.75	1071.22	1072.19	1	0.97
18901	18	1	0	0	4	0.055	0.000	-7.750	0.250	0	0.007	0.000	0	0.00	0.00	3	4	47.50	1.00	1072.22	1073.04	10	0.82
18901	18	1	0	0	4	0.045	0.000	-7.000	2.000	0	-0.005	0.000	4	-0.01	0.13	3	4	48.00	0.00	1073.07	1073.19	1	0.12
18901	18	1	0	0	4	0.021	0.000	-3.900	3.678	0	0.022	0.001	0	0.00	0.00	3	4	45.60	3.60	1073.22	1074.22	10	1.00
18901	18	1	0	0	4	0.008	0.000	-2.273	2.018	0	0.035	0.001	0	0.00	0.00	3	4	45.82	3.76	1074.25	1075.28	1	1.03

18901	18	1	0	0	4	0.003	0.000	-1.857	0.476	0	0.049	0.000	0	0.00	0.00	3	4	46.14	4.14	1076.01	1076.22	10	0.21
18901	18	1	0	0	4	0.012	0.000	-1.357	2.247	0	0.045	0.000	0	0.00	0.00	3	4	47.64	1.17	1076.25	1078.07	1	1.82
18901	18	1	0	0	4	-0.007	0.000	0.000	1.000	0	0.043	0.000	0	0.00	0.00	3	4	48.00	0.00	1078.10	1078.19	2	0.09
18901	18	1	0	0	4	0.016	0.001	-1.250	3.295	0	0.042	0.000	0	0.00	0.00	3	4	48.00	0.00	1078.22	1079.28	1	1.06
18901	18	1	0	0	4	0.027	0.000	-2.125	1.268	0	0.043	0.000	0	0.00	0.00	3	4	48.00	0.00	1080.01	1080.25	10	0.24
18901	18	1	0	0	4	0.019	0.000	-3.423	2.094	0	0.045	0.001	0	0.00	0.00	3	4	48.12	0.35	1080.28	1083.16	1	2.88
18901	18	1	0	0	4	0.013	0.000	-4.250	2.214	0	0.058	0.000	0	0.00	0.00	3	4	48.00	0.00	1083.19	1084.13	10	0.94
18901	18	1	0	0	4	0.015	0.000	-3.731	1.725	0	0.033	0.000	0	0.00	0.00	3	4	49.46	3.62	1084.16	1087.04	1	2.88
18901	18	1	0	0	4	0.013	0.000	-3.286	2.571	0	0.031	0.001	0	0.00	0.00	3	4	48.00	0.00	1087.07	1087.28	3	0.21
18901	18	1	0	0	4	0.025	0.000	-2.500	4.500	0	0.050	0.000	0	0.00	0.00	3	4	48.00	0.00	1088.01	1088.07	1	0.06
18901	18	1	0	0	4	0.011	0.000	-2.857	2.143	0	0.026	0.001	0	0.00	0.00	3	4	48.29	0.57	1088.10	1089.01	10	0.91
18901	18	1	0	0	4	0.016	0.000	-3.864	1.266	0	0.016	0.000	0	0.00	0.00	3	4	49.77	3.80	1089.04	1091.10	1	2.06
18901	18	1	0	0	4	0.015	0.000	-3.917	0.265	0	0.019	0.000	0	0.00	0.00	3	4	50.83	3.24	1091.13	1092.19	2	1.06
18901	18	1	0	0	4	0.014	0.000	-4.222	0.944	0	0.019	0.000	0	0.00	0.00	3	4	50.33	4.00	1092.22	1093.19	1	0.97
18901	18	1	0	0	4	0.011	0.000	-3.571	0.952	0	0.014	0.000	0	0.00	0.00	3	4	49.57	3.95	1093.22	1094.13	10	0.91
18901	18	1	0	0	4	0.007	0.000	-3.000	1.000	0	0.020	0.000	0	0.00	0.00	3	4	49.00	3.00	1094.16	1094.25	1	0.09
18901	18	1	0	0	4	0.020	0.000	-3.625	3.183	0	0.026	0.001	0	0.00	0.00	3	4	48.00	0.00	1094.28	1096.16	10	1.88
18901	18	1	0	0	4	0.025	0.001	-4.250	1.583	0	0.018	0.001	0	0.00	0.00	3	4	48.00	0.00	1096.19	1097.01	1	0.82
18901	18	1	0	0	4	0.031	0.000	-4.750	3.357	0	0.040	0.000	0	0.00	0.00	3	4	48.00	0.00	1097.04	1097.28	10	0.24
18901	18	1	0	0	4	0.032	0.000	-4.333	5.067	0	0.047	0.000	0	0.00	0.00	3	4	48.00	0.00	1098.01	1098.19	1	0.18
18901	18	1	0	0	4	0.019	0.000	-3.429	1.619	0	0.026	0.001	0	0.00	0.00	3	4	48.00	0.00	1098.22	1099.13	10	0.91
18901	18	1	0	0	4	0.010	0.000	-2.571	1.557	0	0.005	0.000	0	0.00	0.00	3	4	46.00	4.00	1099.16	1101.19	1	2.03
18901	18	1	0	0	4	0.013	0.000	-3.273	1.418	0	-0.001	0.000	0	0.00	0.00	3	4	45.91	4.09	1101.22	1102.25	10	1.03
18901	18	1	0	0	4	0.016	0.000	-3.000	2.000	0	-0.007	0.000	7	-0.05	0.23	3	4	45.29	3.57	1102.28	1103.19	1	0.91
18901	18	1	0	0	4	0.011	0.000	-3.000	1.500	0	0.013	0.001	0	0.00	0.00	3	4	44.11	0.11	1103.22	1104.19	10	0.97
18901	18	1	0	0	4	0.002	0.000	-1.750	0.917	0	-0.005	0.000	0	0.00	0.00	3	4	44.00	0.00	1104.22	1105.04	1	0.82
18901	18	1	0	0	4	0.012	0.000	-3.000	1.778	0	0.018	0.000	0	0.00	0.00	3	4	44.00	0.00	1105.07	1106.07	10	1.00
18901	18	1	0	0	4	0.020	0.000	-3.500	0.500	0	0.035	0.000	0	0.00	0.00	3	4	44.00	0.00	1106.10	1106.13	1	0.03
18901	18	1	0	0	4	0.016	0.000	-2.556	1.278	0	0.036	0.001	0	0.00	0.00	3	4	44.00	0.00	1106.16	1107.13	10	0.97
18901	18	1	0	0	4	0.010	0.000	-3.500	5.667	0	0.015	0.000	0	0.00	0.00	3	4	44.00	0.00	1107.16	1107.28	1	0.12
18901	18	1	0	0	4	0.014	0.000	-4.182	2.164	0	0.046	0.000	0	0.00	0.00	3	4	46.00	4.00	1108.01	1109.04	10	1.03
18901	18	1	0	0	4	0.003	0.000	-3.333	1.333	0	0.070	0.000	0	0.00	0.00	3	4	44.67	1.33	1109.07	1109.16	1	0.09
18901	18	1	0	0	4	0.009	0.000	-5.000	4.267	0	0.022	0.002	0	0.00	0.00	3	4	47.63	1.18	1109.19	1111.07	10	1.88
18901	18	1	0	0	4	0.010	0.000	-6.750	2.917	0	0.032	0.000	0	0.00	0.00	3	4	48.00	0.00	1111.10	1111.22	1	0.12
18901	18	1	0	0	4	0.015	0.000	-5.455	2.073	0	0.009	0.001	0	0.00	0.00	3	4	48.00	0.00	1111.25	1112.28	10	1.03
18901	18	1	0	0	4	0.012	0.000	-4.750	6.205	0	-0.007	0.001	0	0.00	0.00	3	4	47.83	0.33	1113.01	1114.07	1	1.06

18901	18	1	0	0	4	0.007	0.000	-4.333	6.750	0	-0.019	0.001	8	-0.04	0.27	3	4	47.78	0.44	1114.10	1115.07	10	0.97
18901	18	1	0	0	4	0.000	0.000	-5.000	9.500	0	0.000	0.000	4	-0.08	0.13	3	4	48.00	0.00	1115.10	1115.25	1	0.15
18901	18	1	0	0	4	0.005	0.000	-4.250	7.071	0	-0.049	0.003	0	0.00	0.00	3	4	46.25	3.93	1115.28	1116.22	10	0.94
18901	18	1	0	0	4	0.021	0.001	-5.400	18.114	0	-0.086	0.008	13	-0.11	0.43	3	4	40.87	18.27	1116.25	1118.10	1	1.85
18901	18	1	0	0	4	0.013	0.000	-4.500	6.333	0	-0.120	0.000	4	-0.12	0.13	3	4	41.75	4.25	1118.13	1118.25	3	0.12
18901	18	1	0	0	4	0.042	0.000	-7.333	19.067	0	-0.057	0.005	6	-0.13	0.20	3	4	39.50	3.90	1118.28	1119.16	4	0.88
18901	18	1	0	0	4	0.055	0.000	-10.250	6.917	0	-0.038	0.005	4	-0.14	0.13	3	4	39.25	2.25	1119.19	1120.01	8	0.82
18901	18	1	0	0	4	0.052	0.000	-10.750	1.583	0	0.000	0.001	0	0.00	0.00	3	4	37.75	4.25	1120.04	1120.16	1	0.12
18901	18	1	0	0	4	0.010	0.002	-2.667	46.500	0	-0.103	0.014	0	0.00	0.00	3	4	34.44	10.03	1120.19	1121.16	8	0.97
18901	18	1	0	0	4	-0.001	0.001	-2.824	21.779	0	-0.045	0.016	14	-0.29	0.47	3	4	30.06	10.81	1121.19	1123.10	1	1.91
18901	18	1	0	0	4	0.009	0.000	-3.158	22.363	1	0.019	0.003	6	-0.11	0.20	3	4	28.16	0.47	1123.13	1125.10	10	1.97
18901	18	1	0	0	4	0.016	0.000	-4.087	12.083	0	0.064	0.003	6	-0.04	0.20	3	4	29.57	6.26	1125.13	1127.22	1	2.09
18901	18	1	0	0	4	0.007	0.000	-0.333	0.333	0	-0.010	0.000	3	-0.02	0.10	3	4	28.00	0.00	1127.25	1128.04	4	0.79
18901	18	1	0	0	4	0.007	0.000	0.333	0.333	0	-0.003	0.000	3	-0.02	0.10	3	4	28.00	0.00	1128.07	1128.16	1	0.09
18901	18	1	0	0	4	0.014	0.000	-2.400	18.300	0	0.026	0.001	0	0.00	0.00	3	4	28.00	0.00	1128.19	1129.04	4	0.85
18901	18	1	0	0	4	0.015	0.000	-3.700	8.326	0	0.090	0.001	0	0.00	0.00	3	4	32.40	12.04	1129.07	1131.07	1	2.00
18901	18	1	0	0	4	0.013	0.000	-3.000	2.444	0	0.105	0.001	0	0.00	0.00	3	4	32.90	6.77	1131.10	1132.10	10	1.00
18901	18	1	0	0	4	0.003	0.000	-2.667	4.333	0	0.107	0.000	0	0.00	0.00	3	4	32.00	0.00	1132.13	1132.22	1	0.09
18901	18	1	0	0	4	0.007	0.000	-2.222	1.944	0	0.089	0.001	0	0.00	0.00	3	4	34.89	3.11	1132.25	1133.22	10	0.97
18901	18	1	0	0	4	0.005	0.000	-3.625	2.554	0	0.088	0.000	0	0.00	0.00	3	4	35.88	0.13	1133.25	1134.19	1	0.94
18901	18	1	0	0	4	0.011	0.000	-3.778	5.124	0	0.038	0.001	0	0.00	0.00	3	4	38.56	3.67	1134.22	1136.16	10	1.94
18901	18	1	0	0	4	0.024	0.000	-6.200	1.700	0	0.058	0.000	0	0.00	0.00	3	4	38.80	3.20	1136.19	1137.04	2	0.85
18901	18	1	0	0	4	0.005	0.000	-3.500	7.192	0	0.023	0.002	0	0.00	0.00	3	4	39.71	0.68	1137.07	1138.19	1	1.12
18901	18	1	0	0	4	0.008	0.000	-4.444	10.967	0	0.015	0.002	0	0.00	0.00	3	4	38.39	3.43	1138.22	1140.16	10	1.94
18901	18	1	0	0	4	-0.008	0.000	-1.200	0.200	0	-0.028	0.001	4	-0.02	0.13	3	4	39.60	0.80	1140.19	1141.04	1	0.85
18901	18	1	0	0	4	0.004	0.000	-4.857	8.593	1	0.018	0.002	10	-0.06	0.33	3	4	37.36	3.17	1141.07	1142.19	10	1.12
18901	18	1	0	0	4	0.020	0.000	-7.000	8.500	0	0.024	0.001	0	0.00	0.00	3	4	36.00	0.00	1142.22	1143.07	1	0.85
18901	18	1	0	0	4	0.018	0.000	-7.000	2.400	0	0.053	0.001	0	0.00	0.00	3	4	36.83	1.77	1143.10	1143.28	11	0.18
18901	18	1	0	0	4	0.004	0.001	-4.429	14.725	0	0.048	0.001	0	0.00	0.00	3	4	36.57	1.34	1144.01	1145.13	10	1.12
18901	18	1	0	0	4	0.011	0.000	-5.125	4.125	0	0.026	0.000	0	0.00	0.00	3	4	36.00	0.00	1145.16	1146.10	1	0.94
18901	18	1	0	0	4	0.010	0.000	-3.500	5.667	0	0.013	0.000	0	0.00	0.00	3	4	36.00	0.00	1146.13	1146.25	4	0.12
18901	18	1	0	0	4	0.023	0.000	-5.250	8.917	0	0.020	0.000	0	0.00	0.00	3	4	36.00	0.00	1146.28	1147.10	1	0.82
18901	18	1	0	0	4	0.008	0.002	-2.692	24.564	1	0.102	0.003	0	0.00	0.00	3	4	40.00	13.17	1147.13	1148.22	7	1.09
18901	18	1	0	0	4	-0.047	0.001	3.750	1.583	0	0.115	0.001	0	0.00	0.00	3	4	38.50	3.67	1148.25	1149.07	1	0.82
18901	18	1	0	0	4	0.018	0.000	-1.333	5.000	0	0.002	0.000	0	0.00	0.00	3	4	45.00	3.00	1066.01	1066.28	10	0.27
18901	18	1	0	0	4	0.004	0.000	-0.250	2.786	0	0.013	0.000	0	0.00	0.00	3	4	44.00	0.00	1067.01	1067.25	1	0.24

18901	18	1	0	0	4	-0.001	0.000	0.375	2.554	0	0.021	0.000	0	0.00	0.00	3	4	44.00	0.00	1067.28	1068.22	10	0.94
18901	18	1	0	0	4	0.017	0.001	-2.143	9.534	1	0.029	0.000	0	0.00	0.00	3	4	45.64	3.65	1068.25	1071.19	1	2.94
18901	18	1	0	0	4	0.046	0.001	-6.333	3.500	0	0.009	0.000	0	0.00	0.00	3	4	46.00	3.75	1071.22	1072.19	1	0.97
18901	18	1	0	0	4	0.055	0.000	-7.750	0.260	0	0.007	0.000	0	0.00	0.00	3	4	47.50	1.00	1072.22	1073.04	10	0.82
18901	18	1	0	0	4	0.045	0.000	-7.000	2.000	0	-0.005	0.000	4	-0.01	0.13	3	4	48.00	0.00	1073.07	1073.19	1	0.12
18901	18	1	0	0	4	0.021	0.000	-3.900	3.878	0	0.022	0.001	0	0.00	0.00	3	4	45.60	3.60	1073.22	1074.22	10	1.00
18901	18	1	0	0	4	0.008	0.000	-2.273	2.018	0	0.035	0.001	0	0.00	0.00	3	4	45.82	3.76	1074.25	1075.28	1	1.03
18901	18	1	0	0	4	0.003	0.000	-1.857	0.476	0	0.049	0.000	0	0.00	0.00	3	4	46.14	4.14	1076.01	1076.22	10	0.21
18901	18	1	0	0	4	0.012	0.000	-1.357	2.247	0	0.045	0.000	0	0.00	0.00	3	4	47.64	1.17	1076.25	1078.07	1	1.82
18901	18	1	0	0	4	-0.007	0.000	0.000	1.000	0	0.043	0.000	0	0.00	0.00	3	4	48.00	0.00	1078.10	1078.19	2	0.09
18901	18	1	0	0	4	0.016	0.001	-1.250	3.295	0	0.042	0.000	0	0.00	0.00	3	4	48.00	0.00	1078.22	1079.28	1	1.06
18901	18	1	0	0	4	0.027	0.000	-2.125	1.268	0	0.043	0.000	0	0.00	0.00	3	4	48.00	0.00	1080.01	1080.25	10	0.24
18901	18	1	0	0	4	0.019	0.000	-3.423	2.094	0	0.045	0.001	0	0.00	0.00	3	4	48.12	0.35	1080.28	1083.16	1	2.88
18901	18	1	0	0	4	0.013	0.000	-4.250	2.214	0	0.058	0.000	0	0.00	0.00	3	4	48.00	0.00	1083.19	1084.13	10	0.94
18901	18	1	0	0	4	0.015	0.000	-3.731	1.725	0	0.033	0.000	0	0.00	0.00	3	4	49.46	3.62	1084.16	1087.04	1	2.88
18901	18	1	0	0	4	0.013	0.000	-3.286	2.571	0	0.031	0.001	0	0.00	0.00	3	4	48.00	0.00	1087.07	1087.28	3	0.21
18901	18	1	0	0	4	0.025	0.000	-2.500	4.500	0	0.050	0.000	0	0.00	0.00	3	4	48.00	0.00	1088.01	1088.07	1	0.06
18901	18	1	0	0	4	0.011	0.000	-2.857	2.143	0	0.026	0.001	0	0.00	0.00	3	4	48.29	0.57	1088.10	1089.01	10	0.91
18901	18	1	0	0	4	0.016	0.000	-3.864	1.266	0	0.016	0.000	0	0.00	0.00	3	4	49.77	3.80	1089.04	1091.10	1	2.06
18901	18	1	0	0	4	0.015	0.000	-3.917	0.265	0	0.019	0.000	0	0.00	0.00	3	4	50.83	3.24	1091.13	1092.19	2	1.06
18901	18	1	0	0	4	0.014	0.000	-4.222	0.944	0	0.019	0.000	0	0.00	0.00	3	4	50.33	4.00	1092.22	1093.19	1	0.97
18901	18	1	0	0	4	0.011	0.000	-3.571	0.952	0	0.014	0.000	0	0.00	0.00	3	4	49.57	3.95	1093.22	1094.13	10	0.91
18901	18	1	0	0	4	0.007	0.000	-3.000	1.000	0	0.020	0.000	0	0.00	0.00	3	4	49.00	3.00	1094.16	1094.25	1	0.09
18901	18	1	0	0	4	0.020	0.000	-3.625	3.183	0	0.026	0.001	0	0.00	0.00	3	4	48.00	0.00	1094.28	1096.16	10	1.88
18901	18	1	0	0	4	0.025	0.001	-4.250	1.583	0	0.018	0.001	0	0.00	0.00	3	4	48.00	0.00	1096.19	1097.01	1	0.82
18901	18	1	0	0	4	0.031	0.000	-4.750	3.357	0	0.040	0.000	0	0.00	0.00	3	4	48.00	0.00	1097.04	1097.28	10	0.24
18901	18	1	0	0	4	0.032	0.000	-4.333	5.067	0	0.047	0.000	0	0.00	0.00	3	4	48.00	0.00	1098.01	1098.19	1	0.18
18901	18	1	0	0	4	0.019	0.000	-3.429	1.619	0	0.026	0.001	0	0.00	0.00	3	4	48.00	0.00	1098.22	1099.13	10	0.91
18901	18	1	0	0	4	0.010	0.000	-2.571	1.557	0	0.005	0.000	0	0.00	0.00	3	4	46.00	4.00	1099.16	1101.19	1	2.03
18901	18	1	0	0	4	0.013	0.000	-3.273	1.418	0	-0.001	0.000	0	0.00	0.00	3	4	45.91	4.09	1101.22	1102.25	10	1.03
18901	18	1	0	0	4	0.016	0.000	-3.000	2.000	0	-0.007	0.000	7	-0.05	0.23	3	4	45.29	3.57	1102.28	1103.19	1	0.91
18901	18	1	0	0	4	0.011	0.000	-3.000	1.500	0	0.013	0.001	0	0.00	0.00	3	4	44.11	0.11	1103.22	1104.19	10	0.97
18901	18	1	0	0	4	0.002	0.000	-1.750	0.917	0	-0.005	0.000	0	0.00	0.00	3	4	44.00	0.00	1104.22	1105.04	1	0.82
18901	18	1	0	0	4	0.012	0.000	-3.000	1.778	0	0.018	0.000	0	0.00	0.00	3	4	44.00	0.00	1105.07	1106.07	10	1.00
18901	18	1	0	0	4	0.020	0.000	-3.500	0.500	0	0.035	0.000	0	0.00	0.00	3	4	44.00	0.00	1106.10	1106.13	1	0.03
18901	18	1	0	0	4	0.016	0.000	-2.556	1.278	0	0.036	0.001	0	0.00	0.00	3	4	44.00	0.00	1106.16	1107.13	10	0.97

18901	18	1	0	0	4	0.010	0.000	-3.500	5.667	0	0.015	0.000	0	0.00	0.00	0.00	3	4	44.00	0.00	1107.16	1107.28	1	0.12
18901	18	1	0	0	4	0.014	0.000	-4.182	2.164	0	0.046	0.000	0	0.00	0.00	0.00	3	4	46.00	4.00	1108.01	1109.04	10	1.03
18901	18	1	0	0	4	0.003	0.000	-3.333	1.333	0	0.070	0.000	0	0.00	0.00	0.00	3	4	44.67	1.33	1109.07	1109.16	1	0.09
18901	18	1	0	0	4	0.009	0.000	-5.000	4.267	0	0.022	0.002	0	0.00	0.00	0.00	3	4	47.63	1.18	1109.19	1111.07	10	1.88
18901	18	1	0	0	4	0.010	0.000	-6.750	2.917	0	0.032	0.000	0	0.00	0.00	0.00	3	4	48.00	0.00	1111.10	1111.22	1	0.12
18901	18	1	0	0	4	0.015	0.000	-5.455	2.073	0	0.009	0.001	0	0.00	0.00	0.00	3	4	48.00	0.00	1111.25	1112.28	10	1.03
18901	18	1	0	0	4	0.012	0.000	-4.750	6.205	0	-0.007	0.001	0	0.00	0.00	0.00	3	4	47.83	0.33	1113.01	1114.07	1	1.06
18901	18	1	0	0	4	0.007	0.000	-4.333	6.750	0	-0.019	0.001	8	-0.04	0.27	3	4	47.78	0.44	1114.10	1115.07	10	0.97	
18901	18	1	0	0	4	0.000	0.000	-5.000	9.500	0	0.000	0.000	4	-0.08	0.13	3	4	48.00	0.00	1115.10	1115.25	1	0.15	
18901	18	1	0	0	4	0.005	0.000	-4.250	7.071	0	-0.049	0.003	0	0.00	0.00	0.00	3	4	46.25	3.93	1115.28	1116.22	10	0.94
18901	18	1	0	0	4	0.021	0.001	-5.400	18.114	0	-0.086	0.008	13	-0.11	0.43	3	4	40.87	18.27	1116.25	1118.10	1	1.85	
18901	18	1	0	0	4	0.013	0.000	-4.500	6.333	0	-0.120	0.000	4	-0.12	0.13	3	4	41.75	4.25	1118.13	1118.25	3	0.12	
18901	18	1	0	0	4	0.042	0.000	-7.333	19.067	0	-0.057	0.005	6	-0.13	0.20	3	4	39.50	3.90	1118.28	1119.16	4	0.88	
18901	18	1	0	0	4	0.055	0.000	-10.250	6.917	0	-0.038	0.005	4	-0.14	0.13	3	4	39.25	2.25	1119.19	1120.01	8	0.82	
18901	18	1	0	0	4	0.052	0.000	-10.750	1.583	0	0.000	0.001	0	0.00	0.00	3	4	37.75	4.25	1120.04	1120.16	1	0.12	
18901	18	1	0	0	4	0.010	0.002	-2.667	46.500	0	-0.103	0.014	0	0.00	0.00	0.00	3	4	34.44	10.03	1120.19	1121.16	8	0.97
18901	18	1	0	0	4	-0.001	0.001	-2.824	21.779	0	-0.045	0.016	14	-0.29	0.47	3	4	30.06	10.81	1121.19	1123.10	1	1.91	
18901	18	1	0	0	4	0.009	0.000	-3.158	22.363	1	0.019	0.003	6	-0.11	0.20	3	4	28.16	0.47	1123.13	1125.10	10	1.97	
18901	18	1	0	0	4	0.016	0.000	-4.087	12.083	0	0.064	0.003	6	-0.04	0.20	3	4	29.57	6.26	1125.13	1127.22	1	2.09	
18901	18	1	0	0	4	0.007	0.000	-0.333	0.333	0	-0.010	0.000	3	-0.02	0.10	3	4	28.00	0.00	1127.25	1128.04	4	0.79	
18901	18	1	0	0	4	0.007	0.000	0.333	0.333	0	-0.003	0.000	3	-0.02	0.10	3	4	28.00	0.00	1128.07	1128.16	1	0.09	
18901	18	1	0	0	4	0.014	0.000	-2.400	18.300	0	0.026	0.001	0	0.00	0.00	3	4	28.00	0.00	1128.19	1129.04	4	0.85	
18901	18	1	0	0	4	0.015	0.000	-3.700	8.326	0	0.090	0.001	0	0.00	0.00	3	4	32.40	12.04	1129.07	1131.07	1	2.00	
18901	18	1	0	0	4	0.013	0.000	-3.000	2.444	0	0.105	0.001	0	0.00	0.00	3	4	32.90	6.77	1131.10	1132.10	10	1.00	
18901	18	1	0	0	4	0.003	0.000	-2.667	4.333	0	0.107	0.000	0	0.00	0.00	3	4	32.00	0.00	1132.13	1132.22	1	0.09	
18901	18	1	0	0	4	0.007	0.000	-2.222	1.944	0	0.089	0.001	0	0.00	0.00	3	4	34.89	3.11	1132.25	1133.22	10	0.97	
18901	18	1	0	0	4	0.005	0.000	-3.625	2.554	0	0.068	0.000	0	0.00	0.00	3	4	35.88	0.13	1133.25	1134.19	1	0.94	
18901	18	1	0	0	4	0.011	0.000	-3.778	5.124	0	0.038	0.001	0	0.00	0.00	3	4	38.56	3.67	1134.22	1136.16	10	1.94	
18901	18	1	0	0	4	0.024	0.000	-6.200	1.700	0	0.058	0.000	0	0.00	0.00	3	4	38.80	3.20	1136.19	1137.04	2	0.85	
18901	18	1	0	0	4	0.005	0.000	-3.500	7.192	0	0.023	0.002	0	0.00	0.00	3	4	39.71	0.68	1137.07	1138.19	1	1.12	
18901	18	1	0	0	4	0.008	0.000	-4.444	10.967	0	0.015	0.002	0	0.00	0.00	3	4	38.39	3.43	1138.22	1140.16	10	1.94	
18901	18	1	0	0	4	-0.008	0.000	-1.200	0.200	0	-0.028	0.001	4	-0.02	0.13	3	4	39.60	0.80	1140.19	1141.04	1	0.85	
18901	18	1	0	0	4	0.004	0.000	-4.857	8.593	1	0.018	0.002	10	-0.06	0.33	3	4	37.36	3.17	1141.07	1142.19	10	1.12	
18901	18	1	0	0	4	0.020	0.000	-7.000	8.500	0	0.024	0.001	0	0.00	0.00	3	4	36.00	0.00	1142.22	1143.07	1	0.85	
18901	18	1	0	0	4	0.018	0.000	-7.000	2.400	0	0.053	0.001	0	0.00	0.00	3	4	36.83	1.77	1143.10	1143.28	11	0.18	
18901	18	1	0	0	4	0.004	0.001	-4.429	14.725	0	0.048	0.001	0	0.00	0.00	3	4	36.57	1.34	1144.01	1145.13	10	1.12	

18901	18	1	0	0	4	0.011	0.000	-5.125	4.125	0	0.026	0.000	0	0.00	0.00	3	4	36.00	0.00	1145.16	1146.10	1	0.94
18901	18	1	0	0	4	0.010	0.000	-3.500	5.667	0	0.013	0.000	0	0.00	0.00	3	4	36.00	0.00	1146.13	1146.25	4	0.12
18901	18	1	0	0	4	0.023	0.000	-5.250	8.917	0	0.020	0.000	0	0.00	0.00	3	4	36.00	0.00	1146.28	1147.10	1	0.82
18901	18	1	0	0	4	0.008	0.002	-2.692	24.564	1	0.102	0.003	0	0.00	0.00	3	4	40.00	13.17	1147.13	1148.22	7	1.09
18901	18	1	0	0	4	-0.047	0.001	3.750	1.583	0	0.115	0.001	0	0.00	0.00	3	4	38.50	3.67	1148.25	1149.07	1	0.82
18901	18	1	0	0	4	0.018	0.000	-1.333	5.000	0	0.002	0.000	0	0.00	0.00	3	4	45.00	3.00	1066.01	1066.28	10	0.27
18901	18	1	0	0	4	0.004	0.000	-0.250	2.786	0	0.013	0.000	0	0.00	0.00	3	4	44.00	0.00	1067.01	1067.25	1	0.24
18901	18	1	0	0	4	-0.001	0.000	0.375	2.554	0	0.021	0.000	0	0.00	0.00	3	4	44.00	0.00	1067.28	1068.22	10	0.94
18901	18	1	0	0	4	0.017	0.001	-2.143	9.534	1	0.029	0.000	0	0.00	0.00	3	4	45.64	3.65	1068.25	1071.19	1	2.94
18901	18	1	0	0	4	0.046	0.001	-6.333	3.500	0	0.009	0.000	0	0.00	0.00	3	4	46.00	3.75	1071.22	1072.19	1	0.97
18901	18	1	0	0	4	0.055	0.000	-7.750	0.250	0	0.007	0.000	0	0.00	0.00	3	4	47.50	1.00	1072.22	1073.04	10	0.82
18901	18	1	0	0	4	0.045	0.000	-7.000	2.000	0	-0.005	0.000	4	-0.01	0.13	3	4	48.00	0.00	1073.07	1073.19	1	0.12
18901	18	1	0	0	4	0.021	0.000	-3.900	3.878	0	0.022	0.001	0	0.00	0.00	3	4	45.60	3.60	1073.22	1074.22	10	1.00
18901	18	1	0	0	4	0.008	0.000	-2.273	2.018	0	0.035	0.001	0	0.00	0.00	3	4	45.82	3.76	1074.25	1075.28	1	1.03
18901	18	1	0	0	4	0.003	0.000	-1.857	0.476	0	0.049	0.000	0	0.00	0.00	3	4	46.14	4.14	1076.01	1076.22	10	0.21
18901	18	1	0	0	4	0.012	0.000	-1.357	2.247	0	0.045	0.000	0	0.00	0.00	3	4	47.64	1.17	1076.25	1078.07	1	1.82
18901	18	1	0	0	4	-0.007	0.000	0.000	1.000	0	0.043	0.000	0	0.00	0.00	3	4	48.00	0.00	1078.10	1078.19	2	0.09
18901	18	1	0	0	4	0.016	0.001	-1.250	3.295	0	0.042	0.000	0	0.00	0.00	3	4	48.00	0.00	1078.22	1079.28	1	1.06
18901	18	1	0	0	4	0.027	0.000	-2.125	1.268	0	0.043	0.000	0	0.00	0.00	3	4	48.00	0.00	1080.01	1080.25	10	0.24
18901	18	1	0	0	4	0.019	0.000	-3.423	2.094	0	0.045	0.001	0	0.00	0.00	3	4	48.12	0.35	1080.28	1083.16	1	2.88
18901	18	1	0	0	4	0.013	0.000	-4.250	2.214	0	0.058	0.000	0	0.00	0.00	3	4	48.00	0.00	1083.19	1084.13	10	0.94
18901	18	1	0	0	4	0.015	0.000	-3.731	1.725	0	0.033	0.000	0	0.00	0.00	3	4	49.46	3.62	1084.16	1087.04	1	2.88
18901	18	1	0	0	4	0.013	0.000	-3.286	2.571	0	0.031	0.001	0	0.00	0.00	3	4	48.00	0.00	1087.07	1087.28	3	0.21
18901	18	1	0	0	4	0.025	0.000	-2.500	4.500	0	0.050	0.000	0	0.00	0.00	3	4	48.00	0.00	1088.01	1088.07	1	0.06
18901	18	1	0	0	4	0.011	0.000	-2.857	2.143	0	0.026	0.001	0	0.00	0.00	3	4	48.29	0.57	1088.10	1089.01	10	0.91
18901	18	1	0	0	4	0.016	0.000	-3.864	1.266	0	0.016	0.000	0	0.00	0.00	3	4	49.77	3.80	1089.04	1091.10	1	2.06
18901	18	1	0	0	4	0.015	0.000	-3.917	0.265	0	0.019	0.000	0	0.00	0.00	3	4	50.83	3.24	1091.13	1092.19	2	1.06
18901	18	1	0	0	4	0.014	0.000	-4.222	0.944	0	0.019	0.000	0	0.00	0.00	3	4	50.33	4.00	1092.22	1093.19	1	0.97
18901	18	1	0	0	4	0.011	0.000	-3.571	0.952	0	0.014	0.000	0	0.00	0.00	3	4	49.57	3.95	1093.22	1094.13	10	0.91
18901	18	1	0	0	4	0.007	0.000	-3.000	1.000	0	0.020	0.000	0	0.00	0.00	3	4	49.00	3.00	1094.16	1094.25	1	0.09
18901	18	1	0	0	4	0.020	0.000	-3.625	3.183	0	0.026	0.001	0	0.00	0.00	3	4	48.00	0.00	1094.28	1096.16	10	1.88
18901	18	1	0	0	4	0.025	0.001	-4.250	1.583	0	0.018	0.001	0	0.00	0.00	3	4	48.00	0.00	1096.19	1097.01	1	0.82
18901	18	1	0	0	4	0.031	0.000	-4.750	3.357	0	0.040	0.000	0	0.00	0.00	3	4	48.00	0.00	1097.04	1097.28	10	0.24
18901	18	1	0	0	4	0.032	0.000	-4.333	5.067	0	0.047	0.000	0	0.00	0.00	3	4	48.00	0.00	1098.01	1098.19	1	0.18
18901	18	1	0	0	4	0.019	0.000	-3.429	1.619	0	0.026	0.001	0	0.00	0.00	3	4	48.00	0.00	1098.22	1099.13	10	0.91
18901	18	1	0	0	4	0.010	0.000	-2.571	1.557	0	0.005	0.000	0	0.00	0.00	3	4	46.00	4.00	1099.16	1101.19	1	2.03

18901	18	1	0	0	4	0.013	0.000	-3.273	1.418	0	-0.001	0.000	0	0.00	0.00	3	4	45.91	4.09	1101.22	1102.25	10	1.03
18901	18	1	0	0	4	0.016	0.000	-3.000	2.000	0	-0.007	0.000	7	-0.05	0.23	3	4	45.29	3.57	1102.28	1103.19	1	0.91
18901	18	1	0	0	4	0.011	0.000	-3.000	1.500	0	0.013	0.001	0	0.00	0.00	3	4	44.11	0.11	1103.22	1104.19	10	0.97
18901	18	1	0	0	4	0.002	0.000	-1.750	0.917	0	-0.005	0.000	0	0.00	0.00	3	4	44.00	0.00	1104.22	1105.04	1	0.82
18901	18	1	0	0	4	0.012	0.000	-3.000	1.778	0	0.018	0.000	0	0.00	0.00	3	4	44.00	0.00	1105.07	1106.07	10	1.00
18901	18	1	0	0	4	0.020	0.000	-3.500	0.500	0	0.035	0.000	0	0.00	0.00	3	4	44.00	0.00	1106.10	1106.13	1	0.03
18901	18	1	0	0	4	0.016	0.000	-2.556	1.278	0	0.036	0.001	0	0.00	0.00	3	4	44.00	0.00	1106.16	1107.13	10	0.97
18901	18	1	0	0	4	0.010	0.000	-3.500	5.667	0	0.015	0.000	0	0.00	0.00	3	4	44.00	0.00	1107.16	1107.28	1	0.12
18901	18	1	0	0	4	0.014	0.000	-4.182	2.164	0	0.046	0.000	0	0.00	0.00	3	4	46.00	4.00	1108.01	1109.04	10	1.03
18901	18	1	0	0	4	0.003	0.000	-3.333	1.333	0	0.070	0.000	0	0.00	0.00	3	4	44.67	1.33	1109.07	1109.16	1	0.09
18901	18	1	0	0	4	0.009	0.000	-5.000	4.267	0	0.022	0.002	0	0.00	0.00	3	4	47.63	1.18	1109.19	1111.07	10	1.88
18901	18	1	0	0	4	0.010	0.000	-6.750	2.917	0	0.032	0.000	0	0.00	0.00	3	4	48.00	0.00	1111.10	1111.22	1	0.12
18901	18	1	0	0	4	0.015	0.000	-5.455	2.073	0	0.009	0.001	0	0.00	0.00	3	4	48.00	0.00	1111.25	1112.28	10	1.03
18901	18	1	0	0	4	0.012	0.000	-4.750	6.205	0	-0.007	0.001	0	0.00	0.00	3	4	47.83	0.33	1113.01	1114.07	1	1.06
18901	18	1	0	0	4	0.007	0.000	-4.333	6.750	0	-0.019	0.001	8	-0.04	0.27	3	4	47.78	0.44	1114.10	1115.07	10	0.97
18901	18	1	0	0	4	0.000	0.000	-5.000	9.500	0	0.000	0.000	4	-0.08	0.13	3	4	48.00	0.00	1115.10	1115.25	1	0.15
18901	18	1	0	0	4	0.005	0.000	-4.250	7.071	0	-0.049	0.003	0	0.00	0.00	3	4	46.25	3.93	1115.28	1116.22	10	0.94
18901	18	1	0	0	4	0.021	0.001	-5.400	18.114	0	-0.096	0.008	13	-0.11	0.43	3	4	40.87	18.27	1116.25	1118.10	1	1.85
18901	18	1	0	0	4	0.013	0.000	-4.500	6.333	0	-0.120	0.000	4	-0.12	0.13	3	4	41.75	4.25	1118.13	1118.25	3	0.12
18901	18	1	0	0	4	0.042	0.000	-7.333	19.067	0	-0.057	0.005	6	-0.13	0.20	3	4	39.50	3.90	1118.28	1119.16	4	0.88
18901	18	1	0	0	4	0.055	0.000	-10.250	6.917	0	-0.038	0.005	4	-0.14	0.13	3	4	39.25	2.25	1119.19	1120.01	8	0.82
18901	18	1	0	0	4	0.052	0.000	-10.750	1.583	0	0.000	0.001	0	0.00	0.00	3	4	37.75	4.25	1120.04	1120.16	1	0.12
18901	18	1	0	0	4	0.010	0.002	-2.667	46.500	0	-0.103	0.014	0	0.00	0.00	3	4	34.44	10.03	1120.19	1121.16	8	0.97
18901	18	1	0	0	4	-0.001	0.001	-2.824	21.779	0	-0.045	0.016	14	-0.29	0.47	3	4	30.06	10.81	1121.19	1123.10	1	1.91
18901	18	1	0	0	4	0.009	0.000	-3.158	22.363	1	0.019	0.003	6	-0.11	0.20	3	4	28.16	0.47	1123.13	1125.10	10	1.97
18901	18	1	0	0	4	0.016	0.000	-4.087	12.083	0	0.064	0.003	6	-0.04	0.20	3	4	29.57	6.26	1125.13	1127.22	1	2.09
18901	18	1	0	0	4	0.007	0.000	-0.333	0.333	0	-0.010	0.000	3	-0.02	0.10	3	4	28.00	0.00	1127.25	1128.04	4	0.79
18901	18	1	0	0	4	0.007	0.000	0.333	0.333	0	-0.003	0.000	3	-0.02	0.10	3	4	28.00	0.00	1128.07	1128.16	1	0.09
18901	18	1	0	0	4	0.014	0.000	-2.400	18.300	0	0.026	0.001	0	0.00	0.00	3	4	28.00	0.00	1128.19	1129.04	4	0.85
18901	18	1	0	0	4	0.015	0.000	-3.700	8.326	0	0.090	0.001	0	0.00	0.00	3	4	32.40	12.04	1129.07	1131.07	1	2.00
18901	18	1	0	0	4	0.013	0.000	-3.000	2.444	0	0.105	0.001	0	0.00	0.00	3	4	32.90	6.77	1131.10	1132.10	10	1.00
18901	18	1	0	0	4	0.003	0.000	-2.667	4.333	0	0.107	0.000	0	0.00	0.00	3	4	32.00	0.00	1132.13	1132.22	1	0.09
18901	18	1	0	0	4	0.007	0.000	-2.222	1.944	0	0.089	0.001	0	0.00	0.00	3	4	34.89	3.11	1132.25	1133.22	10	0.97
18901	18	1	0	0	4	0.005	0.000	-3.625	2.554	0	0.068	0.000	0	0.00	0.00	3	4	35.88	0.13	1133.25	1134.19	1	0.94
18901	18	1	0	0	4	0.011	0.000	-3.778	5.124	0	0.038	0.001	0	0.00	0.00	3	4	38.56	3.67	1134.22	1136.16	10	1.94
18901	18	1	0	0	4	0.024	0.000	-6.200	1.700	0	0.058	0.000	0	0.00	0.00	3	4	38.80	3.20	1136.19	1137.04	2	0.85

18901	18	1	0	0	4	0.005	0.000	-3.500	7.192	0	0.023	0.002	0	0.00	0.00	3	4	39.71	0.68	1137.07	1138.19	1	1.12
18901	18	1	0	0	4	0.008	0.000	-4.444	10.967	0	0.015	0.002	0	0.00	0.00	3	4	38.39	3.43	1138.22	1140.16	10	1.94
18901	18	1	0	0	4	-0.008	0.000	-1.200	0.200	0	-0.028	0.001	4	-0.02	0.13	3	4	39.60	0.80	1140.19	1141.04	1	0.85
18901	18	1	0	0	4	0.004	0.000	-4.857	8.593	1	0.018	0.002	10	-0.06	0.33	3	4	37.36	3.17	1141.07	1142.19	10	1.12
18901	18	1	0	0	4	0.020	0.000	-7.000	8.500	0	0.024	0.001	0	0.00	0.00	3	4	36.00	0.00	1142.22	1143.07	1	0.85
18901	18	1	0	0	4	0.018	0.000	-7.000	2.400	0	0.053	0.001	0	0.00	0.00	3	4	36.83	1.77	1143.10	1143.28	11	0.18
18901	18	1	0	0	4	0.004	0.001	-4.429	14.725	0	0.048	0.001	0	0.00	0.00	3	4	36.57	1.34	1144.01	1145.13	10	1.12
18901	18	1	0	0	4	0.011	0.000	-5.125	4.125	0	0.026	0.000	0	0.00	0.00	3	4	36.00	0.00	1145.16	1146.10	1	0.94
18901	18	1	0	0	4	0.010	0.000	-3.500	5.667	0	0.013	0.000	0	0.00	0.00	3	4	36.00	0.00	1146.13	1146.25	4	0.12
18901	18	1	0	0	4	0.023	0.000	-5.250	8.917	0	0.020	0.000	0	0.00	0.00	3	4	36.00	0.00	1146.28	1147.10	1	0.82
18901	18	1	0	0	4	0.008	0.002	-2.692	24.564	1	0.102	0.003	0	0.00	0.00	3	4	40.00	13.17	1147.13	1148.22	7	1.09
18901	18	1	0	0	4	-0.047	0.001	3.750	1.583	0	0.115	0.001	0	0.00	0.00	3	4	38.50	3.67	1148.25	1149.07	1	0.82
19041	75	3	0	0	3	-0.067	0.003	22.500	271.500	0	0.032	0.000	0	0.00	0.00	2	3	24.00	0.00	1158.01	1158.19	11	0.18
19041	75	3	0	0	3	-0.028	0.004	8.167	285.367	0	0.020	0.000	0	0.00	0.00	2	3	24.00	0.00	1158.22	1159.10	1	0.88
19041	75	3	0	0	3	0.049	0.002	-9.000	155.750	0	0.017	0.000	0	0.00	0.00	2	3	24.00	0.00	1159.13	1160.10	2	0.97
19041	75	3	0	0	3	0.094	0.001	-23.500	97.500	0	0.004	0.000	0	0.00	0.00	2	3	24.00	0.00	1160.13	1161.25	10	1.12
19041	75	3	0	0	3	0.082	0.001	-17.077	115.194	0	0.035	0.001	0	0.00	0.00	2	3	24.54	1.78	1161.28	1164.16	1	2.88
19041	75	3	0	0	3	0.125	0.000	-31.000	2.000	0	0.005	0.000	0	0.00	0.00	2	3	24.00	0.00	1164.19	1164.25	4	0.06
19041	75	3	0	0	3	0.097	0.001	-23.286	46.238	0	0.013	0.000	0	0.00	0.00	2	3	24.00	0.00	1164.28	1165.19	1	0.91
19041	75	3	0	0	3	0.052	0.001	-7.192	61.122	0	0.041	0.001	0	0.00	0.00	2	3	26.92	10.39	1165.22	1168.10	2	2.88
19041	75	3	0	0	3	0.052	0.000	-4.833	5.061	0	0.068	0.000	0	0.00	0.00	2	3	25.92	4.08	1168.13	1169.19	1	1.06
19041	75	3	0	0	3	0.051	0.000	-5.100	0.989	0	0.067	0.000	0	0.00	0.00	2	3	26.90	3.21	1169.22	1170.22	2	1.00
19041	75	3	0	0	3	0.055	0.000	-4.667	1.467	0	0.073	0.000	0	0.00	0.00	2	3	27.83	0.17	1170.25	1171.13	11	0.88
19041	75	3	0	0	3	0.013	0.002	4.111	102.693	0	0.018	0.001	0	0.00	0.00	2	3	30.22	3.83	1171.16	1173.10	1	1.94
19041	75	3	0	0	3	0.023	0.000	-0.667	5.867	0	0.015	0.001	0	0.00	0.00	2	3	31.50	1.50	1173.13	1174.01	4	0.88
19041	75	3	0	0	3	-0.008	0.001	8.273	91.018	0	-0.008	0.000	0	0.00	0.00	2	3	31.36	2.06	1174.04	1175.07	1	1.03
19041	75	3	0	0	3	-0.038	0.003	14.300	113.122	0	-0.006	0.001	0	0.00	0.00	2	3	30.50	3.83	1175.10	1176.10	2	1.00
19041	75	3	0	0	3	-0.053	0.002	19.286	78.571	0	-0.016	0.000	6	-0.03	0.20	2	3	30.00	4.00	1176.13	1177.04	1	0.91
19041	75	3	0	0	3	-0.086	0.002	26.143	32.143	0	-0.010	0.001	7	-0.05	0.23	2	3	28.86	2.48	1177.07	1177.28	10	0.21
19041	75	3	0	0	3	-0.108	0.000	29.667	7.067	0	0.003	0.000	3	-0.05	0.10	2	3	28.00	0.00	1178.01	1178.19	1	0.18
19041	75	3	0	0	3	-0.116	0.001	29.364	12.055	0	0.045	0.001	0	0.00	0.00	2	3	28.64	2.06	1178.22	1179.25	2	1.03
19041	75	3	0	0	3	-0.127	0.000	31.167	6.967	0	0.053	0.002	0	0.00	0.00	2	3	28.00	0.00	1179.28	1180.16	3	0.88
19041	75	3	0	0	3	-0.055	0.006	13.929	311.918	0	0.039	0.001	0	0.00	0.00	2	3	30.71	3.45	1180.19	1182.01	1	1.82
19041	75	3	0	0	3	-0.022	0.007	6.455	335.473	0	0.034	0.001	0	0.00	0.00	2	3	31.73	0.82	1182.04	1183.07	11	1.03
19041	75	3	0	0	3	0.095	0.009	-20.867	356.947	1	0.025	0.001	0	0.00	0.00	2	3	32.00	0.00	1183.10	1186.10	1	3.00
19041	75	3	0	0	3	0.138	0.004	-28.778	115.944	0	-0.001	0.000	0	0.00	0.00	2	3	32.00	0.00	1186.13	1187.10	10	0.97

19041	75	3	0	0	3	0.066	0.004	-14.705	196.312	0	0.031	0.001	0	0.00	0.00	2	3	33.98	6.22	1187.13	1193.16	1	6.03
19041	75	3	0	0	3	0.028	0.000	-8.818	1.764	0	0.025	0.001	0	0.00	0.00	2	3	33.73	3.62	1193.19	1194.22	3	1.03
19041	75	3	0	0	3	0.047	0.001	-11.600	14.674	0	0.008	0.001	0	0.00	0.00	2	3	32.95	2.68	1194.25	1196.25	1	2.00
19041	75	3	0	0	3	0.057	0.000	-14.571	15.952	0	-0.003	0.000	0	0.00	0.00	2	3	32.43	1.29	1196.28	1197.19	10	0.91
19041	75	3	0	0	3	0.052	0.001	-12.562	17.329	0	0.026	0.001	0	0.00	0.00	2	3	32.63	1.98	1197.22	1199.10	1	1.88
19041	75	3	0	0	3	0.058	0.001	-12.500	10.278	0	0.026	0.001	0	0.00	0.00	2	3	32.20	0.40	1199.13	1200.13	10	1.00
19041	75	3	0	0	3	0.026	0.000	-5.448	14.042	0	0.045	0.001	0	0.00	0.00	2	3	35.86	6.55	1200.16	1203.13	1	2.97
19041	75	3	0	0	3	0.026	0.000	-4.833	4.697	0	0.038	0.001	0	0.00	0.00	2	3	36.00	0.00	1203.16	1204.22	1	1.06
19041	75	3	0	0	3	0.021	0.000	-3.800	4.400	0	0.033	0.000	0	0.00	0.00	2	3	36.00	0.00	1204.25	1205.25	2	1.00
19041	75	3	0	0	3	0.015	0.000	-2.471	4.015	0	0.038	0.001	0	0.00	0.00	2	3	37.59	3.88	1205.28	1207.19	10	1.91
19041	75	3	0	0	3	0.008	0.000	-4.143	11.534	0	-0.102	0.046	0	0.00	0.00	2	3	35.57	51.00	1207.22	1210.16	1	2.94
19041	75	3	0	0	3	0.005	0.000	-4.000	12.476	1	-0.174	0.051	0	0.00	0.00	2	3	33.64	99.77	1210.19	1212.25	11	2.06
19041	75	3	0	0	3	0.009	0.000	-2.286	1.571	0	-0.020	0.002	0	0.00	0.00	2	3	40.00	0.00	1212.28	1213.19	2	0.91
19041	75	3	0	0	3	0.008	0.000	-3.240	16.273	0	-0.180	0.046	9	-0.32	0.30	2	3	17.52	290.01	1213.22	1216.07	1	2.85
19041	75	3	0	0	3	0.006	0.000	-5.167	20.152	0	-0.345	0.036	12	-0.49	0.40	2	3	15.08	157.90	1216.10	1217.16	11	1.06
19041	75	3	0	0	3	0.002	0.000	-3.750	19.643	0	-0.321	0.054	8	-0.51	0.27	2	3	10.00	67.71	1217.19	1218.13	1	0.94
19041	75	3	0	0	3	0.007	0.000	-0.727	8.618	0	-0.134	0.044	11	-0.48	0.37	2	3	3.27	29.02	1218.16	1219.19	2	1.03
19041	75	3	0	0	3	-0.067	0.003	22.500	271.500	0	0.032	0.000	0	0.00	0.00	2	3	24.00	0.00	1158.01	1158.19	11	0.18
19041	75	3	0	0	3	-0.028	0.004	8.167	285.367	0	0.020	0.000	0	0.00	0.00	2	3	24.00	0.00	1158.22	1159.10	1	0.88
19041	75	3	0	0	3	0.049	0.002	-9.000	155.750	0	0.017	0.000	0	0.00	0.00	2	3	24.00	0.00	1159.13	1160.10	2	0.97
19041	75	3	0	0	3	0.094	0.001	-23.500	97.500	0	0.004	0.000	0	0.00	0.00	2	3	24.00	0.00	1160.13	1161.25	10	1.12
19041	75	3	0	0	3	0.082	0.001	-17.077	115.194	0	0.035	0.001	0	0.00	0.00	2	3	24.54	1.78	1161.28	1164.16	1	2.88
19041	75	3	0	0	3	0.125	0.000	-31.000	2.000	0	0.005	0.000	0	0.00	0.00	2	3	24.00	0.00	1164.19	1164.25	4	0.06
19041	75	3	0	0	3	0.097	0.001	-23.286	46.238	0	0.013	0.000	0	0.00	0.00	2	3	24.00	0.00	1164.28	1165.19	1	0.91
19041	75	3	0	0	3	0.052	0.001	-7.192	61.122	0	0.041	0.001	0	0.00	0.00	2	3	26.92	10.39	1165.22	1168.10	2	2.88
19041	75	3	0	0	3	0.052	0.000	-4.833	5.061	0	0.068	0.000	0	0.00	0.00	2	3	25.92	4.08	1168.13	1169.19	1	1.06
19041	75	3	0	0	3	0.051	0.000	-5.100	0.989	0	0.067	0.000	0	0.00	0.00	2	3	26.90	3.21	1169.22	1170.22	2	1.00
19041	75	3	0	0	3	0.055	0.000	-4.667	1.467	0	0.073	0.000	0	0.00	0.00	2	3	27.83	0.17	1170.25	1171.13	11	0.88
19041	75	3	0	0	3	0.013	0.002	4.111	102.693	0	0.018	0.001	0	0.00	0.00	2	3	30.22	3.83	1171.16	1173.10	1	1.94
19041	75	3	0	0	3	0.023	0.000	-0.667	5.867	0	0.015	0.001	0	0.00	0.00	2	3	31.50	1.50	1173.13	1174.01	4	0.88
19041	75	3	0	0	3	-0.008	0.001	8.273	91.018	0	-0.008	0.000	0	0.00	0.00	2	3	31.36	2.06	1174.04	1175.07	1	1.03
19041	75	3	0	0	3	-0.038	0.003	14.300	113.122	0	-0.006	0.001	0	0.00	0.00	2	3	30.50	3.83	1175.10	1176.10	2	1.00
19041	75	3	0	0	3	-0.053	0.002	19.286	78.571	0	-0.016	0.000	6	-0.03	0.20	2	3	30.00	4.00	1176.13	1177.04	1	0.91
19041	75	3	0	0	3	-0.086	0.002	26.143	32.143	0	-0.010	0.001	7	-0.05	0.23	2	3	28.86	2.48	1177.07	1177.28	10	0.21
19041	75	3	0	0	3	-0.108	0.000	29.667	7.067	0	0.003	0.000	3	-0.05	0.10	2	3	28.00	0.00	1178.01	1178.19	1	0.18
19041	75	3	0	0	3	-0.116	0.001	29.364	12.055	0	0.045	0.001	0	0.00	0.00	2	3	28.64	2.06	1178.22	1179.25	2	1.03

19041	75	3	0	0	3	-0.127	0.000	31.167	6.967	0	0.053	0.002	0	0.00	0.00	2	3	28.00	0.00	1179.28	1180.16	3	0.88
19041	75	3	0	0	3	-0.055	0.006	13.929	311.918	0	0.039	0.001	0	0.00	0.00	2	3	30.71	3.45	1180.19	1182.01	1	1.82
19041	75	3	0	0	3	-0.022	0.007	6.455	335.473	0	0.034	0.001	0	0.00	0.00	2	3	31.73	0.82	1182.04	1183.07	11	1.03
19041	75	3	0	0	3	0.095	0.009	-20.867	356.947	1	0.025	0.001	0	0.00	0.00	2	3	32.00	0.00	1183.10	1186.10	1	3.00
19041	75	3	0	0	3	0.138	0.004	-28.778	115.944	0	-0.001	0.000	0	0.00	0.00	2	3	32.00	0.00	1186.13	1187.10	10	0.97
19041	75	3	0	0	3	0.066	0.004	-14.705	196.312	0	0.031	0.001	0	0.00	0.00	2	3	33.98	6.22	1187.13	1193.16	1	6.03
19041	75	3	0	0	3	0.028	0.000	-8.818	1.764	0	0.025	0.001	0	0.00	0.00	2	3	33.73	3.62	1193.19	1194.22	3	1.03
19041	75	3	0	0	3	0.047	0.001	-11.600	14.674	0	0.008	0.001	0	0.00	0.00	2	3	32.95	2.68	1194.25	1196.25	1	2.00
19041	75	3	0	0	3	0.057	0.000	-14.571	15.952	0	-0.003	0.000	0	0.00	0.00	2	3	32.43	1.29	1196.28	1197.19	10	0.91
19041	75	3	0	0	3	0.052	0.001	-12.562	17.329	0	0.026	0.001	0	0.00	0.00	2	3	32.63	1.98	1197.22	1199.10	1	1.88
19041	75	3	0	0	3	0.058	0.001	-12.500	10.278	0	0.026	0.001	0	0.00	0.00	2	3	32.20	0.40	1199.13	1200.13	10	1.00
19041	75	3	0	0	3	0.026	0.000	-5.448	14.042	0	0.045	0.001	0	0.00	0.00	2	3	35.86	6.55	1200.16	1203.13	1	2.97
19041	75	3	0	0	3	0.026	0.000	-4.833	4.697	0	0.038	0.001	0	0.00	0.00	2	3	36.00	0.00	1203.16	1204.22	1	1.06
19041	75	3	0	0	3	0.021	0.000	-3.800	4.400	0	0.033	0.000	0	0.00	0.00	2	3	36.00	0.00	1204.25	1205.25	2	1.00
19041	75	3	0	0	3	0.015	0.000	-2.471	4.015	0	0.038	0.001	0	0.00	0.00	2	3	37.59	3.88	1205.28	1207.19	10	1.91
19041	75	3	0	0	3	0.008	0.000	-4.143	11.534	0	-0.102	0.046	0	0.00	0.00	2	3	35.57	51.00	1207.22	1210.16	1	2.94
19041	75	3	0	0	3	0.005	0.000	-4.000	12.476	1	-0.174	0.051	0	0.00	0.00	2	3	33.64	99.77	1210.19	1212.25	11	2.06
19041	75	3	0	0	3	0.009	0.000	-2.286	1.571	0	-0.020	0.002	0	0.00	0.00	2	3	40.00	0.00	1212.28	1213.19	2	0.91
19041	75	3	0	0	3	0.008	0.000	-3.240	16.273	0	-0.180	0.046	9	-0.32	0.30	2	3	17.52	290.01	1213.22	1216.07	1	2.85
19041	75	3	0	0	3	0.006	0.000	-5.167	20.152	0	-0.345	0.036	12	-0.49	0.40	2	3	15.08	157.90	1216.10	1217.16	11	1.06
19041	75	3	0	0	3	0.002	0.000	-3.750	19.643	0	-0.321	0.054	8	-0.51	0.27	2	3	10.00	67.71	1217.19	1218.13	1	0.94
19041	75	3	0	0	3	0.007	0.000	-0.727	8.618	0	-0.134	0.044	11	-0.48	0.37	2	3	3.27	29.02	1218.16	1219.19	2	1.03
19041	75	3	0	0	3	-0.067	0.003	22.500	271.500	0	0.032	0.000	0	0.00	0.00	2	3	24.00	0.00	1158.01	1158.19	11	0.18
19041	75	3	0	0	3	-0.028	0.004	8.167	285.367	0	0.020	0.000	0	0.00	0.00	2	3	24.00	0.00	1158.22	1159.10	1	0.88
19041	75	3	0	0	3	0.049	0.002	-9.000	155.750	0	0.017	0.000	0	0.00	0.00	2	3	24.00	0.00	1159.13	1160.10	2	0.97
19041	75	3	0	0	3	0.094	0.001	-23.500	97.500	0	0.004	0.000	0	0.00	0.00	2	3	24.00	0.00	1160.13	1161.25	10	1.12
19041	75	3	0	0	3	0.082	0.001	-17.077	115.194	0	0.035	0.001	0	0.00	0.00	2	3	24.54	1.78	1161.28	1164.16	1	2.88
19041	75	3	0	0	3	0.125	0.000	-31.000	2.000	0	0.005	0.000	0	0.00	0.00	2	3	24.00	0.00	1164.19	1164.25	4	0.06
19041	75	3	0	0	3	0.097	0.001	-23.286	46.238	0	0.013	0.000	0	0.00	0.00	2	3	24.00	0.00	1164.28	1165.19	1	0.91
19041	75	3	0	0	3	0.052	0.001	-7.192	61.122	0	0.041	0.001	0	0.00	0.00	2	3	26.92	10.39	1165.22	1168.10	2	2.88
19041	75	3	0	0	3	0.052	0.000	-4.833	5.061	0	0.068	0.000	0	0.00	0.00	2	3	25.92	4.08	1168.13	1169.19	1	1.06
19041	75	3	0	0	3	0.051	0.000	-5.100	0.989	0	0.067	0.000	0	0.00	0.00	2	3	26.90	3.21	1169.22	1170.22	2	1.00
19041	75	3	0	0	3	0.055	0.000	-4.667	1.467	0	0.073	0.000	0	0.00	0.00	2	3	27.83	0.17	1170.25	1171.13	11	0.88
19041	75	3	0	0	3	0.013	0.002	4.111	102.693	0	0.018	0.001	0	0.00	0.00	2	3	30.22	3.83	1171.16	1173.10	1	1.94
19041	75	3	0	0	3	0.023	0.000	-0.667	5.867	0	0.015	0.001	0	0.00	0.00	2	3	31.50	1.50	1173.13	1174.01	4	0.88
19041	75	3	0	0	3	-0.008	0.001	8.273	91.018	0	-0.008	0.000	0	0.00	0.00	2	3	31.36	2.06	1174.04	1175.07	1	1.03

19041	75	3	0	3	-0.038	0.003	14.300	113.122	0	-0.006	0.001	0	0.00	0.00	2	3	30.50	3.83	1175.10	1176.10	2	1.00
19041	75	3	0	3	-0.053	0.002	19.286	78.571	0	-0.016	0.000	6	-0.03	0.20	2	3	30.00	4.00	1176.13	1177.04	1	0.91
19041	75	3	0	3	-0.086	0.002	26.143	32.143	0	-0.010	0.001	7	-0.05	0.23	2	3	28.86	2.48	1177.07	1177.28	10	0.21
19041	75	3	0	3	-0.108	0.000	29.667	7.067	0	0.003	0.000	3	-0.05	0.10	2	3	28.00	0.00	1178.01	1178.19	1	0.18
19041	75	3	0	3	-0.116	0.001	29.364	12.055	0	0.045	0.001	0	0.00	0.00	2	3	28.64	2.06	1178.22	1179.25	2	1.03
19041	75	3	0	3	-0.127	0.000	31.167	6.967	0	0.053	0.002	0	0.00	0.00	2	3	28.00	0.00	1179.28	1180.16	3	0.88
19041	75	3	0	3	-0.055	0.006	13.929	311.918	0	0.039	0.001	0	0.00	0.00	2	3	30.71	3.45	1180.19	1182.01	1	1.82
19041	75	3	0	3	-0.022	0.007	6.455	335.473	0	0.034	0.001	0	0.00	0.00	2	3	31.73	0.82	1182.04	1183.07	11	1.03
19041	75	3	0	3	0.095	0.009	-20.867	356.947	1	0.025	0.001	0	0.00	0.00	2	3	32.00	0.00	1183.10	1186.10	1	3.00
19041	75	3	0	3	0.138	0.004	-28.778	115.944	0	-0.001	0.000	0	0.00	0.00	2	3	32.00	0.00	1186.13	1187.10	10	0.97
19041	75	3	0	3	0.066	0.004	-14.705	196.312	0	0.031	0.001	0	0.00	0.00	2	3	33.98	6.22	1187.13	1193.16	1	6.03
19041	75	3	0	3	0.028	0.000	-8.818	1.764	0	0.025	0.001	0	0.00	0.00	2	3	33.73	3.62	1193.19	1194.22	3	1.03
19041	75	3	0	3	0.047	0.001	-11.600	14.674	0	0.008	0.001	0	0.00	0.00	2	3	32.95	2.68	1194.25	1196.25	1	2.00
19041	75	3	0	3	0.057	0.000	-14.571	15.952	0	-0.003	0.000	0	0.00	0.00	2	3	32.43	1.29	1196.28	1197.19	10	0.91
19041	75	3	0	3	0.052	0.001	-12.562	17.329	0	0.026	0.001	0	0.00	0.00	2	3	32.63	1.98	1197.22	1199.10	1	1.88
19041	75	3	0	3	0.058	0.001	-12.500	10.278	0	0.026	0.001	0	0.00	0.00	2	3	32.20	0.40	1199.13	1200.13	10	1.00
19041	75	3	0	3	0.026	0.000	-5.448	14.042	0	0.045	0.001	0	0.00	0.00	2	3	35.86	6.55	1200.16	1203.13	1	2.97
19041	75	3	0	3	0.026	0.000	-4.833	4.697	0	0.038	0.001	0	0.00	0.00	2	3	36.00	0.00	1203.16	1204.22	1	1.06
19041	75	3	0	3	0.021	0.000	-3.800	4.400	0	0.033	0.000	0	0.00	0.00	2	3	36.00	0.00	1204.25	1205.25	2	1.00
19041	75	3	0	3	0.015	0.000	-2.471	4.015	0	0.038	0.001	0	0.00	0.00	2	3	37.59	3.88	1205.28	1207.19	10	1.91
19041	75	3	0	3	0.008	0.000	-4.143	11.534	0	-0.102	0.046	0	0.00	0.00	2	3	35.57	51.00	1207.22	1210.16	1	2.94
19041	75	3	0	3	0.005	0.000	-4.000	12.476	1	-0.174	0.051	0	0.00	0.00	2	3	33.64	99.77	1210.19	1212.25	11	2.06
19041	75	3	0	3	0.009	0.000	-2.286	1.571	0	-0.020	0.002	0	0.00	0.00	2	3	40.00	0.00	1212.28	1213.19	2	0.91
19041	75	3	0	3	0.008	0.000	-3.240	16.273	0	-0.180	0.046	9	-0.32	0.30	2	3	17.52	290.01	1213.22	1216.07	1	2.85
19041	75	3	0	3	0.006	0.000	-5.167	20.152	0	-0.345	0.036	12	-0.49	0.40	2	3	15.08	157.90	1216.10	1217.16	11	1.06
19041	75	3	0	3	0.002	0.000	-3.750	19.643	0	-0.321	0.054	8	-0.51	0.27	2	3	10.00	67.71	1217.19	1218.13	1	0.94
19041	75	3	0	3	0.007	0.000	-0.727	8.618	0	-0.134	0.044	11	-0.48	0.37	2	3	3.27	29.02	1218.16	1219.19	2	1.03
19021	70	3	1	6	-0.011	0.000	0.455	0.673	0	0.031	0.000	0	0.00	0.00	1	3	40.00	0.00	2032.13	2033.16	10	1.03
19021	70	3	1	6	-0.011	0.000	0.250	0.386	0	0.022	0.000	0	0.00	0.00	1	3	40.00	0.00	2033.19	2034.25	1	1.06
19021	70	3	1	6	-0.010	0.000	0.167	0.333	0	0.014	0.000	0	0.00	0.00	1	3	40.00	0.00	2034.28	2036.04	10	1.76
19021	70	3	1	6	-0.018	0.000	-1.781	27.331	1	-0.022	0.008	0	0.00	0.00	1	3	24.91	259.73	2036.07	2045.25	1	9.18
19021	70	3	1	6	-0.034	0.001	2.455	16.473	0	-0.005	0.000	9	-0.02	0.30	1	3	36.82	2.56	2045.28	2047.01	3	1.73
19021	70	3	1	6	-0.018	0.000	-4.110	32.568	2	-0.028	0.010	28	-0.05	0.93	1	3	15.87	247.67	2047.04	2055.10	1	8.06
19021	70	3	1	6	-0.003	0.000	-4.429	10.286	0	0.006	0.000	0	0.00	0.00	1	3	32.00	0.00	2055.13	2056.04	11	0.91
19021	70	3	1	6	-0.005	0.000	-4.958	11.607	0	-0.123	0.018	0	0.00	0.00	1	3	22.25	122.89	2056.07	2058.19	1	2.12
19021	70	3	1	6	-0.002	0.001	-3.909	20.491	0	-0.147	0.013	9	-0.05	0.30	1	3	26.09	18.29	2058.22	2059.25	2	1.03

19021	70	3	1	0	6	-0.017	0.000	-4.067	14.638	1	-0.195	0.017	15	-0.23	0.50	1	3	16.00	110.43	2059.28	2061.13	1	1.85
19021	70	3	1	0	6	-0.026	0.000	-0.600	6.300	0	-0.284	0.001	5	-0.28	0.17	1	3	20.00	11.50	2061.16	2062.01	3	0.85
19021	70	3	1	0	6	-0.026	0.000	-2.600	4.800	0	-0.304	0.001	5	-0.29	0.17	1	3	16.40	18.80	2062.04	2062.19	1	0.15
19021	70	3	1	0	6	-0.028	0.000	-4.800	3.200	0	-0.308	0.001	5	-0.33	0.17	1	3	12.00	29.00	2062.22	2063.07	2	0.85
19021	70	3	1	0	6	-0.007	0.001	-4.750	36.618	0	0.033	0.004	213	-0.33	7.10	1	3	23.20	221.49	2063.10	2085.10	0	22.00
19021	70	3	1	0	6	-0.019	0.001	-3.965	95.392	0	0.092	0.004	0	0.00	0.00	1	3	23.58	95.93	2085.13	2091.04	1	5.91
19021	70	3	1	0	6	-0.014	0.001	-6.143	58.476	0	0.114	0.000	0	0.00	0.00	1	3	21.29	3.57	2091.07	2091.28	10	0.21
19021	70	3	1	0	6	-0.023	0.001	-4.000	67.600	0	0.108	0.000	0	0.00	0.00	1	3	22.17	4.17	2092.01	2092.19	1	0.18
19021	70	3	1	0	6	-0.022	0.001	-2.333	8.667	0	0.108	0.000	0	0.00	0.00	1	3	23.17	2.57	2092.22	2093.10	10	0.88
19021	70	3	1	0	6	-0.012	0.001	-3.444	6.278	0	0.080	0.000	0	0.00	0.00	1	3	25.56	3.53	2093.13	2094.10	1	0.97
19021	70	3	1	0	6	-0.009	0.001	-2.182	15.564	0	0.069	0.000	0	0.00	0.00	1	3	26.91	2.89	2094.13	2095.16	10	1.03
19021	70	3	1	0	6	0.006	0.000	-4.800	8.700	0	0.062	0.000	0	0.00	0.00	1	3	27.80	0.20	2095.19	2096.04	1	0.85
19021	70	3	1	0	6	-0.036	0.002	2.111	49.111	0	0.059	0.000	0	0.00	0.00	1	3	28.00	0.00	2096.07	2097.04	10	0.97
19021	70	3	1	0	6	-0.005	0.001	-2.063	34.957	1	0.024	0.000	0	0.00	0.00	1	3	34.98	12.72	2097.07	2105.04	1	7.97
19021	70	3	1	0	6	-0.003	0.000	-0.714	1.238	0	0.033	0.000	0	0.00	0.00	1	3	33.57	3.95	2105.07	2105.28	10	0.21
19021	70	3	1	0	6	0.001	0.000	-2.789	12.333	0	0.019	0.000	0	0.00	0.00	1	3	36.97	4.78	2106.01	2109.25	1	3.24
19021	70	3	1	0	6	-0.014	0.000	-0.800	0.200	0	0.002	0.000	0	0.00	0.00	1	3	36.00	0.00	2109.28	2110.13	2	0.85
19021	70	3	1	0	6	-0.007	0.000	-1.154	1.641	0	0.021	0.000	0	0.00	0.00	1	3	36.00	0.00	2110.16	2111.25	1	1.09
19021	70	3	1	0	6	-0.003	0.000	-1.429	0.952	0	0.027	0.000	0	0.00	0.00	1	3	36.00	0.00	2111.28	2112.19	2	0.91
11711	69	3	1	0	3	0.064	0.002	-147.800	5540.700	0	0.114	0.001	0	0.00	0.00	1	3	7.20	3.20	290.16	291.01	3	0.85
11711	69	3	1	0	3	0.116	0.003	-203.800	2601.200	0	0.108	0.000	0	0.00	0.00	1	3	8.20	0.20	291.04	291.19	2	0.15
11711	69	3	1	0	3	0.060	0.006	-59.645	8409.038	0	-0.012	0.038	0	0.00	0.00	1	3	15.58	40.12	291.22	294.25	3	3.03
11711	69	3	1	0	3	0.014	0.001	-5.319	147.103	2	-0.008	0.016	11	-0.40	0.37	1	3	5.80	81.19	294.28	301.25	1	6.97
11711	69	3	1	0	3	0.004	0.000	1.500	1.500	0	-0.114	0.044	14	-0.48	0.47	1	3	3.43	33.65	301.28	303.10	1	1.82
11711	69	3	1	0	3	0.007	0.000	2.000	0.000	0	-0.057	0.013	3	-0.18	0.10	1	3	1.33	5.33	303.13	303.22	3	0.09
11711	69	3	1	0	3	-0.007	0.002	5.030	1567.511	2	0.042	0.006	257	-0.03	8.57	1	3	20.64	234.77	303.25	330.19	0	26.94
11711	69	3	1	0	3	0.064	0.002	-147.800	5540.700	0	0.114	0.001	0	0.00	0.00	1	3	7.20	3.20	290.16	291.01	3	0.85
11711	69	3	1	0	3	0.116	0.003	-203.800	2601.200	0	0.108	0.000	0	0.00	0.00	1	3	8.20	0.20	291.04	291.19	2	0.15
11711	69	3	1	0	3	0.060	0.006	-59.645	8409.038	0	-0.012	0.038	0	0.00	0.00	1	3	15.58	40.12	291.22	294.25	3	3.03
11711	69	3	1	0	3	0.014	0.001	-5.319	147.103	2	-0.008	0.016	11	-0.40	0.37	1	3	5.80	81.19	294.28	301.25	1	6.97
11711	69	3	1	0	3	0.004	0.000	1.500	1.500	0	-0.114	0.044	14	-0.48	0.47	1	3	3.43	33.65	301.28	303.10	1	1.82
11711	69	3	1	0	3	0.007	0.000	2.000	0.000	0	-0.057	0.013	3	-0.18	0.10	1	3	1.33	5.33	303.13	303.22	3	0.09
11711	69	3	1	0	3	-0.007	0.002	5.030	1567.511	2	0.042	0.006	257	-0.03	8.57	1	3	20.64	234.77	303.25	330.19	0	26.94
11711	69	3	1	0	3	0.064	0.002	-147.800	5540.700	0	0.114	0.001	0	0.00	0.00	1	3	7.20	3.20	290.16	291.01	3	0.85
11711	69	3	1	0	3	0.116	0.003	-203.800	2601.200	0	0.108	0.000	0	0.00	0.00	1	3	8.20	0.20	291.04	291.19	2	0.15
11711	69	3	1	0	3	0.060	0.006	-59.645	8409.038	0	-0.012	0.038	0	0.00	0.00	1	3	15.58	40.12	291.22	294.25	3	3.03
11711	69	3	1	0	3	0.014	0.001	-5.319	147.103	2	-0.008	0.016	11	-0.40	0.37	1	3	5.80	81.19	294.28	301.25	1	6.97
11711	69	3	1	0	3	0.004	0.000	1.500	1.500	0	-0.114	0.044	14	-0.48	0.47	1	3	3.43	33.65	301.28	303.10	1	1.82
11711	69	3	1	0	3	0.007	0.000	2.000	0.000	0	-0.057	0.013	3	-0.18	0.10	1	3	1.33	5.33	303.13	303.22	3	0.09
11711	69	3	1	0	3	-0.007	0.002	5.030	1567.511	2	0.042	0.006	257	-0.03	8.57	1	3	20.64	234.77	303.25	330.19	0	26.94
11711	69	3	1	0	3	0.064	0.002	-147.800	5540.700	0	0.114	0.001	0	0.00	0.00	1	3	7.20	3.20	290.16	291.01	3	0.85
11711	69	3	1	0	3	0.116	0.003	-203.800	2601.200	0	0.108	0.000	0	0.00	0.00	1	3	8.20	0.20	291.04	291.19	2	0.15
11711	69	3	1	0	3	0.060	0.006	-59.645	8409.038	0	-0.012	0.038	0	0.00	0.00	1	3	15.58	40.12	291.22	294.25	3	3.03
11711	69	3	1	0	3	0.014	0.001	-5.319	147.103	2	-0.008	0.016	11	-0.40	0.37	1	3	5.80	81.19	294.28	301.25	1	6.97
11711	69	3	1	0	3	0.004	0.000	1.500	1.500	0	-0.114	0.044	14	-0.48	0.47	1	3	3.43	33.65	301.28	303.10	1	1.82
11711	69	3	1	0	3	0.007	0.000	2.000	0.000	0	-0.057	0.013	3	-0.18	0.10	1	3	1.33	5.33	303.13	303.22	3	0.09
11711	69	3	1	0	3	-0.007	0.002	5.030	1567.511	2	0.042	0.006	257	-0.03	8.57	1	3	20.64	234.77	303.25	330.19	0	26.94
11711	69	3	1	0	3	0.064	0.002	-147.800	5540.700	0	0.114	0.001	0	0.00	0.00	1	3	7.20	3.20	290.16	291.01	3	0.85
11711	69	3	1	0	3	0.116	0.003	-203.800	2601.200	0	0.108	0.000	0	0.00	0.00	1	3	8.20	0.20	291.04	291.19	2	0.15
11711	69	3	1	0	3	0.060	0.006	-59.645	8409.038	0	-0.012	0.038	0	0.00	0.00	1	3	15.58	40.12	291.22	294.25	3	3.03
11711	69	3	1	0	3	0.014	0.001	-5.319	147.103	2	-0.008	0.016	11	-0.40	0.37	1	3	5.80	81.19	294.28	301.25	1	6.97
11711	69	3	1	0	3	0.004	0.000	1.500	1.500	0	-0.114	0.044	14	-0.48	0.47	1	3	3.43	33.65	301.28	303.10	1	1.82
11711	69	3	1	0	3	0.007	0.000	2.000	0.000	0	-0.057	0.013	3	-0.18	0.10	1	3	1.33	5.33	303.13	303.22	3	0.09
11711	69	3	1	0	3	-0.007	0.002	5.030	1567.511	2	0.042	0.006	257	-0.03	8.57	1	3	20.64	234.77	303.25	330.19	0	26.94
11711	69	3	1	0	3	0.064	0.002	-147.800	5540.700	0	0.114	0.001	0	0.00	0.00	1	3	7.20	3.20	290.16	291.01	3	0.85
11711	69	3	1	0	3	0.116	0.003	-203.800	2601.200	0	0.108	0.000	0	0.00	0.00	1	3	8.20	0.20	291.04	291.19	2	0.15
11711	69	3	1	0	3	0.060	0.006	-59.645	8409.038	0	-0.012	0.038	0	0.00	0.00	1	3	15.58	40.12	291.22	294.25	3	3.03
11711	69	3	1	0	3	0.014	0.001	-5.319	147.103	2	-0.008	0.016	11	-0.40	0.37	1	3	5.80	81.19	294.28	301.25	1	6.97
11711	69	3	1	0	3	0.004	0.000	1.500	1.500	0	-0.114	0.044	14	-0.48	0.47	1	3	3.43	33.65	301.28	303.10	1	1.82
11711	69	3	1	0	3	0.007	0.000	2.000	0.000	0	-0.057	0.013											

11711	69	3	1	0	3	0.014	0.001	-5.319	147.103	2	-0.008	0.016	11	-0.40	0.37	1	3	5.80	81.19	294.28	301.25	1	6.97
11711	69	3	1	0	3	0.004	0.000	1.500	1.500	0	-0.114	0.044	14	-0.48	0.47	1	3	3.43	33.65	301.28	303.10	1	1.82
11711	69	3	1	0	3	0.007	0.000	2.000	0.000	0	-0.057	0.013	3	-0.18	0.10	1	3	1.33	5.33	303.13	303.22	3	0.09
11711	69	3	1	0	3	-0.007	0.002	5.030	1567.511	2	0.042	0.006	257	-0.03	0.57	1	3	20.64	234.77	303.25	330.19	0	26.94
11711	69	3	1	0	1	0.003	0.000	1.333	22.333	0	-0.007	0.001	2	-0.04	0.07	1	4	16.00	0.00	1473.04	1473.13	8	0.09
11711	69	3	1	0	1	0.018	0.000	-3.892	193.566	1	0.005	0.005	1	0.00	0.03	1	2	7.28	53.89	1473.16	1480.01	1	6.85
11711	69	3	1	0	1	0.015	0.000	-13.500	12.500	0	-0.050	0.001	2	-0.05	0.07	1	2	16.00	0.00	1480.04	1480.10	3	0.06
11711	69	3	1	0	1	0.000	0.000	4.800	337.511	0	0.004	0.001	8	-0.07	0.27	1	2	13.40	3.60	1480.13	1481.13	10	1.00
11711	69	3	1	0	1	0.000	0.000	13.250	384.500	0	0.011	0.001	0	0.00	0.00	1	2	12.38	1.13	1481.16	1482.10	1	0.94
11711	69	3	1	0	1	0.000	0.001	13.750	290.917	0	0.030	0.000	0	0.00	0.00	1	2	12.00	0.00	1482.13	1482.25	2	0.12
11711	69	3	1	0	1	0.009	0.001	4.417	309.297	0	-0.018	0.009	14	-0.16	0.47	1	2	4.50	30.26	1482.28	1485.10	1	2.82
11711	69	3	1	0	1	0.003	0.000	8.333	217.333	0	-0.230	0.000	3	-0.21	0.10	1	2	9.00	9.00	1485.13	1485.22	3	0.09
11711	69	3	1	0	1	0.013	0.000	-3.000	18.667	0	-0.180	0.006	4	-0.23	0.13	1	2	5.25	8.92	1485.25	1486.07	1	0.82
11711	69	3	1	0	1	0.020	0.000	-3.857	2.143	0	-0.044	0.011	7	-0.22	0.23	1	2	1.43	4.62	1486.10	1487.01	2	0.91
11711	69	3	1	0	1	0.003	0.000	1.333	22.333	0	-0.007	0.001	2	-0.04	0.07	1	4	16.00	0.00	1473.04	1473.13	8	0.09
11711	69	3	1	0	1	0.018	0.000	-3.892	193.566	1	0.005	0.005	1	0.00	0.03	1	2	7.28	53.89	1473.16	1480.01	1	6.85
11711	69	3	1	0	1	0.015	0.000	-13.500	12.500	0	-0.050	0.001	2	-0.05	0.07	1	2	16.00	0.00	1480.04	1480.10	3	0.06
11711	69	3	1	0	1	0.000	0.000	4.800	337.511	0	0.004	0.001	8	-0.07	0.27	1	2	13.40	3.60	1480.13	1481.13	10	1.00
11711	69	3	1	0	1	0.000	0.000	13.250	384.500	0	0.011	0.001	0	0.00	0.00	1	2	12.38	1.13	1481.16	1482.10	1	0.94
11711	69	3	1	0	1	0.000	0.001	13.750	290.917	0	0.030	0.000	0	0.00	0.00	1	2	12.00	0.00	1482.13	1482.25	2	0.12
11711	69	3	1	0	1	0.009	0.001	4.417	309.297	0	-0.018	0.009	14	-0.16	0.47	1	2	4.50	30.26	1482.28	1485.10	1	2.82
11711	69	3	1	0	1	0.003	0.000	8.333	217.333	0	-0.230	0.000	3	-0.21	0.10	1	2	9.00	9.00	1485.13	1485.22	3	0.09
11711	69	3	1	0	1	0.013	0.000	-3.000	18.667	0	-0.180	0.006	4	-0.23	0.13	1	2	5.25	8.92	1485.25	1486.07	1	0.82
11711	69	3	1	0	1	0.020	0.000	-3.857	2.143	0	-0.044	0.011	7	-0.22	0.23	1	2	1.43	4.62	1486.10	1487.01	2	0.91
11711	69	3	1	0	1	0.003	0.000	1.333	22.333	0	-0.007	0.001	2	-0.04	0.07	1	4	16.00	0.00	1473.04	1473.13	8	0.09
11711	69	3	1	0	1	0.018	0.000	-3.892	193.566	1	0.005	0.005	1	0.00	0.03	1	2	7.28	53.89	1473.16	1480.01	1	6.85
11711	69	3	1	0	1	0.015	0.000	-13.500	12.500	0	-0.050	0.001	2	-0.05	0.07	1	2	16.00	0.00	1480.04	1480.10	3	0.06
11711	69	3	1	0	1	0.000	0.000	4.800	337.511	0	0.004	0.001	8	-0.07	0.27	1	2	13.40	3.60	1480.13	1481.13	10	1.00
11711	69	3	1	0	1	0.000	0.000	13.250	384.500	0	0.011	0.001	0	0.00	0.00	1	2	12.38	1.13	1481.16	1482.10	1	0.94
11711	69	3	1	0	1	0.000	0.001	13.750	290.917	0	0.030	0.000	0	0.00	0.00	1	2	12.00	0.00	1482.13	1482.25	2	0.12
11711	69	3	1	0	1	0.009	0.001	4.417	309.297	0	-0.018	0.009	14	-0.16	0.47	1	2	4.50	30.26	1482.28	1485.10	1	2.82
11711	69	3	1	0	1	0.003	0.000	8.333	217.333	0	-0.230	0.000	3	-0.21	0.10	1	2	9.00	9.00	1485.13	1485.22	3	0.09
11711	69	3	1	0	1	0.013	0.000	-3.000	18.667	0	-0.180	0.006	4	-0.23	0.13	1	2	5.25	8.92	1485.25	1486.07	1	0.82
11711	69	3	1	0	1	0.020	0.000	-3.857	2.143	0	-0.044	0.011	7	-0.22	0.23	1	2	1.43	4.62	1486.10	1487.01	2	0.91
11711	69	3	1	0	6	-0.012	0.000	15.500	62.273	0	-0.017	0.002	12	-0.09	0.40	3	3	3.75	2.57	1207.04	1208.10	7	1.06
11711	69	3	1	0	6	-0.012	0.000	12.400	62.300	0	0.024	0.000	5	0.00	0.17	3	3	4.00	0.00	1208.13	1208.28	1	0.15

11711	69	3	1	0	6	-0.008	0.000	22.250	24.713	0	0.031	0.001	19	-0.06	0.63	3	3	0.82	2.60	1209.01	1211.25	5	2.24
11711	69	3	1	0	6	-0.017	0.002	73.934	26622.938	0	0.052	0.007	56	-0.06	1.87	3	3	4.38	28.80	1211.28	1224.04	0	12.76
11711	69	3	1	0	6	-0.010	0.000	9.286	340.238	0	0.227	0.005	0	0.00	0.00	3	3	7.57	13.95	1224.07	1224.28	1	0.21
11711	69	3	1	0	6	-0.003	0.000	-1.667	2.667	0	0.178	0.009	0	0.00	0.00	3	3	9.83	5.77	1225.01	1225.19	5	0.18
11711	69	3	1	0	6	0.004	0.000	-10.091	58.491	0	0.047	0.009	0	0.00	0.00	3	3	11.55	1.47	1225.22	1226.25	1	1.03
11711	69	3	1	0	6	0.006	0.000	-14.667	36.750	0	0.000	0.001	0	0.00	0.00	3	3	12.00	0.00	1226.28	1227.25	5	0.97
11711	69	3	1	0	6	0.011	0.000	-17.143	16.810	0	-0.009	0.001	7	-0.03	0.23	3	3	12.00	0.00	1227.28	1228.19	1	0.91
11711	69	3	1	0	6	0.010	0.000	-19.429	15.286	0	0.003	0.001	7	-0.04	0.23	3	3	12.00	0.00	1228.22	1229.13	5	0.91
11711	69	3	1	0	6	0.010	0.000	-19.500	24.500	0	0.005	0.000	0	0.00	0.00	3	3	12.00	0.00	1229.16	1229.19	1	0.03
11711	69	3	1	0	6	-0.010	0.001	-4.429	308.110	0	0.058	0.002	0	0.00	0.00	3	3	12.00	0.00	1229.22	1231.04	5	1.82
11711	69	3	1	0	6	0.005	0.000	-15.250	108.250	0	0.055	0.000	0	0.00	0.00	3	3	12.00	0.00	1231.07	1231.19	1	0.12
11711	69	3	1	0	6	-0.008	0.000	-1.400	176.300	0	0.056	0.000	0	0.00	0.00	3	3	12.00	0.00	1231.22	1232.07	2	0.85
11711	69	3	1	0	6	-0.010	0.000	3.000	50.000	0	0.055	0.000	0	0.00	0.00	3	3	12.00	0.00	1232.10	1232.16	1	0.06
11711	69	3	1	0	6	-0.025	0.000	8.000	30.000	0	0.065	0.000	0	0.00	0.00	3	3	12.00	0.00	1232.19	1233.01	2	0.82
11711	69	3	1	0	6	-0.027	0.000	11.250	2.917	0	0.083	0.001	0	0.00	0.00	3	3	12.00	0.00	1233.04	1233.16	7	0.12
11711	69	3	1	0	6	-0.003	0.000	-10.146	462.328	1	0.009	0.007	15	-0.15	0.50	3	3	4.76	34.89	1233.19	1237.22	1	4.03
11711	69	3	1	0	6	0.005	0.000	-24.500	1.667	0	-0.157	0.001	4	-0.15	0.13	3	3	9.50	5.67	1237.25	1238.07	2	0.82
11711	69	3	1	0	6	-0.002	0.000	-24.500	1.667	0	-0.147	0.002	4	-0.19	0.13	3	3	7.00	6.67	1238.10	1238.22	1	0.12
11711	69	3	1	0	6	0.001	0.000	-23.778	1.694	0	-0.042	0.004	9	-0.18	0.30	3	3	3.22	7.44	1238.25	1239.22	2	0.97
11711	69	3	1	0	6	0.005	0.000	44.061	16500.559	0	0.032	0.001	33	-0.05	1.10	3	3	0.42	1.44	1239.25	1243.04	1	3.79
11711	69	3	1	0	6	-0.026	0.003	110.560	39969.785	1	0.023	0.016	28	0.00	0.93	3	3	4.83	48.98	1243.07	1250.22	0	7.15
11711	69	3	1	0	6	0.007	0.000	223.333	6400.333	0	0.043	0.000	0	0.00	0.00	3	3	0.00	0.00	1250.25	1251.04	1	0.79
11711	69	3	1	0	6	0.002	0.000	323.000	6816.667	0	0.043	0.000	0	0.00	0.00	3	3	0.00	0.00	1251.07	1251.19	2	0.12
11711	69	3	1	0	6	-0.072	0.005	389.333	27290.535	0	0.094	0.003	0	0.00	0.00	3	3	3.33	9.43	1251.22	1253.25	1	2.03
11711	69	3	1	0	6	-0.100	0.003	494.333	4.000	0	0.087	0.004	0	0.00	0.00	3	3	3.11	3.11	1253.28	1254.25	2	0.97
11711	69	3	1	0	6	-0.100	0.003	493.333	0.333	0	0.123	0.001	0	0.00	0.00	3	3	4.00	0.00	1254.28	1255.07	1	0.79
11711	69	3	1	0	6	-0.051	0.004	122.344	45827.699	0	-0.002	0.035	0	0.00	0.00	3	3	11.09	44.15	1255.10	1258.16	2	3.06
11711	69	3	1	0	6	-0.020	0.001	-5.941	947.457	2	-0.006	0.019	0	0.00	0.00	3	3	6.33	63.23	1258.19	1263.22	1	5.03
11711	69	3	1	0	6	-0.003	0.000	-3.667	2.333	0	0.040	0.000	0	0.00	0.00	1	3	36.00	0.00	1903.10	1903.19	1	0.09
11711	69	3	1	0	6	0.020	0.001	-4.571	3.286	0	0.056	0.000	0	0.00	0.00	1	3	36.29	0.57	1903.22	1904.13	2	0.91
11711	69	3	1	0	6	0.028	0.000	-5.500	2.700	0	0.062	0.000	0	0.00	0.00	1	3	37.00	2.80	1904.16	1905.04	1	0.88
11711	69	3	1	0	6	0.040	0.000	-4.000	1.000	0	0.060	0.000	0	0.00	0.00	1	3	36.33	0.33	1905.07	1905.16	3	0.09
11711	69	3	1	0	6	-0.056	0.019	66.556	17036.629	1	-0.016	0.017	0	0.00	0.00	1	3	26.63	129.56	1905.19	1911.01	1	5.82
11711	69	3	1	0	6	0.060	0.000	-10.125	1.554	0	-0.029	0.001	3	-0.04	0.10	1	3	36.63	2.55	1911.04	1911.28	2	0.24
11711	69	3	1	0	6	0.060	0.000	-10.400	3.800	0	-0.048	0.001	5	-0.08	0.17	1	3	36.00	0.00	1912.01	1912.16	1	0.15
11711	69	3	1	0	6	0.065	0.000	-10.500	2.000	0	-0.068	0.004	8	-0.08	0.27	1	3	34.13	4.13	1912.19	1913.13	2	0.94

11711	69	3	1	0	6	-0.029	0.034	31.043	36510.695	1	-0.023	0.023	43	-0.29	1.43	1	3	17.79	57.35	1913.16	1918.07	1	4.91
11711	69	3	1	0	6	-0.117	0.001	208.000	11852.000	0	-0.125	0.004	4	-0.17	0.13	1	3	13.00	4.00	1918.10	1918.22	1	0.12
11711	69	3	1	0	6	-0.240	0.009	344.667	10464.666	0	-0.007	0.017	6	-0.16	0.20	1	3	10.83	3.37	1918.25	1919.13	2	0.88
11711	69	3	1	0	6	-0.262	0.009	403.250	1886.917	0	0.052	0.007	0	0.00	0.00	1	3	10.50	3.67	1919.16	1919.28	1	0.12
11711	69	3	1	0	6	-0.336	0.003	384.200	2878.700	0	0.130	0.007	0	0.00	0.00	1	3	9.60	3.30	1920.01	1920.16	2	0.15
11711	69	3	1	0	6	-0.376	0.001	338.000	5795.500	0	0.182	0.001	0	0.00	0.00	1	3	9.80	4.20	1920.19	1921.04	3	0.85
11711	69	3	1	0	6	-0.326	0.010	243.400	12014.800	0	0.192	0.000	0	0.00	0.00	1	3	11.00	3.00	1921.07	1921.22	2	0.15
11711	69	3	1	0	6	-0.207	0.022	136.000	13502.000	0	0.182	0.001	0	0.00	0.00	1	3	14.00	6.40	1921.25	1922.13	8	0.88
11711	69	3	1	0	6	0.019	0.023	-59.759	18990.619	0	0.042	0.014	0	0.00	0.00	1	3	15.38	10.53	1922.16	1925.13	1	2.97
11711	69	3	1	0	6	-0.097	0.002	25.500	217.667	0	-0.055	0.004	4	-0.01	0.13	1	3	20.00	0.00	1925.16	1925.28	4	0.12
11711	69	3	1	0	6	0.112	0.020	-140.938	17676.061	1	-0.027	0.015	16	-0.11	0.53	1	3	14.25	9.67	1926.01	1927.19	1	1.18
11711	69	3	1	0	6	0.068	0.006	-55.209	10825.553	0	0.032	0.007	10	-0.22	0.33	1	2	19.51	25.88	1927.22	1932.01	3	4.79
11711	69	3	1	0	6	0.048	0.000	-3.333	38.000	0	0.124	0.000	0	0.00	0.00	1	2	17.00	8.50	1932.04	1933.01	1	0.97
11711	69	3	1	0	6	0.023	0.000	0.083	0.447	0	0.079	0.002	0	0.00	0.00	1	2	20.50	9.36	1933.04	1934.10	3	1.06
11711	69	3	1	0	6	0.027	0.000	0.500	0.333	0	0.097	0.000	0	0.00	0.00	1	2	20.00	0.00	1934.13	1934.25	1	0.12
11711	69	3	1	0	6	0.014	0.000	-0.818	3.164	0	0.046	0.001	0	0.00	0.00	1	2	22.73	3.42	1934.28	1936.01	10	1.73
11711	69	3	1	0	6	0.007	0.000	-0.250	0.250	0	0.045	0.001	0	0.00	0.00	1	1	23.50	1.00	1936.04	1936.16	1	0.12
11711	69	3	1	0	6	0.021	0.000	-1.455	2.473	0	0.016	0.000	0	0.00	0.00	1	1	24.00	0.00	1936.19	1937.22	10	1.03
11711	69	3	1	0	6	0.059	0.001	-6.069	27.781	1	0.017	0.000	0	0.00	0.00	1	1	24.00	0.00	1937.25	1940.22	1	2.97
11711	69	3	1	0	6	0.047	0.000	-3.375	23.982	0	0.004	0.000	0	0.00	0.00	1	1	24.00	0.00	1940.25	1941.19	10	0.94
11711	69	3	1	0	6	0.049	0.003	-7.776	100.844	0	0.031	0.001	0	0.00	0.00	1	1	27.31	7.59	1941.22	1947.16	1	5.94
11711	69	3	1	0	6	0.080	0.000	-6.333	20.333	0	0.050	0.000	0	0.00	0.00	1	1	24.00	0.00	1947.19	1947.28	2	0.09
11711	69	3	1	0	6	-0.012	0.000	15.500	62.273	0	-0.017	0.002	12	-0.09	0.40	3	3	3.75	2.57	1207.04	1208.10	7	1.06
11711	69	3	1	0	6	-0.012	0.000	12.400	62.300	0	0.024	0.000	5	0.00	0.17	3	3	4.00	0.00	1208.13	1208.28	1	0.15
11711	69	3	1	0	6	-0.008	0.000	22.250	24.713	0	0.031	0.001	19	-0.06	0.63	3	3	0.82	2.60	1209.01	1211.25	5	2.24
11711	69	3	1	0	6	-0.017	0.002	73.934	26622.938	0	0.052	0.007	56	-0.06	1.87	3	3	4.38	28.80	1211.28	1224.04	0	12.76
11711	69	3	1	0	6	-0.010	0.000	9.286	340.238	0	0.227	0.005	0	0.00	0.00	3	3	7.57	13.95	1224.07	1224.28	1	0.21
11711	69	3	1	0	6	-0.003	0.000	-1.667	2.667	0	0.178	0.009	0	0.00	0.00	3	3	9.83	5.77	1225.01	1225.19	5	0.18
11711	69	3	1	0	6	0.004	0.000	-10.091	58.491	0	0.047	0.009	0	0.00	0.00	3	3	11.55	1.47	1225.22	1226.25	1	1.03
11711	69	3	1	0	6	0.006	0.000	-14.667	36.750	0	0.000	0.001	0	0.00	0.00	3	3	12.00	0.00	1226.28	1227.25	5	0.97
11711	69	3	1	0	6	0.011	0.000	-17.143	16.810	0	-0.009	0.001	7	-0.03	0.23	3	3	12.00	0.00	1227.28	1228.19	1	0.91
11711	69	3	1	0	6	0.010	0.000	-19.429	15.286	0	0.003	0.001	7	-0.04	0.23	3	3	12.00	0.00	1228.22	1229.13	5	0.91
11711	69	3	1	0	6	0.010	0.000	-19.500	24.500	0	0.005	0.000	0	0.00	0.00	3	3	12.00	0.00	1229.16	1229.19	1	0.03
11711	69	3	1	0	6	-0.010	0.001	-4.429	308.110	0	0.058	0.002	0	0.00	0.00	3	3	12.00	0.00	1229.22	1231.04	5	1.82
11711	69	3	1	0	6	0.005	0.000	-15.250	108.250	0	0.055	0.000	0	0.00	0.00	3	3	12.00	0.00	1231.07	1231.19	1	0.12
11711	69	3	1	0	6	-0.008	0.000	-1.400	176.300	0	0.056	0.000	0	0.00	0.00	3	3	12.00	0.00	1231.22	1232.07	2	0.85

11711	69	3	1	0	6	-0.010	0.000	3.000	50.000	0	0.055	0.000	0	0.00	0.00	3	3	12.00	0.00	1232.10	1232.16	1	0.06
11711	69	3	1	0	6	-0.025	0.000	8.000	30.000	0	0.065	0.000	0	0.00	0.00	3	3	12.00	0.00	1232.19	1233.01	2	0.82
11711	69	3	1	0	6	-0.027	0.000	11.250	2.917	0	0.083	0.001	0	0.00	0.00	3	3	12.00	0.00	1233.04	1233.16	7	0.12
11711	69	3	1	0	6	-0.003	0.000	-10.146	462.328	1	0.009	0.007	15	-0.15	0.13	3	3	4.76	34.89	1233.19	1237.22	1	4.03
11711	69	3	1	0	6	0.005	0.000	-24.500	1.667	0	-0.157	0.001	4	-0.15	0.13	3	3	9.50	5.67	1237.25	1238.07	2	0.82
11711	69	3	1	0	6	-0.002	0.000	-24.500	1.667	0	-0.147	0.002	4	-0.19	0.13	3	3	7.00	6.67	1238.10	1238.22	1	0.12
11711	69	3	1	0	6	0.001	0.000	-23.778	1.694	0	-0.042	0.004	9	-0.18	0.30	3	3	3.22	7.44	1238.25	1239.22	2	0.97
11711	69	3	1	0	6	0.005	0.000	44.061	16500.559	0	0.032	0.001	33	-0.05	1.10	3	3	0.42	1.44	1239.25	1243.04	1	3.79
11711	69	3	1	0	6	-0.026	0.003	110.560	39969.785	1	0.023	0.016	28	0.00	0.93	3	3	4.83	48.98	1243.07	1250.22	0	7.15
11711	69	3	1	0	6	0.007	0.000	223.333	6400.333	0	0.043	0.000	0	0.00	0.00	3	3	0.00	0.00	1250.25	1251.04	1	0.79
11711	69	3	1	0	6	0.002	0.000	323.000	6816.667	0	0.043	0.000	0	0.00	0.00	3	3	0.00	0.00	1251.07	1251.19	2	0.12
11711	69	3	1	0	6	-0.072	0.005	389.333	27290.535	0	0.094	0.003	0	0.00	0.00	3	3	3.33	9.43	1251.22	1253.25	1	2.03
11711	69	3	1	0	6	-0.100	0.003	494.333	4.000	0	0.087	0.004	0	0.00	0.00	3	3	3.11	3.11	1253.28	1254.25	2	0.97
11711	69	3	1	0	6	-0.100	0.003	493.333	0.333	0	0.123	0.001	0	0.00	0.00	3	3	4.00	0.00	1254.28	1255.07	1	0.79
11711	69	3	1	0	6	-0.051	0.004	122.344	45827.699	0	-0.002	0.035	0	0.00	0.00	3	3	11.09	44.15	1255.10	1258.16	2	3.06
11711	69	3	1	0	6	-0.020	0.001	-5.941	947.457	2	-0.006	0.019	0	0.00	0.00	3	3	6.33	63.23	1258.19	1263.22	1	5.03
11711	69	3	1	0	6	-0.003	0.000	-3.667	2.333	0	0.040	0.000	0	0.00	0.00	1	3	36.00	0.00	1903.10	1903.19	1	0.09
11711	69	3	1	0	6	0.020	0.001	-4.571	3.286	0	0.056	0.000	0	0.00	0.00	1	3	36.29	0.57	1903.22	1904.13	2	0.91
11711	69	3	1	0	6	0.028	0.000	-5.500	2.700	0	0.062	0.000	0	0.00	0.00	1	3	37.00	2.80	1904.16	1905.04	1	0.88
11711	69	3	1	0	6	0.040	0.000	-4.000	1.000	0	0.060	0.000	0	0.00	0.00	1	3	36.33	0.33	1905.07	1905.16	3	0.09
11711	69	3	1	0	6	-0.056	0.019	66.556	17036.629	1	-0.016	0.017	0	0.00	0.00	1	3	26.63	129.56	1905.19	1911.01	1	5.82
11711	69	3	1	0	6	0.060	0.000	-10.125	1.554	0	-0.029	0.001	3	-0.04	0.10	1	3	36.63	2.55	1911.04	1911.28	2	0.24
11711	69	3	1	0	6	0.065	0.000	-10.400	3.800	0	-0.048	0.001	5	-0.08	0.17	1	3	36.00	0.00	1912.01	1912.16	1	0.15
11711	69	3	1	0	6	0.065	0.000	-10.500	2.000	0	-0.068	0.004	8	-0.08	0.27	1	3	34.13	4.13	1912.19	1913.13	2	0.94
11711	69	3	1	0	6	-0.029	0.034	31.043	36510.695	1	-0.023	0.023	43	-0.29	1.43	1	3	17.79	57.35	1913.16	1918.07	1	4.91
11711	69	3	1	0	6	-0.117	0.001	208.000	11852.000	0	-0.125	0.004	4	-0.17	0.13	1	3	13.00	4.00	1918.10	1918.22	1	0.12
11711	69	3	1	0	6	-0.240	0.009	344.667	10464.666	0	-0.007	0.017	6	-0.16	0.20	1	3	10.83	3.37	1918.25	1919.13	2	0.88
11711	69	3	1	0	6	-0.262	0.009	403.250	1686.917	0	0.052	0.007	0	0.00	0.00	1	3	10.50	3.67	1919.16	1919.28	1	0.12
11711	69	3	1	0	6	-0.336	0.003	384.200	2678.700	0	0.130	0.007	0	0.00	0.00	1	3	9.60	3.30	1920.01	1920.16	2	0.15
11711	69	3	1	0	6	-0.376	0.001	338.000	5795.500	0	0.182	0.001	0	0.00	0.00	1	3	9.80	4.20	1920.19	1921.04	3	0.85
11711	69	3	1	0	6	-0.326	0.010	243.400	12014.800	0	0.192	0.000	0	0.00	0.00	1	3	11.00	3.00	1921.07	1921.22	2	0.15
11711	69	3	1	0	6	-0.207	0.022	136.000	13502.000	0	0.182	0.001	0	0.00	0.00	1	3	14.00	6.40	1921.25	1922.13	8	0.88
11711	69	3	1	0	6	0.019	0.023	-59.759	18990.619	0	0.042	0.014	0	0.00	0.00	1	3	15.38	10.53	1922.16	1925.13	1	2.97
11711	69	3	1	0	6	-0.097	0.002	25.500	217.667	0	-0.055	0.004	4	-0.01	0.13	1	3	20.00	0.00	1925.16	1925.28	4	0.12
11711	69	3	1	0	6	0.112	0.020	-140.938	17676.061	1	-0.027	0.015	16	-0.11	0.53	1	3	14.25	9.67	1926.01	1927.19	1	1.18
11711	69	3	1	0	6	0.068	0.006	-55.209	10825.553	0	0.032	0.007	10	-0.22	0.33	1	2	19.51	25.88	1927.22	1932.01	3	4.79

11711	69	3	1	0	6	0.048	0.000	-3.333	38.000	0	0.124	0.000	0	0.00	0.00	1	2	17.00	8.50	1932.04	1933.01	1	0.97
11711	69	3	1	0	6	0.023	0.000	0.083	0.447	0	0.079	0.002	0	0.00	0.00	1	2	20.50	9.36	1933.04	1934.10	3	1.06
11711	69	3	1	0	6	0.027	0.000	0.500	0.333	0	0.097	0.000	0	0.00	0.00	1	2	20.00	0.00	1934.13	1934.25	1	0.12
11711	69	3	1	0	6	0.014	0.000	-0.818	3.164	0	0.046	0.001	0	0.00	0.00	1	2	22.73	3.42	1934.28	1936.01	10	1.73
11711	69	3	1	0	6	0.007	0.000	-0.250	0.250	0	0.045	0.001	0	0.00	0.00	1	1	23.50	1.00	1936.04	1936.16	1	0.12
11711	69	3	1	0	6	0.021	0.000	-1.455	2.473	0	0.016	0.000	0	0.00	0.00	1	1	24.00	0.00	1936.19	1937.22	10	1.03
11711	69	3	1	0	6	0.059	0.001	-6.069	27.781	1	0.017	0.000	0	0.00	0.00	1	1	24.00	0.00	1937.25	1940.22	1	2.97
11711	69	3	1	0	6	0.047	0.000	-3.375	23.982	0	0.004	0.000	0	0.00	0.00	1	1	24.00	0.00	1940.25	1941.19	10	0.94
11711	69	3	1	0	6	0.049	0.003	-7.776	100.844	0	0.031	0.001	0	0.00	0.00	1	1	27.31	7.59	1941.22	1947.16	1	5.94
11711	69	3	1	0	6	0.080	0.000	-6.333	20.333	0	0.050	0.000	0	0.00	0.00	1	1	24.00	0.00	1947.19	1947.28	2	0.09
11711	69	3	1	0	6	-0.012	0.000	15.500	62.273	0	-0.017	0.002	12	-0.09	0.40	3	3	3.75	2.57	1207.04	1208.10	7	1.06
11711	69	3	1	0	6	-0.012	0.000	12.400	62.300	0	0.024	0.000	5	0.00	0.17	3	3	4.00	0.00	1208.13	1208.28	1	0.15
11711	69	3	1	0	6	-0.008	0.000	22.250	24.713	0	0.031	0.001	19	-0.06	0.63	3	3	0.82	2.60	1209.01	1211.25	5	2.24
11711	69	3	1	0	6	-0.017	0.002	73.934	26622.938	0	0.052	0.007	56	-0.06	1.87	3	3	4.38	28.80	1211.28	1224.04	0	12.76
11711	69	3	1	0	6	-0.010	0.000	9.286	340.238	0	0.227	0.005	0	0.00	0.00	3	3	7.57	13.95	1224.07	1224.28	1	0.21
11711	69	3	1	0	6	-0.003	0.000	-1.667	2.667	0	0.178	0.009	0	0.00	0.00	3	3	9.83	5.77	1225.01	1225.19	5	0.18
11711	69	3	1	0	6	0.004	0.000	-10.091	58.491	0	0.047	0.009	0	0.00	0.00	3	3	11.55	1.47	1225.22	1226.25	1	1.03
11711	69	3	1	0	6	0.006	0.000	-14.667	36.750	0	0.000	0.001	0	0.00	0.00	3	3	12.00	0.00	1226.28	1227.25	5	0.97
11711	69	3	1	0	6	0.011	0.000	-17.143	16.810	0	-0.009	0.001	7	-0.03	0.23	3	3	12.00	0.00	1227.28	1228.19	1	0.91
11711	69	3	1	0	6	0.010	0.000	-19.429	15.286	0	0.003	0.001	7	-0.04	0.23	3	3	12.00	0.00	1228.22	1229.13	5	0.91
11711	69	3	1	0	6	0.010	0.000	-19.500	24.500	0	0.005	0.000	0	0.00	0.00	3	3	12.00	0.00	1229.16	1229.19	1	0.03
11711	69	3	1	0	6	-0.010	0.001	-4.429	308.110	0	0.058	0.002	0	0.00	0.00	3	3	12.00	0.00	1229.22	1231.04	5	1.82
11711	69	3	1	0	6	0.005	0.000	-15.250	108.250	0	0.055	0.000	0	0.00	0.00	3	3	12.00	0.00	1231.07	1231.19	1	0.12
11711	69	3	1	0	6	-0.008	0.000	-1.400	176.300	0	0.056	0.000	0	0.00	0.00	3	3	12.00	0.00	1231.22	1232.07	2	0.85
11711	69	3	1	0	6	-0.010	0.000	3.000	50.000	0	0.055	0.000	0	0.00	0.00	3	3	12.00	0.00	1232.10	1232.16	1	0.06
11711	69	3	1	0	6	-0.025	0.000	8.000	30.000	0	0.065	0.000	0	0.00	0.00	3	3	12.00	0.00	1232.19	1233.01	2	0.82
11711	69	3	1	0	6	-0.027	0.000	11.250	2.917	0	0.093	0.001	0	0.00	0.00	3	3	12.00	0.00	1233.04	1233.16	7	0.12
11711	69	3	1	0	6	-0.003	0.000	-10.146	462.328	1	0.009	0.007	15	-0.15	0.50	3	3	4.76	34.89	1233.19	1237.22	1	4.03
11711	69	3	1	0	6	0.005	0.000	-24.500	1.667	0	-0.157	0.001	4	-0.15	0.13	3	3	9.50	5.67	1237.25	1238.07	2	0.82
11711	69	3	1	0	6	-0.002	0.000	-24.500	1.667	0	-0.147	0.002	4	-0.19	0.13	3	3	7.00	6.67	1238.10	1238.22	1	0.12
11711	69	3	1	0	6	0.001	0.000	-23.778	1.694	0	-0.042	0.004	9	-0.18	0.30	3	3	3.22	7.44	1238.25	1239.22	2	0.97
11711	69	3	1	0	6	0.005	0.000	44.061	16500.559	0	0.032	0.001	33	-0.05	1.10	3	3	0.42	1.44	1239.25	1243.04	1	3.79
11711	69	3	1	0	6	-0.026	0.003	110.560	39969.785	1	0.023	0.016	28	0.00	0.93	3	3	4.83	48.98	1243.07	1250.22	0	7.15
11711	69	3	1	0	6	0.007	0.000	223.333	6400.333	0	0.043	0.000	0	0.00	0.00	3	3	0.00	0.00	1250.25	1251.04	1	0.79
11711	69	3	1	0	6	0.002	0.000	323.000	6816.667	0	0.043	0.000	0	0.00	0.00	3	3	0.00	0.00	1251.07	1251.19	2	0.12
11711	69	3	1	0	6	-0.072	0.005	389.333	27290.535	0	0.094	0.003	0	0.00	0.00	3	3	3.33	9.43	1251.22	1253.25	1	2.03

11711	69	3	1	0	6	-0.100	0.003	494.333	4.000	0	0.087	0.004	0	0.00	0.00	3	3	3.11	1253.28	1254.25	2	0.97	
11711	69	3	1	0	6	-0.100	0.003	493.333	0.333	0	0.123	0.001	0	0.00	0.00	3	3	4.00	1254.28	1255.07	1	0.79	
11711	69	3	1	0	6	-0.051	0.004	122.344	45827.699	0	-0.002	0.035	0	0.00	0.00	3	3	11.09	1255.10	1258.16	2	3.06	
11711	69	3	1	0	6	-0.020	0.001	-5.941	947.457	2	-0.006	0.019	0	0.00	0.00	3	3	6.33	1258.19	1263.22	1	5.03	
11711	69	3	1	0	6	-0.003	0.000	-3.667	2.333	0	0.040	0.000	0	0.00	0.00	1	3	36.00	1903.10	1903.19	1	0.09	
11711	69	3	1	0	6	0.020	0.001	-4.571	3.286	0	0.056	0.000	0	0.00	0.00	1	3	36.29	1903.22	1904.13	2	0.91	
11711	69	3	1	0	6	0.028	0.000	-5.500	2.700	0	0.062	0.000	0	0.00	0.00	1	3	37.00	1904.16	1905.04	1	0.88	
11711	69	3	1	0	6	0.040	0.000	-4.000	1.000	0	0.060	0.000	0	0.00	0.00	1	3	36.33	1905.07	1905.16	3	0.09	
11711	69	3	1	0	6	-0.056	0.019	66.556	17036.629	1	-0.016	0.017	0	0.00	0.00	1	3	26.63	129.56	1905.19	1911.01	1	5.82
11711	69	3	1	0	6	0.060	0.000	-10.125	1.554	0	-0.029	0.001	3	-0.04	0.10	1	3	36.63	2.55	1911.04	1911.28	2	0.24
11711	69	3	1	0	6	0.060	0.000	-10.400	3.800	0	-0.048	0.001	5	-0.08	0.17	1	3	36.00	0.00	1912.01	1912.16	1	0.15
11711	69	3	1	0	6	0.065	0.000	-10.500	2.000	0	-0.068	0.004	8	-0.08	0.27	1	3	34.13	4.13	1912.19	1913.13	2	0.94
11711	69	3	1	0	6	-0.029	0.034	31.043	36510.695	1	-0.023	0.023	43	-0.29	1.43	1	3	17.79	57.35	1913.16	1918.07	1	4.91
11711	69	3	1	0	6	-0.117	0.001	208.000	11852.000	0	-0.125	0.004	4	-0.17	0.13	1	3	13.00	4.00	1918.10	1918.22	1	0.12
11711	69	3	1	0	6	-0.240	0.009	344.667	10464.666	0	-0.007	0.017	6	-0.16	0.20	1	3	10.83	3.37	1918.25	1919.13	2	0.88
11711	69	3	1	0	6	-0.262	0.009	403.250	1686.917	0	0.052	0.007	0	0.00	0.00	1	3	10.50	3.67	1919.16	1919.28	1	0.12
11711	69	3	1	0	6	-0.336	0.003	384.200	2676.700	0	0.130	0.007	0	0.00	0.00	1	3	9.60	3.30	1920.01	1920.16	2	0.15
11711	69	3	1	0	6	-0.376	0.001	338.000	5795.500	0	0.182	0.001	0	0.00	0.00	1	3	9.80	4.20	1920.19	1921.04	3	0.85
11711	69	3	1	0	6	-0.326	0.010	243.400	12014.800	0	0.192	0.000	0	0.00	0.00	1	3	11.00	3.00	1921.07	1921.22	2	0.15
11711	69	3	1	0	6	-0.207	0.022	136.000	13502.000	0	0.182	0.001	0	0.00	0.00	1	3	14.00	6.40	1921.25	1922.13	8	0.88
11711	69	3	1	0	6	0.019	0.023	-59.759	18990.619	0	0.042	0.014	0	0.00	0.00	1	3	15.38	10.53	1922.16	1925.13	1	2.97
11711	69	3	1	0	6	-0.097	0.002	25.500	217.667	0	-0.055	0.004	4	-0.01	0.13	1	3	20.00	0.00	1925.16	1925.28	4	0.12
11711	69	3	1	0	6	0.112	0.020	-140.938	17676.061	1	-0.027	0.015	16	-0.11	0.53	1	3	14.25	9.67	1926.01	1927.19	1	1.18
11711	69	3	1	0	6	0.068	0.006	-55.209	10825.553	0	0.032	0.007	10	-0.22	0.33	1	2	19.51	25.88	1927.22	1932.01	3	4.79
11711	69	3	1	0	6	0.048	0.000	-3.333	38.000	0	0.124	0.000	0	0.00	0.00	1	2	17.00	8.50	1932.04	1933.01	1	0.97
11711	69	3	1	0	6	0.023	0.000	0.063	0.447	0	0.079	0.002	0	0.00	0.00	1	2	20.50	9.36	1933.04	1934.10	3	1.06
11711	69	3	1	0	6	0.027	0.000	0.500	0.333	0	0.097	0.000	0	0.00	0.00	1	2	20.00	0.00	1934.13	1934.25	1	0.12
11711	69	3	1	0	6	0.014	0.000	-0.818	3.164	0	0.046	0.001	0	0.00	0.00	1	2	22.73	3.42	1934.28	1936.01	10	1.73
11711	69	3	1	0	6	0.007	0.000	-0.250	0.250	0	0.045	0.001	0	0.00	0.00	1	1	23.50	1.00	1936.04	1936.16	1	0.12
11711	69	3	1	0	6	0.021	0.000	-1.455	2.473	0	0.016	0.000	0	0.00	0.00	1	1	24.00	0.00	1936.19	1937.22	10	1.03
11711	69	3	1	0	6	0.059	0.001	-6.069	27.781	1	0.017	0.000	0	0.00	0.00	1	1	24.00	0.00	1937.25	1940.22	1	2.97
11711	69	3	1	0	6	0.047	0.000	-3.375	23.982	0	0.004	0.000	0	0.00	0.00	1	1	24.00	0.00	1940.25	1941.19	10	0.94
11711	69	3	1	0	6	0.049	0.003	-7.776	100.844	0	0.031	0.001	0	0.00	0.00	1	1	27.31	7.59	1941.22	1947.16	1	5.94
11711	69	3	1	0	6	0.080	0.000	-6.333	20.333	0	0.050	0.000	0	0.00	0.00	1	1	24.00	0.00	1947.19	1947.28	2	0.09
11741	72	3	1	0	3	0.003	0.000	-22.667	6.333	0	0.047	0.001	0	0.00	0.00	1	1	4.00	0.00	1046.25	1047.04	1	0.79
11741	72	3	1	0	3	0.012	0.000	-7.333	28.319	0	0.052	0.002	0	0.00	0.00	1	1	7.67	2.75	1047.07	1049.19	10	2.12

18941	16	1	1	0	5	0.099	0.001	-26.438	45.996	0	0.036	0.000	0	0.00	0.00	1	1	27.31	2.23	77.22	79.10	3	1.88
18941	16	1	1	0	5	0.104	0.001	-26.100	43.211	0	0.035	0.000	0	0.00	0.00	1	1	28.00	0.00	79.13	80.13	1	1.00
18941	16	1	1	0	5	0.048	0.001	-12.703	90.826	0	0.005	0.002	0	0.00	0.00	1	1	27.35	2.29	80.16	84.07	3	3.91
18941	16	1	1	0	4	0.004	0.000	-0.500	1.192	0	0.030	0.000	0	0.00	0.00	1	2	32.00	0.00	1037.10	1038.22	10	1.12
18941	16	1	1	0	4	0.011	0.000	-1.400	1.686	0	0.033	0.000	0	0.00	0.00	1	2	32.00	0.00	1038.25	1040.10	1	1.85
18941	16	1	1	0	4	0.013	0.000	-1.800	1.733	0	0.034	0.000	0	0.00	0.00	1	2	32.00	0.00	1040.13	1041.13	10	1.00
18941	16	1	1	0	4	-0.003	0.000	-0.617	2.676	1	0.038	0.000	0	0.00	0.00	1	2	33.17	3.32	1041.16	1046.07	1	4.91
18941	16	1	1	0	4	-0.008	0.000	0.000	0.000	0	0.036	0.000	0	0.00	0.00	1	2	32.00	0.00	1046.10	1046.25	9	0.15
18941	16	1	1	0	4	0.002	0.000	0.500	1.667	0	0.032	0.000	0	0.00	0.00	1	2	32.00	0.00	1046.28	1047.10	1	0.82
18941	16	1	1	0	4	-0.010	0.000	0.900	4.767	0	0.042	0.000	0	0.00	0.00	1	2	32.00	0.00	1047.13	1048.13	3	1.00
18941	16	1	1	0	4	-0.002	0.000	-0.607	6.609	2	0.034	0.000	0	0.00	0.00	1	2	35.00	3.07	1048.16	1054.19	1	6.03
18941	16	1	1	0	4	-0.001	0.000	-0.867	1.981	0	0.033	0.000	0	0.00	0.00	1	2	35.93	0.07	1054.22	1056.07	1	1.85
18941	16	1	1	0	4	-0.003	0.000	-1.100	2.767	0	0.027	0.000	0	0.00	0.00	1	2	36.00	0.00	1056.10	1057.10	3	1.00
18941	16	1	1	0	4	-0.006	0.000	-1.400	5.800	0	0.034	0.000	0	0.00	0.00	1	2	36.00	0.00	1057.13	1057.28	1	0.15
18941	16	1	1	0	4	0.002	0.000	-2.200	2.700	0	0.022	0.000	0	0.00	0.00	1	2	36.00	0.00	1058.01	1058.16	3	0.15
18941	16	1	1	0	4	0.003	0.000	-3.000	1.000	0	0.013	0.000	0	0.00	0.00	1	2	36.00	0.00	1058.19	1058.28	1	0.09
18941	16	1	1	0	4	0.010	0.000	-1.667	1.467	0	0.015	0.000	0	0.00	0.00	1	2	36.00	0.00	1059.01	1059.19	9	0.18
18941	16	1	1	0	4	0.008	0.001	-1.250	5.152	0	0.024	0.000	0	0.00	0.00	1	2	36.04	0.04	1059.22	1062.04	1	2.82
18941	16	1	1	0	4	0.023	0.000	-2.333	2.250	0	0.031	0.000	0	0.00	0.00	1	2	36.00	0.00	1062.07	1063.04	3	0.97
18941	16	1	1	0	4	0.002	0.001	-1.074	13.610	1	0.031	0.000	0	0.00	0.00	1	2	36.00	0.00	1063.07	1065.28	1	2.21
18941	16	1	1	0	4	-0.006	0.000	-0.900	20.100	0	0.021	0.000	0	0.00	0.00	1	2	36.00	0.00	1066.01	1067.01	10	1.00
18941	16	1	1	0	4	0.000	0.001	-1.480	11.010	1	0.025	0.000	0	0.00	0.00	1	2	36.40	1.33	1067.04	1069.19	1	2.15
18941	16	1	1	0	4	-0.012	0.000	-0.222	11.444	0	0.041	0.000	0	0.00	0.00	1	2	36.00	0.00	1069.22	1070.19	2	0.97
18941	16	1	1	0	4	0.001	0.000	-1.105	9.544	0	0.026	0.000	0	0.00	0.00	1	2	37.16	3.25	1070.22	1072.19	1	1.97
18941	16	1	1	0	4	0.025	0.000	-3.250	4.250	0	0.025	0.000	0	0.00	0.00	1	2	36.00	0.00	1072.22	1073.04	4	0.82
18941	16	1	1	0	4	0.011	0.000	-2.375	4.650	0	0.023	0.000	0	0.00	0.00	1	2	38.13	3.98	1073.07	1074.25	1	1.18
18941	16	1	1	0	4	0.004	0.000	-1.600	1.300	0	0.014	0.000	0	0.00	0.00	1	2	37.40	3.80	1074.28	1075.13	2	0.85
18941	16	1	1	0	4	0.018	0.003	-31.385	7074.329	2	0.005	0.029	0	0.00	0.00	1	2	26.06	241.32	1075.16	1084.19	1	9.03
18941	16	1	1	0	4	-0.006	0.000	-2.571	2.286	0	0.010	0.000	0	0.00	0.00	1	2	40.00	0.00	1084.22	1085.13	10	0.91
18941	16	1	1	0	4	-0.017	0.000	-0.778	4.889	0	0.016	0.000	0	0.00	0.00	1	2	40.00	0.00	1085.16	1087.10	1	1.94
18941	16	1	1	0	4	-0.024	0.000	-0.286	4.527	0	0.016	0.000	0	0.00	0.00	1	2	40.00	0.00	1087.13	1088.25	10	1.12
18941	16	1	1	0	4	-0.011	0.000	-9.125	946.952	1	-0.099	0.057	0	0.00	0.00	1	2	19.22	331.08	1088.28	1092.04	1	3.76
18941	16	1	1	0	4	-0.012	0.000	0.333	1.250	0	-0.353	0.043	4	-0.36	0.13	1	2	29.89	89.61	1092.07	1093.04	1	0.97
18941	16	1	1	0	4	-0.009	0.000	0.556	1.528	0	-0.442	0.024	9	-0.48	0.30	1	2	20.67	149.25	1093.07	1094.04	11	0.97
18941	16	1	1	0	4	-0.001	0.000	1.400	0.267	1	-0.290	0.077	10	-0.53	0.33	1	2	9.80	113.29	1094.07	1095.07	1	1.00
18941	16	1	1	0	4	-0.007	0.000	0.333	1.333	0	-0.533	0.000	3	-0.55	0.10	1	2	10.67	30.33	1095.10	1095.19	3	0.09

18941	16	1	1	0	4	0.002	0.000	1.600	0.300	0	-0.168	0.111	5	-0.57	0.17	1	2	3.40	22.30	1095.22	1096.07	11	0.85
18941	16	1	1	0	4	0.041	0.005	-56.600	11552.982	1	0.082	0.008	27	-0.43	0.90	1	2	14.70	123.77	1096.10	1101.10	0	5.00
18941	16	1	1	0	4	0.119	0.009	-172.867	18917.840	0	0.147	0.000	0	0.00	0.00	1	2	10.87	24.27	1101.13	1102.28	3	1.15
18941	16	1	1	0	4	0.125	0.010	-120.000	18879.500	0	0.144	0.000	0	0.00	0.00	1	2	14.23	15.69	1103.01	1104.10	3	1.09
18941	16	1	1	0	4	0.042	0.004	-20.870	2493.937	0	0.107	0.002	0	0.00	0.00	1	2	21.44	29.08	1104.13	1106.22	1	2.09
18941	16	1	1	0	4	0.014	0.001	-1.600	100.933	0	0.120	0.001	0	0.00	0.00	1	2	21.80	6.40	1106.25	1107.25	10	1.00
18941	16	1	1	0	4	0.015	0.000	-1.136	32.790	1	0.073	0.002	0	0.00	0.00	1	2	26.00	7.33	1107.28	1110.04	1	2.76
18941	16	1	1	0	4	0.021	0.000	-2.562	11.196	0	0.054	0.000	0	0.00	0.00	1	2	27.31	2.23	1110.07	1111.25	10	1.18
18941	16	1	1	0	4	0.018	0.000	-1.222	14.194	1	0.053	0.000	0	0.00	0.00	1	2	28.00	0.00	1111.28	1112.25	1	0.97
18941	16	1	1	0	4	0.003	0.000	0.133	24.981	1	0.033	0.001	0	0.00	0.00	1	2	28.80	2.31	1112.28	1114.13	10	1.85
18941	16	1	1	0	4	0.023	0.000	-4.000	2.000	0	0.055	0.000	0	0.00	0.00	1	2	28.00	0.00	1114.16	1114.28	1	0.12
18941	16	1	1	0	4	-0.002	0.001	0.154	47.474	0	0.017	0.001	0	0.00	0.00	1	2	29.08	2.91	1115.01	1116.10	10	1.09
18941	16	1	1	0	2	0.013	0.000	-4.774	56.181	0	0.106	0.003	0	0.00	0.00	1	2	15.45	34.46	231.19	234.22	1	3.03
18941	16	1	1	0	2	0.025	0.000	-6.900	52.989	0	0.083	0.004	0	0.00	0.00	1	2	15.40	1.82	234.25	235.25	3	1.00
18941	16	1	1	0	2	0.014	0.000	-2.619	22.193	1	0.059	0.001	0	0.00	0.00	1	2	23.36	26.19	235.28	240.04	1	4.76
18941	16	1	1	0	2	0.013	0.000	-4.000	7.200	0	0.092	0.000	0	0.00	0.00	1	2	20.00	0.00	240.07	240.25	2	0.18
18941	16	1	1	0	2	0.008	0.000	-4.800	2.200	0	0.094	0.001	0	0.00	0.00	1	2	20.20	0.20	240.28	241.13	1	0.85
18941	16	1	1	0	2	0.010	0.000	-4.667	9.333	0	0.090	0.000	0	0.00	0.00	1	2	20.00	0.00	241.16	241.25	9	0.09
18941	16	1	1	0	2	0.006	0.000	-1.600	33.300	0	0.088	0.001	0	0.00	0.00	1	2	22.00	4.00	241.28	242.13	10	0.85
18941	16	1	1	0	2	0.002	0.000	-1.750	23.929	0	0.070	0.001	0	0.00	0.00	1	2	23.63	1.13	242.16	243.10	1	0.94
18941	16	1	1	0	2	0.000	0.000	-0.250	22.917	0	0.062	0.000	0	0.00	0.00	1	2	24.00	0.00	243.13	243.25	10	0.12
18941	16	1	1	0	2	0.016	0.000	-3.609	5.522	0	0.050	0.000	0	0.00	0.00	1	2	27.70	7.31	243.28	246.07	1	2.79
18941	16	1	1	0	2	0.023	0.000	-3.333	2.333	0	0.063	0.000	0	0.00	0.00	1	2	27.67	0.33	246.10	246.19	10	0.09
18941	16	1	1	0	2	0.016	0.000	-3.111	6.105	1	0.043	0.000	0	0.00	0.00	1	2	29.44	3.56	246.22	248.16	1	1.94
18941	16	1	1	0	2	0.018	0.000	-4.222	6.694	0	0.038	0.000	0	0.00	0.00	1	2	29.00	3.00	248.19	249.16	3	0.97
18941	16	1	1	0	2	0.024	0.000	-5.000	3.250	0	0.040	0.000	0	0.00	0.00	1	2	30.00	4.00	249.19	250.16	1	0.97
18941	16	1	1	0	2	0.020	0.000	-5.143	4.476	0	0.039	0.000	0	0.00	0.00	1	2	31.00	3.00	250.19	251.10	2	0.91
18941	16	1	1	0	2	0.018	0.000	-4.400	4.300	0	0.042	0.000	0	0.00	0.00	1	2	32.00	0.00	251.13	251.28	1	0.15
18941	16	1	1	0	2	0.013	0.000	-4.000	8.667	0	0.040	0.000	0	0.00	0.00	1	2	32.00	0.00	252.01	252.13	2	0.12
18941	16	1	1	0	2	0.005	0.000	-2.294	4.096	0	0.035	0.000	0	0.00	0.00	1	2	32.00	0.00	252.16	254.07	1	1.91
18941	16	1	1	0	2	0.000	0.000	-3.000	4.000	0	0.020	0.000	0	0.00	0.00	1	2	32.00	0.00	254.10	254.25	10	0.15
18941	16	1	1	0	2	-0.002	0.000	-3.400	3.300	0	0.030	0.001	0	0.00	0.00	1	2	32.00	0.00	254.28	255.13	1	0.85
18941	16	1	1	0	2	0.005	0.000	-4.000	2.000	0	0.030	0.000	0	0.00	0.00	1	2	32.00	0.00	255.16	255.28	10	0.12
18941	16	1	1	0	2	0.006	0.000	-1.857	6.542	2	0.012	0.001	0	0.00	0.00	1	2	33.45	5.04	256.01	260.28	1	4.27
18941	16	1	1	0	2	-0.007	0.000	0.167	4.167	0	0.010	0.001	0	0.00	0.00	1	2	36.00	0.00	261.01	261.19	1	0.18
18941	16	1	1	0	2	-0.007	0.000	0.500	3.000	0	-0.002	0.000	0	0.00	0.00	1	2	36.00	0.00	261.22	262.04	10	0.82

18941	16	1	1	0	2	0.007	0.000	-2.708	6.476	0	0.011	0.000	0	0.00	0.00	1	2	34.29	3.96	262.07	264.19	1	2.12
18941	16	1	1	0	2	0.002	0.000	-3.000	2.000	0	0.048	0.000	0	0.00	0.00	1	2	36.00	0.00	264.22	265.07	10	0.85
18941	16	1	1	0	2	0.006	0.000	-1.762	8.290	1	0.008	0.000	0	0.00	0.00	1	2	33.19	3.36	265.10	267.13	1	2.03
18941	16	1	1	0	2	0.006	0.000	-2.889	9.361	0	-0.001	0.000	0	0.00	0.00	1	2	32.22	0.44	267.16	268.13	1	0.97
18941	16	1	1	0	2	0.009	0.000	-1.143	7.229	0	-0.026	0.002	12	-0.03	0.40	1	2	30.86	3.83	268.16	270.19	3	2.03
18941	16	1	1	0	2	-0.018	0.006	24.767	3274.348	3	0.030	0.019	52	-0.12	1.73	1	2	20.16	107.95	270.22	278.01	1	7.79
18941	16	1	1	0	2	0.005	0.000	-1.000	1.333	0	-0.060	0.004	4	-0.01	0.13	1	2	23.75	0.25	278.04	278.16	3	0.12
18941	16	1	1	0	2	0.003	0.000	-0.667	1.333	0	-0.100	0.008	3	-0.10	0.10	1	2	23.33	1.33	278.19	278.28	11	0.09
18941	16	1	1	0	2	-0.015	0.000	6.500	110.333	0	-0.157	0.001	4	-0.13	0.13	1	2	21.50	3.67	279.01	279.13	1	0.12
18941	16	1	1	0	2	-0.035	0.000	17.000	369.333	0	-0.175	0.001	4	-0.18	0.13	1	2	20.00	0.67	279.16	279.28	11	0.12
18941	16	1	1	0	2	-0.068	0.002	47.600	733.300	0	-0.176	0.006	5	-0.20	0.17	1	2	16.60	14.80	280.01	280.16	1	0.15
18941	16	1	1	0	2	-0.073	0.001	59.000	417.000	0	-0.140	0.004	3	-0.21	0.10	1	2	16.00	16.00	280.19	280.28	11	0.09
18941	16	1	1	0	2	-0.040	0.002	56.200	213.700	0	-0.268	0.023	5	-0.11	0.17	1	2	11.40	12.80	281.01	281.16	2	0.15
18941	16	1	1	0	2	0.006	0.001	32.583	294.447	0	-0.063	0.060	12	-0.42	0.40	1	2	3.17	24.15	281.19	282.25	1	1.06
18941	16	1	1	0	2	-0.040	0.012	47.294	5614.335	0	0.115	0.015	15	-0.42	0.50	1	2	13.59	101.77	282.28	286.10	0	3.82
18941	16	1	1	0	2	-0.076	0.018	67.905	8107.491	0	0.158	0.004	0	0.00	0.00	1	2	16.19	42.16	286.13	288.16	2	2.03
18941	16	1	1	0	2	-0.092	0.028	53.462	9585.935	0	0.145	0.001	0	0.00	0.00	1	2	18.08	19.58	288.19	289.28	2	1.09
18941	16	1	1	0	2	-0.006	0.003	-1.143	358.593	0	0.124	0.001	0	0.00	0.00	1	2	22.00	15.23	290.01	291.13	1	1.12
18941	16	1	1	0	2	0.004	0.000	-3.455	22.673	1	0.110	0.001	0	0.00	0.00	1	2	24.00	8.20	291.16	292.19	10	1.03
18941	16	1	1	0	2	-0.002	0.000	0.000	0.000	0	0.108	0.000	0	0.00	0.00	1	2	24.00	0.00	292.22	293.04	1	0.82
18941	16	1	1	0	2	0.006	0.000	-7.118	75.985	0	0.067	0.001	0	0.00	0.00	1	2	27.77	6.07	293.07	294.28	10	1.21
18941	16	1	1	0	2	0.005	0.000	-1.750	5.583	0	0.080	0.000	0	0.00	0.00	1	2	28.00	0.00	295.01	295.13	1	0.12
18941	16	1	1	0	2	0.012	0.001	-9.667	82.424	0	0.055	0.000	0	0.00	0.00	1	2	29.17	3.24	295.16	296.22	10	1.06
18941	16	1	1	0	2	-0.006	0.000	-6.400	8.300	0	0.054	0.000	0	0.00	0.00	1	2	28.00	0.00	296.25	297.10	1	0.85
18941	16	1	1	0	2	0.023	0.001	-16.786	55.258	0	0.045	0.000	0	0.00	0.00	1	2	30.93	3.15	297.13	298.25	10	1.12
18941	16	1	1	0	2	0.043	0.000	-23.500	1.667	0	0.030	0.000	0	0.00	0.00	1	2	32.00	0.00	298.28	299.10	1	0.82
18941	16	1	1	0	2	0.033	0.001	-20.667	5.250	0	0.042	0.000	0	0.00	0.00	1	2	32.00	0.00	299.13	300.10	3	0.97
18941	16	1	1	0	2	0.007	0.000	-19.667	2.333	0	0.043	0.000	0	0.00	0.00	1	2	32.00	0.00	300.13	300.22	1	0.09
18941	16	1	1	0	2	0.036	0.001	-19.600	1.800	0	0.052	0.000	0	0.00	0.00	1	2	32.00	0.00	300.25	301.10	10	0.85
18941	16	1	1	0	2	0.002	0.002	-9.333	132.000	0	0.052	0.000	0	0.00	0.00	1	2	32.00	0.00	301.13	302.10	1	0.97
18941	16	1	1	0	2	0.004	0.004	-3.375	88.839	1	0.061	0.000	0	0.00	0.00	1	2	32.63	1.98	302.13	303.07	10	0.94
18941	16	1	1	0	2	0.001	0.000	-2.957	16.607	1	0.023	0.001	0	0.00	0.00	1	2	35.32	2.14	303.10	308.01	1	4.91
18991	45	2	1	0	2	0.022	0.000	-3.100	1.211	0	0.087	0.001	0	0.00	0.00	1	3	36.20	1.07	568.07	569.07	10	1.00
18991	45	2	1	0	2	0.025	0.000	-3.737	6.871	0	0.064	0.000	0	0.00	0.00	1	3	39.16	6.81	569.10	571.07	1	1.97
18991	45	2	1	0	2	0.030	0.000	-3.500	0.500	0	0.075	0.000	0	0.00	0.00	1	3	37.00	2.00	571.10	571.13	10	0.03
18991	45	2	1	0	2	0.031	0.000	-5.750	9.643	0	0.076	0.000	0	0.00	0.00	1	3	39.63	1.13	571.16	572.10	1	0.94

18991	45	2	1	0	2	0.030	0.000	-7.250	10.917	0	0.075	0.000	0	0.00	0.00	1	3	40.00	0.00	572.13	572.25	10	0.12
18991	45	2	1	0	2	0.019	0.000	-2.720	6.460	1	0.047	0.001	0	0.00	0.00	1	3	42.80	3.33	572.28	575.13	1	2.85
18991	45	2	1	0	2	0.009	0.000	-2.222	1.944	1	0.028	0.000	0	0.00	0.00	1	3	43.67	1.00	575.16	576.13	10	0.97
18991	45	2	1	0	2	0.014	0.000	-2.103	1.453	0	0.042	0.001	0	0.00	0.00	1	3	44.31	1.08	576.16	579.13	1	2.97
18991	45	2	1	0	2	0.032	0.000	-2.000	2.000	0	0.052	0.000	0	0.00	0.00	1	3	44.00	0.00	579.16	579.28	4	0.12
18991	45	2	1	0	2	0.020	0.000	-2.022	2.249	1	0.037	0.001	0	0.00	0.00	1	3	46.38	3.88	580.01	584.16	1	4.15
18991	45	2	1	0	2	0.022	0.000	-2.000	0.400	0	0.030	0.000	0	0.00	0.00	1	3	44.00	0.00	584.19	585.07	3	0.88
18991	45	2	1	0	2	0.022	0.000	-2.200	1.200	0	0.026	0.000	0	0.00	0.00	1	3	44.20	0.20	585.10	585.25	1	0.15
18991	45	2	1	0	2	0.024	0.000	-2.200	0.700	0	0.034	0.000	0	0.00	0.00	1	3	45.20	3.20	585.28	586.13	2	0.85
18991	45	2	1	0	2	0.017	0.000	-2.448	2.756	1	0.028	0.000	0	0.00	0.00	1	3	47.76	0.83	586.16	589.13	1	2.97
18991	45	2	1	0	2	0.012	0.000	-2.000	0.250	0	0.039	0.000	0	0.00	0.00	1	3	48.00	0.00	589.16	590.13	10	0.97
18991	45	2	1	0	2	0.018	0.000	-1.500	1.667	0	0.035	0.000	0	0.00	0.00	1	3	48.00	0.00	590.16	590.28	1	0.12
18991	45	2	1	0	2	0.012	0.000	-2.000	0.444	0	0.025	0.000	0	0.00	0.00	1	3	48.00	0.00	591.01	592.01	10	1.00
18991	45	2	1	0	2	0.017	0.000	-2.909	2.491	0	0.019	0.000	0	0.00	0.00	1	3	48.00	0.00	592.04	593.07	1	1.03
18991	45	2	1	0	2	0.010	0.000	-2.250	0.250	0	0.010	0.000	0	0.00	0.00	1	3	48.00	0.00	593.10	593.22	10	0.12
18991	45	2	1	0	2	0.008	0.000	-3.200	1.700	0	0.010	0.000	0	0.00	0.00	1	3	48.00	0.00	593.25	594.10	1	0.85
18991	45	2	1	0	2	0.028	0.001	-3.556	2.778	0	0.020	0.000	0	0.00	0.00	1	3	48.00	0.00	594.13	595.10	10	0.97
18991	45	2	1	0	2	0.019	0.000	-3.214	1.656	0	0.012	0.000	0	0.00	0.00	1	3	47.54	1.59	595.13	598.07	1	2.94
18991	45	2	1	0	2	0.026	0.000	-4.200	0.200	0	0.000	0.000	0	0.00	0.00	1	3	48.00	0.00	598.10	598.25	10	0.15
18991	45	2	1	0	2	0.018	0.000	-3.647	2.743	0	0.005	0.000	0	0.00	0.00	1	3	47.82	0.53	598.28	600.19	1	1.91
18991	45	2	1	0	2	0.010	0.000	-2.250	1.071	0	0.010	0.000	0	0.00	0.00	1	3	48.00	0.00	600.22	601.16	10	0.94
18991	45	2	1	0	2	0.018	0.000	-2.697	3.655	0	0.016	0.000	0	0.00	0.00	1	3	45.15	3.26	601.19	604.28	1	3.09
18991	45	2	1	0	2	0.021	0.000	-3.200	3.511	0	0.029	0.001	0	0.00	0.00	1	3	44.30	0.90	605.01	606.01	10	1.00
18991	45	2	1	0	2	0.020	0.000	-2.440	3.173	0	0.020	0.000	0	0.00	0.00	1	3	44.00	0.00	606.04	608.19	1	2.15
18991	45	2	1	0	2	0.022	0.000	-2.222	4.444	0	0.017	0.000	0	0.00	0.00	1	3	44.00	0.00	608.22	609.19	10	0.97
18991	45	2	1	0	2	0.018	0.000	-2.368	3.023	0	0.011	0.000	0	0.00	0.00	1	3	44.00	0.00	609.22	611.19	1	1.97
18991	45	2	1	0	2	0.019	0.000	-2.500	2.571	0	0.015	0.000	0	0.00	0.00	1	3	44.00	0.00	611.22	612.16	4	0.94
18991	45	2	1	0	2	0.015	0.000	-2.524	3.662	0	0.015	0.001	0	0.00	0.00	1	3	44.00	0.00	612.19	614.22	1	2.03
18991	45	2	1	0	2	0.020	0.000	-2.222	2.944	0	0.007	0.000	0	0.00	0.00	1	3	44.00	0.00	614.25	615.22	4	0.97
18991	45	2	1	0	2	0.020	0.000	-3.056	3.467	0	0.021	0.001	0	0.00	0.00	1	3	44.00	0.00	615.25	617.19	1	1.94
18991	45	2	1	0	2	0.024	0.000	-4.200	4.200	0	0.040	0.001	0	0.00	0.00	1	3	44.00	0.00	617.22	618.07	4	0.85
18991	45	2	1	0	2	0.023	0.000	-2.967	7.275	1	-0.005	0.013	0	0.00	0.00	1	3	38.73	27.38	618.10	621.10	1	3.00
18991	45	2	1	0	2	0.030	0.000	-2.750	0.917	0	0.018	0.000	0	0.00	0.00	1	3	44.00	0.00	621.13	621.25	10	0.12
18991	45	2	1	0	2	0.023	0.000	-2.500	7.224	1	0.012	0.015	20	-0.34	0.67	1	3	37.20	17.20	621.28	624.28	1	3.00
18991	45	2	1	0	2	0.005	0.000	0.000	12.667	0	0.000	0.003	4	-0.05	0.13	1	3	33.25	3.58	625.01	625.13	1	0.12
18991	45	2	1	0	2	0.016	0.001	-3.100	17.211	0	0.042	0.002	3	-0.04	0.10	1	3	32.70	2.23	625.16	626.16	1	1.00

18991	45	2	1	0	2	0.023	0.001	-2.750	8.250	0	0.060	0.000	0	0.00	0.00	1	3	32.00	0.00	626.19	627.01	4	0.82
18991	45	2	1	0	2	0.030	0.000	-5.750	10.250	0	0.070	0.000	0	0.00	0.00	1	3	32.00	0.00	627.04	627.16	1	0.12
18991	45	2	1	0	2	0.033	0.000	-4.889	2.861	0	0.092	0.002	0	0.00	0.00	1	3	34.78	3.44	627.19	628.16	4	0.97
18991	45	2	1	0	2	0.020	0.000	-2.248	3.768	2	0.035	0.001	0	0.00	0.00	1	3	43.09	5.18	628.19	638.22	1	10.03
18991	45	2	1	0	2	0.026	0.000	-4.200	4.200	0	0.044	0.000	0	0.00	0.00	1	3	44.00	0.00	638.25	639.10	10	0.85
18991	45	2	1	0	2	0.017	0.000	-4.167	0.567	0	0.035	0.000	0	0.00	0.00	1	3	44.00	0.00	639.13	640.01	1	0.88
18991	45	2	1	0	2	0.022	0.000	-2.400	2.933	0	0.046	0.000	0	0.00	0.00	1	3	44.00	0.00	640.04	641.04	10	1.00
18991	45	2	1	0	2	0.024	0.000	-1.400	0.800	0	0.046	0.000	0	0.00	0.00	1	3	44.00	0.00	641.07	641.22	1	0.15
18991	45	2	1	0	2	0.022	0.000	-2.692	4.397	1	0.027	0.000	0	0.00	0.00	1	3	44.00	0.00	641.25	643.04	10	1.79
18991	45	2	1	0	2	0.025	0.000	-3.545	6.873	0	0.023	0.000	0	0.00	0.00	1	3	44.00	0.00	643.07	644.10	1	1.03
18991	45	2	1	0	2	0.030	0.000	-4.000	9.333	0	0.016	0.000	0	0.00	0.00	1	3	44.00	0.00	644.13	645.04	10	0.91
18991	45	2	1	0	2	0.032	0.000	-5.750	2.917	0	0.018	0.000	0	0.00	0.00	1	3	44.00	0.00	645.07	645.19	1	0.12
18991	45	2	1	0	2	0.033	0.000	-6.333	1.333	0	0.010	0.000	0	0.00	0.00	1	3	44.00	0.00	645.22	646.01	10	0.79
18991	45	2	1	0	2	0.014	0.000	-3.444	9.528	0	0.030	0.001	0	0.00	0.00	1	3	44.00	0.00	646.04	647.01	1	0.97
18991	45	2	1	0	2	0.002	0.000	-2.200	2.700	0	0.010	0.000	0	0.00	0.00	1	3	44.00	0.00	647.04	647.19	10	0.15
18991	45	2	1	0	2	0.013	0.000	-1.222	0.944	0	0.038	0.001	0	0.00	0.00	1	3	44.00	0.00	647.22	648.19	1	0.97
18991	45	2	1	0	2	0.017	0.000	-1.000	1.000	0	0.024	0.000	0	0.00	0.00	1	3	44.00	0.00	648.22	649.19	10	0.97
18991	45	2	1	0	2	0.016	0.000	-2.000	1.778	0	0.023	0.000	0	0.00	0.00	1	3	44.00	0.00	649.22	650.22	1	1.00
18991	45	2	1	0	2	0.020	0.000	-1.600	1.800	0	0.020	0.000	0	0.00	0.00	1	3	44.00	0.00	650.25	651.10	10	0.85
18991	45	2	1	0	2	0.020	0.000	-2.438	3.544	1	0.017	0.000	0	0.00	0.00	1	3	43.97	0.03	651.13	654.19	1	3.06
18991	45	2	1	0	3	0.023	0.000	-2.750	1.643	0	0.093	0.000	0	0.00	0.00	1	3	20.88	2.70	306.07	307.01	1	0.94
18991	45	2	1	0	3	0.018	0.000	-3.333	2.667	0	0.090	0.000	0	0.00	0.00	1	3	21.50	3.90	307.04	307.22	10	0.18
18991	45	2	1	0	3	0.030	0.000	-5.462	6.936	0	0.060	0.001	0	0.00	0.00	1	3	23.31	2.23	307.25	309.04	1	1.79
18991	45	2	1	0	3	0.034	0.000	-5.200	5.700	0	0.090	0.000	0	0.00	0.00	1	3	24.00	0.00	309.07	309.22	10	0.15
18991	45	2	1	0	3	0.032	0.000	-6.000	7.333	0	0.065	0.000	0	0.00	0.00	1	3	24.00	0.00	309.25	310.07	1	0.82
18991	45	2	1	0	3	0.038	0.000	-6.059	4.434	0	0.062	0.001	0	0.00	0.00	1	3	25.88	5.36	310.10	312.01	10	1.91
18991	45	2	1	0	3	0.032	0.000	-5.143	4.286	0	0.062	0.001	0	0.00	0.00	1	3	27.14	7.98	312.04	313.16	1	1.12
18991	45	2	1	0	3	0.035	0.000	-4.375	0.554	0	0.071	0.000	0	0.00	0.00	1	3	27.38	2.55	313.19	314.13	10	0.94
18991	45	2	1	0	3	0.024	0.000	-4.000	0.600	0	0.052	0.001	0	0.00	0.00	1	3	29.91	4.09	314.16	315.19	1	1.03
18991	45	2	1	0	3	0.032	0.000	-3.750	1.583	0	0.065	0.001	0	0.00	0.00	1	3	29.25	3.58	315.22	316.04	4	0.82
18991	45	2	1	0	3	0.018	0.000	-3.800	1.200	0	0.034	0.002	0	0.00	0.00	1	3	30.80	3.20	316.07	316.22	1	0.15
18991	45	2	1	0	3	0.023	0.000	-5.273	4.818	0	0.033	0.000	0	0.00	0.00	1	3	32.00	0.00	316.25	317.28	4	1.03
18991	45	2	1	0	3	0.019	0.000	-3.756	7.234	0	0.025	0.001	0	0.00	0.00	1	3	33.78	3.86	318.01	322.16	1	4.15
18991	45	2	1	0	3	0.016	0.000	-2.667	5.500	0	0.042	0.001	0	0.00	0.00	1	3	32.00	0.00	322.19	323.16	4	0.97
18991	45	2	1	0	3	0.014	0.000	-2.244	3.553	2	-0.023	0.007	0	0.00	0.00	1	3	31.82	31.06	323.19	328.04	1	4.85
18991	45	2	1	0	3	0.020	0.000	-1.500	1.667	0	0.035	0.000	0	0.00	0.00	1	3	36.00	0.00	328.07	328.19	2	0.12

18991	45	2	1	0	3	0.016	0.000	-2.400	0.800	0	0.024	0.000	0	0.00	0.00	1	3	36.00	0.00	328.22	329.07	1	0.85
18991	45	2	1	0	3	0.013	0.000	-2.500	4.704	1	-0.037	0.006	1	0.00	0.03	1	3	32.14	21.31	329.10	332.04	1	2.94
18991	45	2	1	0	3	0.021	0.000	-4.000	4.286	0	0.001	0.000	8	-0.02	0.27	1	3	34.63	3.70	332.07	333.01	4	0.94
18991	45	2	1	0	3	0.009	0.000	-2.864	5.266	0	-0.082	0.008	15	-0.03	0.50	1	3	27.68	50.04	333.04	335.10	1	2.06
18991	45	2	1	0	3	0.002	0.001	-3.225	11.384	1	0.028	0.020	91	-0.24	3.03	1	3	23.13	85.14	335.13	345.19	1	10.06
18991	45	2	1	0	3	0.020	0.000	-7.143	17.143	0	0.267	0.007	0	0.00	0.00	1	3	5.00	22.33	345.22	346.13	4	0.91
18991	45	2	1	0	3	0.019	0.000	-5.120	12.110	0	0.156	0.008	0	0.00	0.00	1	3	20.08	65.99	346.16	349.01	1	2.85
18991	45	2	1	0	3	0.016	0.000	-3.529	5.515	0	0.119	0.002	0	0.00	0.00	1	3	23.77	16.32	349.04	350.25	10	1.21
18991	45	2	1	0	3	0.010	0.000	-1.333	0.267	0	0.093	0.000	0	0.00	0.00	1	3	23.50	1.50	350.28	351.16	1	0.88
18991	45	2	1	0	3	0.018	0.000	-3.167	8.697	0	0.088	0.000	0	0.00	0.00	1	3	26.50	3.73	351.19	352.25	10	1.06
18991	45	2	1	0	3	0.008	0.000	-3.000	2.400	0	0.083	0.000	0	0.00	0.00	1	3	27.17	2.57	352.28	353.16	1	0.88
18991	45	2	1	0	3	0.017	0.000	-5.688	5.696	0	0.066	0.001	0	0.00	0.00	1	3	30.06	4.06	353.19	355.07	10	1.88
18991	45	2	1	0	3	0.017	0.000	-6.800	4.400	0	0.062	0.000	0	0.00	0.00	1	3	30.50	3.83	355.10	356.10	1	1.00
18991	45	2	1	0	3	0.006	0.000	-5.714	2.905	0	0.056	0.000	0	0.00	0.00	1	3	31.57	1.29	356.13	357.04	4	0.91
18991	45	2	1	0	3	0.008	0.000	-6.167	4.967	0	0.053	0.000	0	0.00	0.00	1	3	32.00	0.00	357.07	357.25	1	0.18
18991	45	2	1	0	3	0.018	0.000	-7.400	1.800	0	0.052	0.000	0	0.00	0.00	1	3	32.00	0.00	357.28	358.13	4	0.85
18991	45	2	1	0	3	0.022	0.000	-8.600	0.300	0	0.046	0.000	0	0.00	0.00	1	3	32.00	0.00	358.16	359.01	1	0.85
18991	45	2	1	0	3	0.026	0.000	-8.800	1.200	0	0.042	0.001	0	0.00	0.00	1	3	32.00	0.00	359.04	359.19	10	0.15
18991	45	2	1	0	3	0.007	0.001	-5.375	17.125	0	0.041	0.000	0	0.00	0.00	1	3	32.00	0.00	359.22	360.16	4	0.94
18991	45	2	1	0	3	-0.005	0.000	-6.250	7.583	0	0.043	0.001	0	0.00	0.00	1	3	26.93	26.53	361.04	362.16	10	1.12
18991	45	2	1	0	3	-0.018	0.000	-0.929	12.995	1	-0.091	0.038	0	0.00	0.00	1	3	32.00	0.00	362.19	362.22	1	0.03
18991	45	2	1	0	3	-0.040	0.001	4.000	32.000	0	-0.215	0.130	0	0.00	0.00	1	3	24.16	14.47	362.25	364.22	1	1.97
18991	45	2	1	0	3	-0.021	0.000	-1.474	3.708	0	-0.032	0.031	19	-0.54	0.63	1	3	21.25	3.58	364.25	365.07	4	0.82
18991	45	2	1	0	3	-0.023	0.000	0.500	1.667	0	0.007	0.001	4	-0.03	0.13	1	3	25.89	15.15	365.10	367.28	1	2.18
18991	45	2	1	0	3	-0.017	0.000	-0.769	2.585	1	0.070	0.001	0	0.00	0.00	1	3	24.20	0.20	368.01	368.16	4	0.15
18991	45	2	1	0	3	-0.030	0.000	-1.400	2.800	0	0.086	0.000	0	0.00	0.00	1	3	26.00	4.00	368.19	369.10	1	0.91
18991	45	2	1	0	3	-0.033	0.000	-0.429	0.952	0	0.079	0.000	0	0.00	0.00	1	3	26.80	3.20	369.13	369.28	4	0.15
18991	45	2	1	0	3	-0.036	0.000	-0.200	0.700	0	0.078	0.000	0	0.00	0.00	1	3	28.00	0.00	370.01	370.13	1	0.12
18991	45	2	1	0	3	-0.027	0.000	0.500	1.667	0	0.062	0.000	0	0.00	0.00	1	3	28.00	0.00	370.16	371.13	4	0.97
18991	45	2	1	0	3	-0.011	0.000	-0.778	1.944	0	0.076	0.000	0	0.00	0.00	1	3	30.65	3.61	371.16	373.16	1	2.00
18991	45	2	1	0	3	-0.002	0.000	-1.450	1.945	1	0.050	0.001	0	0.00	0.00	1	3	31.80	0.69	373.19	377.04	1	3.85
18991	45	2	1	0	3	-0.004	0.000	-1.114	2.163	0	0.026	0.001	0	0.00	0.00	1	3	32.00	0.00	377.07	378.19	10	1.12
18991	45	2	1	0	3	0.001	0.000	-1.643	2.863	0	0.014	0.000	0	0.00	0.00	1	3	32.00	0.00	378.22	379.04	1	0.82
18991	45	2	1	0	3	0.005	0.000	-1.250	0.250	0	0.013	0.000	0	0.00	0.00	1	3	32.00	0.00	379.07	379.19	4	0.12
18991	45	2	1	0	3	0.000	0.000	-1.000	0.667	0	0.013	0.000	0	0.00	0.00	1	3	32.00	0.00	379.22	382.13	1	2.91
18991	45	2	1	0	3	-0.002	0.000	-0.926	3.302	2	0.011	0.001	0	0.00	0.00	1	3	31.22	2.26	379.22	382.13	1	2.91

18991	45	2	1	0	3	-0.004	0.000	-0.200	0.700	0	0.028	0.000	0	0.00	0.00	1	3	32.00	0.00	382.16	383.01	4	0.85
18991	45	2	1	0	3	-0.007	0.000	-0.250	0.786	0	0.030	0.000	0	0.00	0.00	1	3	32.00	0.00	383.04	383.28	1	0.24
18991	45	2	1	0	3	-0.007	0.000	-1.571	3.495	0	0.011	0.001	0	0.00	0.00	1	3	30.93	2.69	384.01	385.13	1	1.12
18991	45	2	1	0	3	0.000	0.000	-1.250	3.583	0	-0.007	0.001	3	-0.01	0.10	1	3	32.00	0.00	385.16	385.28	10	0.12
18921	16	1	0	0	5	0.015	0.000	-3.300	1.567	0	0.008	0.000	0	0.00	0.00	1	2	36.00	0.00	69.22	70.22	9	1.00
18921	16	1	0	0	5	0.007	0.000	-3.750	5.671	0	0.006	0.000	0	0.00	0.00	1	2	36.00	0.00	70.25	72.25	1	2.00
18921	16	1	0	0	5	0.002	0.000	-3.900	3.433	1	0.010	0.000	0	0.00	0.00	1	2	36.00	0.00	72.28	73.28	11	1.00
18921	16	1	0	0	5	-0.002	0.000	-3.600	6.300	0	0.010	0.000	0	0.00	0.00	1	2	36.00	0.00	74.01	74.16	1	0.15
18921	16	1	0	0	5	0.005	0.000	-4.348	10.601	1	0.007	0.000	0	0.00	0.00	1	2	36.00	0.00	74.19	76.28	10	2.09
18921	16	1	0	0	5	0.020	0.000	-6.200	6.200	0	0.000	0.000	0	0.00	0.00	1	2	36.00	0.00	77.01	77.16	1	0.15
18921	16	1	0	0	5	0.007	0.000	-4.867	12.552	0	0.012	0.000	0	0.00	0.00	1	2	36.00	0.00	77.19	79.04	10	1.85
18921	16	1	0	0	5	0.006	0.000	-5.250	9.071	0	0.016	0.000	0	0.00	0.00	1	2	36.00	0.00	79.07	80.01	1	0.94
18921	16	1	0	0	5	0.001	0.000	-2.067	3.495	0	0.009	0.000	0	0.00	0.00	1	2	34.80	3.31	80.04	81.19	10	1.15
18921	16	1	0	0	5	-0.022	0.005	24.790	3660.993	3	0.015	0.015	42	-0.18	1.40	1	2	13.33	157.83	81.22	89.25	1	8.03
18921	16	1	0	0	5	0.010	0.000	-0.800	2.200	0	-0.162	0.000	5	-0.17	0.17	1	2	18.60	6.80	89.28	90.13	11	0.85
18921	16	1	0	0	5	0.004	0.000	-0.111	1.111	0	-0.137	0.000	9	-0.18	0.30	1	2	13.22	17.94	90.16	91.13	10	0.97
18921	16	1	0	0	5	0.002	0.000	0.000	0.750	0	-0.123	0.000	9	-0.14	0.30	1	2	10.00	14.00	91.16	92.13	1	0.97
18921	16	1	0	0	5	0.000	0.000	0.500	1.667	0	-0.140	0.000	4	-0.14	0.13	1	2	9.50	3.67	92.16	92.28	11	0.12
18921	16	1	0	0	5	0.003	0.000	0.200	0.178	1	-0.082	0.003	10	-0.15	0.33	1	2	5.30	8.23	93.01	94.01	1	1.00
18921	16	1	0	0	5	-0.009	0.004	11.007	2298.008	1	0.035	0.008	74	-0.13	2.47	1	2	23.63	205.46	94.04	108.19	0	14.15
18921	16	1	0	0	5	-0.135	0.006	214.750	127.583	0	0.298	0.000	0	0.00	0.00	1	2	6.50	3.67	108.22	109.04	1	0.82
18921	16	1	0	0	5	-0.087	0.013	57.783	6691.814	0	0.149	0.008	0	0.00	0.00	1	2	20.74	54.38	109.07	111.16	2	2.09
18921	16	1	0	0	5	-0.036	0.008	10.435	1250.348	1	0.087	0.005	0	0.00	0.00	1	2	26.09	23.17	111.19	113.28	1	2.09
18921	16	1	0	0	5	0.026	0.000	-9.200	1.700	0	0.116	0.001	0	0.00	0.00	1	2	26.20	4.20	114.01	114.16	3	0.15
18921	16	1	0	0	5	0.016	0.000	-5.400	12.267	0	0.063	0.001	0	0.00	0.00	1	2	27.70	0.90	114.19	115.19	1	1.00
18921	16	1	0	0	5	0.003	0.000	-4.500	9.389	1	0.037	0.001	0	0.00	0.00	1	2	28.70	2.23	115.22	116.22	9	1.00
18921	16	1	0	0	5	-0.002	0.000	-4.375	6.839	0	0.020	0.000	0	0.00	0.00	1	2	29.25	3.36	116.25	117.19	1	0.94
18921	16	1	0	0	5	0.002	0.000	-5.800	4.200	0	0.014	0.000	0	0.00	0.00	1	2	29.40	3.80	117.22	118.07	10	0.85
18921	16	1	0	0	5	0.000	0.000	-6.167	2.967	0	0.022	0.000	0	0.00	0.00	1	2	30.83	3.37	118.10	118.28	1	0.18
18921	16	1	0	0	5	-0.004	0.000	-8.000	13.500	0	0.022	0.000	0	0.00	0.00	1	2	32.00	0.00	119.01	119.16	10	0.15
18921	16	1	0	0	5	0.017	0.001	-8.103	67.382	0	0.058	0.000	0	0.00	0.00	1	2	33.62	3.60	119.19	122.16	1	2.97
18921	16	1	0	0	5	0.027	0.001	-10.692	80.564	0	0.088	0.000	0	0.00	0.00	1	2	33.08	2.58	122.19	123.28	10	1.09
18921	16	1	0	0	5	0.016	0.001	-4.000	28.154	1	0.056	0.000	0	0.00	0.00	1	2	36.19	7.85	124.01	126.22	1	2.21
18921	16	1	0	0	5	0.006	0.000	-2.600	1.300	0	0.066	0.000	0	0.00	0.00	1	2	34.80	3.20	126.25	127.10	1	0.85
18921	16	1	0	0	5	0.008	0.000	-2.789	9.620	1	0.043	0.000	0	0.00	0.00	1	2	37.74	3.98	127.13	129.10	10	1.97
18921	16	1	0	0	5	0.007	0.000	-2.000	16.500	0	0.043	0.000	0	0.00	0.00	1	2	37.44	3.78	129.13	130.10	1	0.97

18921	16	1	0	0	5	0.017	0.000	-3.750	5.841	0	0.038	0.000	0	0.00	0.00	1	2	38.83	3.24	130.13	131.19	10	1.06
18921	16	1	0	0	5	0.011	0.000	-4.444	3.908	0	0.027	0.000	0	0.00	0.00	1	2	39.94	0.06	131.22	133.16	1	1.94
18921	16	1	0	0	5	0.010	0.000	-4.000	1.667	0	0.030	0.000	0	0.00	0.00	1	2	40.00	0.00	133.19	134.10	10	0.91
18921	16	1	0	0	5	0.012	0.000	-4.182	6.403	0	-0.004	0.001	0	0.00	0.00	1	2	36.33	14.73	134.13	137.22	1	3.09
18921	16	1	0	0	5	0.000	0.000	-3.200	1.700	0	0.006	0.000	0	0.00	0.00	1	2	40.00	0.00	137.25	138.10	3	0.85
18921	16	1	0	0	5	0.013	0.000	-3.667	6.810	0	-0.027	0.001	6	-0.04	0.20	1	2	36.40	10.83	138.13	139.28	1	1.15
18921	16	1	0	0	5	0.017	0.000	-4.091	8.291	0	-0.035	0.001	11	-0.07	0.37	1	2	35.09	8.09	140.01	141.04	10	1.03
18921	16	1	0	0	5	0.000	0.001	-1.708	42.216	0	-0.038	0.003	16	-0.09	0.53	1	2	30.75	11.85	141.07	143.19	1	2.12
18921	16	1	0	0	5	0.007	0.000	-7.333	0.333	0	0.007	0.000	0	0.00	0.00	1	2	32.00	0.00	143.22	144.01	4	0.79
18921	16	1	0	0	5	-0.001	0.001	-2.786	33.566	0	-0.011	0.001	4	0.00	0.13	1	2	30.21	4.03	144.04	145.16	1	1.12
11731	69	3	1	0	6	0.031	0.001	-91.778	4902.444	0	-0.111	0.002	9	-0.14	0.30	1	1	9.33	13.00	727.04	728.01	2	0.97
11731	69	3	1	0	6	0.015	0.000	-59.000	12376.223	0	-0.056	0.007	10	-0.08	0.33	1	1	5.30	16.90	728.04	729.04	3	1.00
11731	69	3	1	0	6	0.007	0.000	164.722	41444.914	1	0.001	0.007	18	-0.16	0.60	1	1	1.50	7.79	729.07	731.01	2	1.94
11731	69	3	1	0	6	-0.007	0.002	111.326	25621.977	0	0.088	0.004	50	-0.02	1.67	1	1	20.20	235.07	731.04	740.01	0	8.97
11731	69	3	1	0	6	-0.032	0.000	436.500	255.000	0	0.192	0.001	0	0.00	0.00	1	1	1.50	3.67	740.04	740.16	2	0.12
11731	69	3	1	0	6	-0.100	0.004	348.714	8038.904	0	0.219	0.000	0	0.00	0.00	1	1	4.71	8.24	740.19	741.10	3	0.91
11731	69	3	1	0	6	-0.109	0.004	201.889	20296.361	0	0.218	0.000	0	0.00	0.00	1	1	9.22	17.94	741.13	742.10	2	0.97
11731	69	3	1	0	6	-0.059	0.007	64.571	9750.571	0	0.182	0.002	0	0.00	0.00	1	1	16.43	31.96	742.13	743.25	1	1.12
11731	69	3	1	0	6	-0.021	0.001	13.875	284.411	0	0.176	0.001	0	0.00	0.00	1	1	17.63	10.84	743.28	744.22	3	0.94
11731	69	3	1	0	6	-0.002	0.000	5.400	61.300	0	0.172	0.001	0	0.00	0.00	1	1	19.00	3.00	744.25	745.10	1	0.85
11731	69	3	1	0	6	0.006	0.000	-1.500	11.545	1	0.107	0.002	0	0.00	0.00	1	1	23.92	9.90	745.13	746.19	10	1.06
11731	69	3	1	0	6	0.006	0.000	-3.071	4.687	0	0.084	0.001	0	0.00	0.00	1	1	26.29	5.60	746.22	748.04	1	1.82
11731	69	3	1	0	6	0.010	0.000	-4.125	2.982	0	0.066	0.000	0	0.00	0.00	1	1	27.25	2.21	748.07	749.01	10	0.94
11731	69	3	1	0	6	0.007	0.000	-4.750	3.583	0	0.068	0.000	0	0.00	0.00	1	1	28.00	0.00	749.04	749.16	1	0.12
11731	69	3	1	0	6	0.007	0.000	-3.333	2.333	0	0.070	0.000	0	0.00	0.00	1	1	28.00	0.00	749.19	749.28	10	0.09
11731	69	3	1	0	6	0.002	0.000	-2.750	2.917	0	0.065	0.000	0	0.00	0.00	1	1	28.00	0.00	750.01	750.13	1	0.12
11731	69	3	1	0	6	0.009	0.000	-1.889	2.111	0	0.070	0.000	0	0.00	0.00	1	1	28.56	1.78	750.16	751.13	10	0.97
11731	69	3	1	0	6	0.009	0.000	-2.148	2.977	1	0.063	0.000	0	0.00	0.00	1	1	32.70	8.91	751.16	754.07	1	2.91
11731	69	3	1	0	6	0.015	0.000	-3.000	3.333	0	0.058	0.000	0	0.00	0.00	1	1	33.00	3.00	754.10	755.19	10	1.09
11731	69	3	1	0	6	0.009	0.000	-3.357	4.863	0	0.057	0.000	0	0.00	0.00	1	1	34.14	3.98	755.22	757.04	1	1.82
11731	69	3	1	0	6	0.013	0.000	-5.500	1.667	0	0.055	0.000	0	0.00	0.00	1	1	33.50	3.67	757.07	757.19	1	0.12
11731	69	3	1	0	6	0.018	0.000	-4.750	0.917	0	0.050	0.000	0	0.00	0.00	1	1	34.50	3.67	757.22	758.04	2	0.82
11731	69	3	1	0	6	0.002	0.000	-2.333	6.706	1	0.057	0.000	0	0.00	0.00	1	1	37.39	3.90	758.07	760.01	1	1.94
11731	69	3	1	0	6	0.002	0.000	-1.500	0.333	0	0.050	0.000	0	0.00	0.00	1	1	36.00	0.00	760.04	760.16	2	0.12
11731	69	3	1	0	6	0.004	0.000	-2.733	7.924	1	0.055	0.000	0	0.00	0.00	1	1	38.53	3.70	760.19	762.04	1	1.85
11731	69	3	1	0	6	0.000	0.000	-2.375	11.982	0	0.060	0.000	0	0.00	0.00	1	1	39.25	2.21	762.07	763.01	13	0.94

11731	69	3	1	0	6	0.007	0.001	-3.667	12.914	0	0.006	0.002	0	0.00	0.00	1	1	38.03	8.03	763.04	766.22	1	3.18
11731	69	3	1	0	6	-0.006	0.001	-1.600	0.800	0	0.022	0.001	0	0.00	0.00	1	1	40.00	0.00	766.25	767.10	2	0.85
11731	69	3	1	0	6	-0.016	0.003	18.041	2717.137	1	0.021	0.018	69	-0.10	2.30	1	1	24.89	208.33	767.13	779.22	1	12.09
11731	69	3	1	0	6	0.002	0.001	-3.800	7.700	0	0.012	0.000	0	0.00	0.00	1	1	32.00	0.00	779.25	780.10	3	0.85
11731	69	3	1	0	6	0.005	0.000	-1.417	4.811	1	0.025	0.001	0	0.00	0.00	1	1	32.00	0.00	780.13	781.19	1	1.06
11731	69	3	1	0	6	0.012	0.000	-0.200	1.700	0	0.038	0.001	0	0.00	0.00	1	1	32.00	0.00	781.22	782.07	10	0.85
11731	69	3	1	0	6	-0.029	0.005	38.629	4574.762	1	0.024	0.031	45	-0.45	1.50	1	1	13.66	146.85	782.10	788.16	1	6.06
11731	69	3	1	0	6	0.001	0.000	-4.300	1894.233	0	-0.076	0.014	10	-0.32	0.33	1	1	3.30	12.90	788.19	789.19	2	1.00
11731	69	3	1	0	6	0.000	0.000	-0.857	2249.810	0	-0.020	0.003	7	-0.11	0.23	1	1	1.57	3.95	789.22	790.13	3	0.91
11731	69	3	1	0	6	-0.036	0.004	38.382	3934.658	0	0.095	0.004	41	-0.03	1.37	1	1	20.27	261.27	790.16	797.10	0	6.94
11731	69	3	1	0	6	-0.023	0.001	108.500	1883.667	0	0.188	0.000	0	0.00	0.00	1	1	4.50	1.00	797.13	797.25	1	0.12
11731	69	3	1	0	6	-0.058	0.002	150.000	1555.333	0	0.185	0.000	0	0.00	0.00	1	1	5.75	4.25	797.28	798.10	3	0.82
11731	69	3	1	0	6	-0.081	0.006	65.852	7183.286	0	0.156	0.000	0	0.00	0.00	1	2	19.78	91.33	798.13	801.04	2	2.91
11731	69	3	1	0	6	-0.058	0.005	24.941	1917.434	0	0.161	0.000	0	0.00	0.00	1	2	22.06	39.93	801.07	802.28	1	1.21
11731	69	3	1	0	6	-0.062	0.002	15.800	242.700	0	0.170	0.000	0	0.00	0.00	1	2	20.40	6.30	803.01	803.16	1	0.15
11731	69	3	1	0	6	-0.043	0.001	11.000	48.000	0	0.163	0.000	0	0.00	0.00	1	2	21.00	3.00	803.19	803.28	3	0.09
11731	69	3	1	0	6	-0.015	0.000	-0.625	21.317	0	0.137	0.001	0	0.00	0.00	1	2	29.69	28.36	804.01	805.19	1	1.18
11731	69	3	1	0	6	-0.020	0.001	-1.000	29.143	0	0.138	0.000	0	0.00	0.00	1	2	30.63	9.70	805.22	806.16	3	0.94
11731	69	3	1	0	6	-0.015	0.001	-1.462	6.769	1	0.114	0.001	0	0.00	0.00	1	2	34.31	10.06	806.19	807.28	1	1.09
11731	69	3	1	0	5	0.014	0.000	-9.818	2.964	0	-0.033	0.003	11	-0.13	0.37	1	2	4.00	0.80	198.22	199.25	3	1.03
11731	69	3	1	0	5	0.014	0.000	-11.000	0.500	0	0.002	0.000	5	0.00	0.17	1	2	4.00	0.00	199.28	200.13	1	0.85
11731	69	3	1	0	5	-0.005	0.001	0.593	446.865	1	0.024	0.011	313	-0.03	10.43	1	2	18.26	337.15	200.16	235.19	0	35.03
11731	69	3	1	0	5	-0.125	0.006	75.737	2022.760	0	0.117	0.004	0	0.00	0.00	1	3	15.90	21.10	235.22	237.19	1	1.97
11731	69	3	1	0	5	-0.046	0.008	22.780	2366.975	0	0.092	0.004	0	0.00	0.00	1	3	26.85	58.68	237.22	241.25	2	4.03
11731	69	3	1	0	5	-0.037	0.001	9.667	1.333	0	0.173	0.000	0	0.00	0.00	1	3	23.00	3.00	241.28	242.07	10	0.79
11731	69	3	1	0	5	-0.020	0.000	7.333	8.333	0	0.170	0.000	0	0.00	0.00	1	3	25.00	3.00	242.10	242.19	1	0.09
11731	69	3	1	0	5	-0.005	0.000	3.250	18.917	0	0.150	0.000	0	0.00	0.00	1	3	26.75	3.58	242.22	243.04	9	0.82
11731	69	3	1	0	5	-0.008	0.001	-1.857	29.055	0	0.058	0.004	0	0.00	0.00	1	3	30.50	3.81	243.07	244.19	10	1.12
11731	69	3	1	0	5	-0.035	0.001	1.000	28.000	0	0.038	0.001	0	0.00	0.00	1	3	31.00	2.80	244.22	245.10	1	0.88
11731	69	3	1	0	5	-0.007	0.001	-3.300	44.456	1	0.020	0.000	0	0.00	0.00	1	3	32.00	0.00	245.13	246.13	2	1.00
11731	69	3	1	0	5	0.001	0.001	-4.686	21.820	0	0.053	0.001	0	0.00	0.00	1	3	37.28	16.76	246.16	251.19	1	5.03
11731	69	3	1	0	5	0.032	0.001	-9.800	17.200	0	0.076	0.000	0	0.00	0.00	1	3	34.00	4.00	251.22	252.07	3	0.85
11731	69	3	1	0	5	-0.003	0.001	-3.403	11.490	1	0.045	0.001	0	0.00	0.00	1	3	41.92	16.31	252.10	258.16	1	6.06
11731	69	3	1	0	5	-0.005	0.000	-3.375	14.707	1	0.038	0.001	4	-0.10	0.13	1	3	43.75	9.30	258.19	263.13	1	4.94
11731	69	3	1	0	5	0.010	0.000	-5.000	2.000	0	0.042	0.000	0	0.00	0.00	1	3	41.40	3.80	263.16	264.01	3	0.85
11731	69	3	1	0	5	-0.005	0.000	-4.750	2.917	0	0.052	0.000	0	0.00	0.00	1	3	42.50	3.67	264.04	264.16	1	0.12

11731	69	3	1	0	5	-0.002	0.000	-3.565	3.185	1	0.029	0.000	0	0.00	0.00	1	3	46.17	4.24	264.19	269.07	1	4.88
11731	69	3	1	0	5	-0.004	0.000	-3.000	2.000	0	0.027	0.000	0	0.00	0.00	1	3	44.00	0.00	269.10	270.01	2	0.91
11731	69	3	1	0	5	-0.002	0.000	-3.497	4.499	2	0.001	0.018	19	-0.14	0.63	1	3	20.71	363.66	270.04	287.07	1	17.03
11731	69	3	1	0	5	0.004	0.000	-3.125	0.982	0	-0.032	0.001	8	-0.08	0.27	1	3	37.75	3.93	287.10	288.04	5	0.94
11731	69	3	1	0	5	-0.002	0.000	-2.725	1.230	0	-0.076	0.030	14	-0.31	0.47	1	3	13.68	254.79	288.07	292.07	1	4.00
11731	69	3	1	0	5	-0.004	0.000	-2.240	0.940	0	-0.124	0.041	25	-0.50	0.83	1	3	6.96	108.87	292.10	294.25	1	2.15
11731	69	3	1	0	5	-0.004	0.000	-2.000	0.750	0	-0.080	0.012	9	-0.29	0.30	1	3	3.11	11.11	294.28	295.25	3	0.97
11731	69	3	1	0	5	-0.001	0.000	-2.214	0.951	0	0.011	0.003	14	-0.10	0.47	1	3	0.71	2.22	295.28	297.10	2	1.82
11731	69	3	1	0	5	-0.004	0.000	-3.917	7.920	0	0.038	0.009	189	0.00	6.30	1	3	14.53	143.21	297.13	318.01	0	20.88
11731	69	3	1	0	5	-0.001	0.000	-4.576	8.057	3	0.048	0.019	11	-0.06	0.37	1	3	14.08	93.01	318.04	326.19	1	8.15
11671	67	3	0	0	5	0.013	0.000	-10.467	3.552	0	0.059	0.000	0	0.00	0.00	1	2	31.07	2.78	87.04	88.19	3	1.15
11671	67	3	0	0	5	0.008	0.000	-10.500	4.056	0	0.055	0.000	0	0.00	0.00	1	2	32.00	0.00	88.22	89.22	1	1.00
11671	67	3	0	0	5	0.002	0.000	-9.750	3.583	0	0.058	0.000	0	0.00	0.00	1	2	32.00	0.00	89.25	90.07	3	0.82
11671	67	3	0	0	5	0.006	0.000	-9.722	4.565	0	0.027	0.000	0	0.00	0.00	1	2	32.00	0.00	90.10	92.04	1	1.94
11671	67	3	0	0	5	0.005	0.000	-9.000	2.000	0	0.027	0.000	0	0.00	0.00	1	2	32.00	0.00	92.07	92.19	10	0.12
11671	67	3	0	0	5	0.012	0.000	-10.000	6.444	0	0.018	0.000	0	0.00	0.00	1	2	32.00	0.00	92.22	93.22	1	1.00
11671	67	3	0	0	5	0.011	0.000	-11.571	5.286	0	0.019	0.000	0	0.00	0.00	1	2	32.00	0.00	93.25	94.16	10	0.91
11671	67	3	0	0	5	0.002	0.000	-10.100	3.878	0	0.014	0.000	0	0.00	0.00	1	2	32.00	0.00	94.19	95.19	1	1.00
11671	67	3	0	0	5	-0.002	0.000	-9.667	2.750	0	0.018	0.000	0	0.00	0.00	1	3	32.00	0.00	95.22	96.19	10	0.97
11671	67	3	0	0	5	0.003	0.000	-11.667	15.250	0	0.007	0.000	0	0.00	0.00	1	3	32.00	0.00	96.22	97.19	1	0.97
11671	67	3	0	0	5	0.014	0.000	-12.556	9.778	0	0.003	0.000	0	0.00	0.00	1	3	32.00	0.00	97.22	98.19	10	0.97
11671	67	3	0	0	5	0.021	0.000	-12.842	34.807	0	-0.065	0.003	0	0.00	0.00	1	3	28.90	15.32	98.22	100.19	1	1.97
11671	67	3	0	0	5	0.035	0.000	-15.100	15.433	0	-0.069	0.001	10	-0.09	0.33	1	3	29.80	6.40	100.22	101.22	4	1.00
11671	67	3	0	0	5	0.007	0.000	-9.800	28.348	1	-0.007	0.014	55	-0.19	1.83	1	3	12.11	93.73	101.25	107.10	1	5.85
11671	67	3	0	0	5	-0.005	0.000	-6.000	4.800	0	-0.135	0.000	6	-0.17	0.20	1	3	13.33	7.87	107.13	108.01	3	0.88
11671	67	3	0	0	5	-0.004	0.000	-7.429	6.725	0	-0.086	0.002	14	-0.14	0.47	1	3	6.79	18.49	108.04	109.16	1	1.12
11671	67	3	0	0	5	-0.006	0.000	-7.500	9.389	0	-0.067	0.002	10	-0.15	0.33	1	3	4.70	3.57	109.19	110.19	3	1.00
11671	67	3	0	0	5	-0.004	0.000	-8.333	3.000	0	-0.043	0.000	9	-0.06	0.30	1	3	3.00	3.00	110.22	111.19	1	0.97
11671	67	3	0	0	5	-0.004	0.000	-9.500	1.167	0	-0.011	0.001	10	-0.05	0.33	1	3	1.70	4.01	111.22	112.22	3	1.00
11671	67	3	0	0	5	-0.003	0.000	-8.333	0.667	0	-0.015	0.001	6	-0.05	0.20	1	3	1.00	2.80	112.25	113.13	1	0.88
11671	67	3	0	0	5	0.009	0.000	-11.829	12.911	0	0.094	0.004	9	-0.06	0.30	1	3	11.77	90.48	113.16	117.01	0	3.85
11671	67	3	0	0	5	0.010	0.000	-16.250	1.357	0	0.177	0.001	0	0.00	0.00	1	3	6.63	12.84	117.04	117.28	3	0.24
11671	67	3	0	0	5	0.006	0.000	-16.000	2.500	0	0.176	0.002	0	0.00	0.00	1	3	7.60	6.30	118.01	118.16	1	0.15
11671	67	3	0	0	5	0.016	0.000	-14.625	1.982	0	0.140	0.000	0	0.00	0.00	1	3	11.50	9.14	118.19	119.13	3	0.94
11671	67	3	0	0	5	0.014	0.000	-11.875	14.650	0	0.109	0.002	0	0.00	0.00	1	3	17.81	23.23	119.16	121.04	1	1.88
11671	67	3	0	0	5	0.010	0.000	-8.250	32.250	0	0.102	0.001	0	0.00	0.00	1	3	16.00	0.00	121.07	121.19	3	0.12

11671	67	3	0	0	5	0.008	0.000	-10.348	7.783	0	0.088	0.001	0	0.00	0.00	1	3	22.70	9.77	121.22	124.01	1	2.79
11671	67	3	0	0	5	0.007	0.000	-11.750	2.786	0	0.060	0.000	0	0.00	0.00	1	3	23.75	0.50	124.04	124.28	10	0.24
11671	67	3	0	0	5	0.010	0.000	-12.250	4.917	0	0.045	0.000	0	0.00	0.00	1	3	24.00	0.00	125.01	125.13	1	0.12
11671	67	3	0	0	5	0.002	0.000	-10.222	3.830	0	0.051	0.000	0	0.00	0.00	1	3	25.39	3.66	125.16	127.10	10	1.94
11671	67	3	0	0	5	-0.004	0.000	-10.462	6.436	0	0.054	0.000	0	0.00	0.00	1	3	25.92	4.08	127.13	128.22	1	1.09
11671	67	3	0	0	5	0.010	0.000	-11.500	1.900	0	0.060	0.000	0	0.00	0.00	1	3	25.67	3.87	128.25	129.13	3	0.88
11671	67	3	0	0	5	0.003	0.000	-10.619	1.948	0	0.031	0.000	0	0.00	0.00	1	3	27.67	1.13	129.16	131.19	1	2.03
11671	67	3	0	0	5	0.001	0.000	-10.222	4.694	0	0.021	0.000	0	0.00	0.00	1	3	28.00	0.00	131.22	132.19	10	0.97
11671	67	3	0	0	5	0.006	0.000	-7.227	48.740	0	0.006	0.010	0	0.00	0.00	1	3	15.94	154.43	132.22	142.13	1	9.91
11671	67	3	0	0	5	0.026	0.006	-10.923	90.077	0	-0.010	0.010	0	0.00	0.00	1	3	31.62	1.26	142.16	143.25	10	1.09
11671	67	3	0	0	5	0.030	0.003	-17.000	316.333	0	0.026	0.004	0	0.00	0.00	1	3	32.00	0.00	143.28	144.19	1	0.91
11671	67	3	0	0	5	0.007	0.000	-8.667	0.333	0	0.077	0.001	0	0.00	0.00	1	3	32.00	0.00	144.22	145.01	10	0.79
11671	67	3	0	0	5	0.023	0.003	-13.857	388.143	0	-0.069	0.015	0	0.00	0.00	1	3	31.00	3.00	145.04	145.25	1	0.21
11671	67	3	0	0	5	0.045	0.005	-20.250	628.917	0	-0.110	0.007	1	-0.06	0.03	1	3	31.25	2.25	145.28	146.10	5	0.82
11671	67	3	0	0	5	-0.007	0.001	-3.000	27.500	0	-0.166	0.002	9	-0.19	0.30	1	3	25.44	25.03	146.13	147.10	1	0.97
11671	67	3	0	0	5	-0.016	0.000	-3.375	39.696	0	-0.142	0.007	8	-0.23	0.27	1	3	22.13	14.70	147.13	148.07	5	0.94
11671	67	3	0	0	5	-0.001	0.000	-7.188	20.696	0	-0.094	0.004	16	-0.23	0.53	1	3	16.50	13.20	148.10	149.28	1	1.18
11671	67	3	0	0	5	0.006	0.000	-10.500	11.714	0	-0.050	0.003	0	0.00	0.00	1	3	16.25	0.50	150.01	150.25	5	0.24
11671	67	3	0	0	5	0.006	0.000	-9.000	5.143	0	-0.072	0.002	7	-0.08	0.23	1	3	15.00	3.43	150.28	151.22	1	0.94
11671	67	3	0	0	5	0.003	0.000	-6.900	2.322	0	-0.094	0.000	10	-0.11	0.33	1	3	12.20	11.73	151.25	152.25	2	1.00
11671	67	3	0	0	5	0.000	0.000	-6.571	3.619	0	-0.079	0.000	7	-0.10	0.23	1	3	10.86	9.14	152.28	153.19	1	0.91
11671	67	3	0	0	5	0.004	0.000	-4.765	1.691	0	-0.052	0.002	17	-0.09	0.57	1	3	5.18	16.03	153.22	155.13	12	1.91
11671	67	3	0	0	5	0.007	0.000	-4.308	1.564	0	-0.040	0.002	13	-0.10	0.43	1	3	3.39	10.26	155.16	156.25	5	1.09
11671	67	3	0	0	5	0.008	0.000	-4.111	0.611	0	-0.028	0.002	9	-0.10	0.30	1	3	2.00	4.00	156.28	157.25	1	0.97
11671	67	3	0	0	5	0.009	0.000	-4.375	1.375	0	0.015	0.000	22	-0.04	0.73	1	3	0.33	1.28	157.28	160.10	5	2.82
11671	67	3	0	0	5	0.007	0.000	-4.467	1.552	0	0.019	0.000	15	0.00	0.50	1	3	0.00	0.00	160.13	161.28	1	1.15
11671	67	3	0	0	5	0.002	0.000	-3.800	0.700	0	0.012	0.000	5	0.00	0.17	1	3	0.00	0.00	162.01	162.16	5	0.15
11671	67	3	0	0	5	0.003	0.000	-4.667	0.333	0	0.010	0.000	3	0.00	0.10	1	3	0.00	0.00	162.19	162.28	1	0.09
11671	67	3	0	0	5	0.012	0.000	-6.865	41.953	0	0.095	0.008	12	0.00	0.40	1	3	12.00	113.67	163.01	166.22	5	3.21
11671	67	3	0	0	5	0.010	0.000	-5.250	2.250	0	0.083	0.008	0	0.00	0.00	1	3	0.00	0.00	166.25	167.07	1	0.82
11671	67	3	0	0	5	0.011	0.000	-2.385	55.923	1	0.190	0.006	0	0.00	0.00	1	3	10.08	56.91	167.10	168.19	2	1.09
11671	67	3	0	0	5	0.005	0.000	4.250	0.917	0	0.255	0.000	0	0.00	0.00	1	3	7.75	10.92	168.22	169.04	1	0.82
11671	67	3	0	0	5	0.013	0.000	-5.800	49.956	0	0.192	0.004	0	0.00	0.00	1	3	15.90	22.10	169.07	170.07	5	1.00
11671	67	3	0	0	5	0.003	0.000	-8.000	27.000	0	0.207	0.002	0	0.00	0.00	1	3	16.00	0.00	170.10	170.19	1	0.09
11671	67	3	0	0	5	0.013	0.000	-10.000	2.000	0	0.172	0.000	0	0.00	0.00	1	3	17.50	3.67	170.22	171.04	10	0.82
11671	67	3	0	0	5	0.013	0.000	-11.234	12.096	0	0.050	0.002	0	0.00	0.00	1	3	25.23	8.14	171.07	175.28	1	4.21

11671	67	3	0	0	5	0.013	0.000	-9.810	10.262	0	0.042	0.000	0	0.00	0.00	1	3	25.19	3.36	176.01	178.04	10	2.03
11701	73	3	0	0	4	0.010	0.000	-37.250	2.250	0	0.010	0.001	0	0.00	0.00	1	3	36.00	0.00	1129.22	1130.04	10	0.82
11701	73	3	0	0	4	0.010	0.000	-37.053	2.942	0	0.009	0.000	0	0.00	0.00	1	3	36.26	0.65	1130.07	1132.04	1	1.97
11701	73	3	0	0	4	0.008	0.000	-36.875	6.114	0	-0.008	0.001	0	0.00	0.00	1	3	35.42	3.38	1132.07	1134.19	10	2.12
11701	73	3	0	0	4	0.018	0.000	-38.600	0.300	0	0.008	0.000	0	0.00	0.00	1	3	36.40	0.80	1134.22	1135.07	1	0.85
11701	73	3	0	0	4	0.011	0.000	-36.471	6.640	0	-0.015	0.001	2	0.00	0.07	1	3	34.71	3.47	1135.10	1137.01	10	1.91
11701	73	3	0	0	4	0.004	0.001	-35.917	15.732	0	-0.006	0.001	24	-0.04	0.80	1	3	32.92	4.43	1137.04	1139.16	1	2.12
11701	73	3	0	0	4	0.000	0.001	-35.600	13.600	0	-0.021	0.001	10	-0.09	0.33	1	3	32.20	0.40	1139.19	1140.19	10	1.00
11701	73	3	0	0	4	0.017	0.001	-37.963	26.191	0	-0.010	0.001	4	-0.06	0.13	1	3	29.07	10.99	1140.22	1143.13	1	2.91
11701	73	3	0	0	4	0.026	0.001	-39.286	24.314	0	-0.011	0.001	7	-0.01	0.23	1	3	27.86	11.03	1143.16	1145.19	1	2.03
11701	73	3	0	0	4	0.025	0.000	-38.875	31.268	0	-0.032	0.002	5	-0.01	0.17	1	3	28.63	1.98	1145.22	1146.16	10	0.94
11701	73	3	0	0	4	0.023	0.001	-38.000	30.800	0	-0.042	0.002	6	-0.08	0.20	1	3	27.83	0.17	1146.19	1147.07	1	0.88
11701	73	3	0	0	4	0.030	0.001	-39.600	50.300	0	-0.038	0.003	5	-0.10	0.17	1	3	27.40	1.80	1147.10	1147.25	2	0.15
11701	73	3	0	0	4	0.046	0.000	-42.600	7.300	0	-0.006	0.000	5	-0.01	0.17	1	3	26.00	4.00	1147.28	1148.13	1	0.85
11701	73	3	0	0	4	0.043	0.000	-44.222	1.694	0	0.000	0.000	7	-0.01	0.23	1	3	24.56	1.78	1148.16	1149.13	2	0.97
11701	73	3	0	0	4	0.037	0.000	-44.400	3.600	0	0.000	0.000	0	0.00	0.00	1	3	24.00	0.00	1149.16	1150.16	1	1.00
11701	73	3	0	0	4	0.045	0.000	-45.364	1.855	0	-0.002	0.000	0	0.00	0.00	1	3	23.91	0.09	1150.19	1151.22	2	1.03
11701	73	3	0	0	4	0.041	0.000	-45.857	0.810	0	-0.001	0.000	0	0.00	0.00	1	3	24.00	0.00	1151.25	1152.16	1	0.91
11701	73	3	0	0	4	0.046	0.000	-46.200	0.200	0	-0.002	0.000	3	0.00	0.10	1	3	24.00	0.00	1152.19	1153.04	2	0.85
11701	73	3	0	0	4	0.054	0.000	-45.000	1.500	0	-0.014	0.001	5	0.00	0.17	1	3	23.60	0.30	1153.07	1153.22	1	0.15
11701	73	3	0	0	4	0.056	0.000	-44.286	4.238	0	-0.067	0.004	7	-0.02	0.23	1	3	22.57	3.29	1153.25	1154.16	10	0.91
11701	73	3	0	0	4	0.052	0.000	-43.600	4.300	0	-0.092	0.003	5	-0.08	0.17	1	3	22.00	3.50	1154.19	1155.04	1	0.85
11701	73	3	0	0	4	0.048	0.000	-41.800	3.700	0	-0.144	0.003	5	-0.09	0.17	1	3	20.40	6.30	1155.07	1155.22	10	0.15
11701	73	3	0	0	4	0.021	0.001	-22.000	630.000	0	-0.150	0.002	7	-0.19	0.23	1	3	16.00	12.00	1155.25	1156.16	1	0.91
11701	73	3	0	0	4	0.004	0.001	25.500	4483.143	0	-0.127	0.003	8	-0.19	0.27	1	3	13.13	7.84	1156.19	1157.13	2	0.94
11701	73	3	0	0	4	-0.001	0.000	199.786	19614.951	0	-0.094	0.001	14	-0.14	0.47	1	3	8.00	13.08	1157.16	1158.28	1	1.12
11701	73	3	0	0	4	0.001	0.000	287.467	5730.981	0	-0.075	0.001	15	-0.15	0.50	1	3	5.13	10.70	1159.01	1160.16	2	1.15
11701	73	3	0	0	4	0.003	0.000	325.500	47.100	0	-0.090	0.000	6	-0.11	0.20	1	3	4.67	2.67	1160.19	1161.07	1	0.88
11701	73	3	0	0	4	0.019	0.000	324.244	9.989	0	0.002	0.002	41	-0.09	1.37	1	3	0.71	2.31	1161.10	1165.13	3	4.03
11701	73	3	0	0	4	0.006	0.004	43.765	50884.562	0	0.035	0.007	95	-0.02	3.17	1	3	6.94	40.12	1165.16	1177.13	0	11.97
11701	73	3	0	0	4	-0.130	0.005	183.250	14767.478	0	0.183	0.002	0	0.00	0.00	1	3	8.92	26.81	1177.16	1178.22	3	1.06
11701	73	3	0	0	4	-0.033	0.008	-83.231	62021.758	0	0.018	0.012	0	0.00	0.00	1	3	9.72	26.89	1178.25	1182.22	2	3.97
11701	73	3	0	0	4	0.024	0.003	-126.200	40601.668	0	-0.016	0.004	39	-0.15	1.30	1	3	7.20	24.76	1182.25	1187.10	1	4.85
11701	73	3	0	0	4	0.047	0.002	-211.667	73981.039	0	-0.003	0.004	19	-0.16	0.63	1	3	4.71	3.51	1187.13	1189.16	3	2.03
11701	73	3	0	0	4	0.066	0.002	-245.000	174355.250	0	0.027	0.001	0	0.00	0.00	1	3	4.00	0.00	1189.19	1190.16	1	0.97
11701	73	3	0	0	4	0.079	0.000	-196.300	140512.031	0.035	0.000	0.000	0	0.00	1.00	3	4	0.00	1190.19	1191.19	2.00	1	

11701	73	3	0	0	1	0.027	0.000	-46.375	11.982	0	0.036	0.001	0	0.00	0.00	2	4	48.00	0.00	743.13	744.07	3	0.94
11701	73	3	0	0	1	0.016	0.000	-44.133	3.304	0	0.013	0.000	0	0.00	0.00	2	4	48.10	0.19	744.10	750.10	1	6.00
11701	73	3	0	0	1	0.017	0.000	-44.111	2.611	0	0.000	0.000	0	0.00	0.00	2	4	48.44	1.03	750.13	751.10	2	0.97
11701	73	3	0	0	1	0.018	0.000	-44.115	3.386	0	0.006	0.000	0	0.00	0.00	2	4	48.19	0.48	751.13	754.01	1	2.88
11701	73	3	0	0	1	0.016	0.000	-43.923	3.410	0	0.007	0.000	0	0.00	0.00	2	4	48.00	0.00	754.04	755.13	3	1.09
11701	73	3	0	0	1	0.014	0.000	-43.500	4.286	0	0.011	0.000	0	0.00	0.00	2	4	48.00	0.00	755.16	756.10	1	0.94
11701	73	3	0	0	1	0.020	0.000	-44.286	5.571	0	0.009	0.000	0	0.00	0.00	2	4	48.00	0.00	756.13	757.04	3	0.91
11701	73	3	0	0	1	0.019	0.000	-44.769	2.859	0	0.016	0.000	0	0.00	0.00	2	4	48.00	0.00	757.07	758.16	1	1.09
11701	73	3	0	0	1	0.014	0.000	-44.300	4.456	0	0.016	0.000	0	0.00	0.00	2	4	48.00	0.00	758.19	759.19	3	1.00
11701	73	3	0	0	1	0.011	0.000	-42.927	9.134	0	0.024	0.000	0	0.00	0.00	2	4	48.02	0.03	759.22	772.01	1	12.79
11701	73	3	0	0	1	0.040	0.001	-44.875	6.125	0	0.009	0.000	0	0.00	0.00	2	4	48.00	0.00	772.04	772.28	10	0.24
11701	73	3	0	0	1	0.038	0.001	-44.000	7.600	0	0.015	0.000	0	0.00	0.00	2	4	48.00	0.00	773.01	773.19	1	0.18
11701	73	3	0	0	1	0.021	0.001	-42.571	11.286	0	0.020	0.000	0	0.00	0.00	2	4	48.00	0.00	773.22	774.13	10	0.91
11701	73	3	0	0	1	0.004	0.000	-40.471	5.832	0	0.038	0.000	0	0.00	0.00	2	4	48.06	0.12	774.16	777.28	1	3.12
11701	73	3	0	0	1	0.018	0.000	-40.400	3.800	0	0.048	0.000	0	0.00	0.00	2	4	48.00	0.00	778.01	778.16	3	0.15
11701	73	3	0	0	1	0.004	0.000	-41.000	3.818	0	0.043	0.000	0	0.00	0.00	2	4	48.13	0.21	778.19	780.28	1	2.09
11701	73	3	0	0	1	0.002	0.000	-42.500	1.100	0	0.047	0.000	0	0.00	0.00	2	4	48.00	0.00	781.01	781.19	3	0.18
11701	73	3	0	0	1	0.004	0.000	-41.545	1.873	0	0.043	0.000	0	0.00	0.00	2	4	48.18	0.36	781.22	782.25	1	1.03
11701	73	3	0	0	1	-0.002	0.000	-41.300	2.011	0	0.044	0.000	0	0.00	0.00	2	4	48.20	0.40	782.28	783.28	2	1.00
11701	73	3	0	0	1	0.013	0.000	-42.824	7.059	0	0.016	0.000	0	0.00	0.00	2	4	48.06	0.12	784.01	787.13	1	3.12
11701	73	3	0	0	1	0.000	0.000	-39.000	2.000	0	0.010	0.000	0	0.00	0.00	2	4	48.00	0.00	787.16	787.22	10	0.06
11701	73	3	0	0	1	0.001	0.000	-41.286	2.571	0	0.004	0.000	0	0.00	0.00	2	4	48.00	0.00	787.25	788.16	1	0.91
11701	73	3	0	0	1	0.017	0.001	-42.600	2.489	0	0.007	0.000	0	0.00	0.00	2	4	48.00	0.00	788.19	789.19	3	1.00
11701	73	3	0	0	1	0.013	0.000	-43.462	6.178	0	0.008	0.000	0	0.00	0.00	2	4	48.00	0.00	789.22	792.10	1	2.88
11701	73	3	0	0	1	0.031	0.000	-44.750	1.071	0	0.005	0.000	0	0.00	0.00	2	4	48.00	0.00	792.13	793.07	3	0.94
11701	73	3	0	0	1	0.017	0.000	-44.833	0.967	0	0.010	0.000	0	0.00	0.00	2	4	48.00	0.00	793.10	793.28	1	0.18
11701	73	3	0	0	1	0.007	0.000	-44.750	4.023	0	0.011	0.000	0	0.00	0.00	2	4	48.00	0.00	794.01	795.07	3	1.06
11701	73	3	0	0	1	0.002	0.000	-44.500	6.286	0	0.010	0.000	0	0.00	0.00	2	4	48.00	0.00	795.10	796.04	1	0.94
11701	73	3	0	0	1	0.000	0.000	-42.818	9.964	0	0.012	0.000	0	0.00	0.00	2	4	48.00	0.00	796.07	797.10	3	1.03
11701	73	3	0	0	1	-0.006	0.000	-40.714	1.905	0	0.011	0.000	0	0.00	0.00	2	4	48.00	0.00	797.13	798.04	1	0.91
11701	73	3	0	0	1	0.004	0.000	-43.378	12.908	0	0.029	0.000	0	0.00	0.00	2	4	48.05	0.11	798.07	801.28	3	3.21
11701	73	3	0	0	1	-0.005	0.001	-42.833	23.367	0	0.042	0.001	0	0.00	0.00	2	4	48.00	0.00	802.01	802.19	4	0.18
11701	73	3	0	0	1	-0.015	0.000	-40.500	0.500	0	0.040	0.000	0	0.00	0.00	2	4	48.00	0.00	802.22	802.28	1	0.06
11701	73	3	0	0	1	-0.017	0.000	-39.333	1.067	0	0.042	0.000	0	0.00	0.00	2	4	48.00	0.00	803.01	803.19	4	0.18
11701	73	3	0	0	1	0.015	0.001	-44.339	8.676	0	0.021	0.000	0	0.00	0.00	2	4	48.22	0.62	803.22	809.19	1	5.97
11701	73	3	0	0	1	0.003	0.000	-43.571	1.952	0	0.017	0.000	0	0.00	0.00	2	4	48.43	0.62	809.22	810.13	2	0.91

11701	73	3	0	0	1	0.006	0.000	-44.875	3.268	0	0.016	0.000	0	0.00	0.00	2	4	48.13	0.13	810.16	811.10	1	0.94
11701	73	3	0	0	1	0.007	0.000	-43.778	2.694	0	0.016	0.000	0	0.00	0.00	2	4	48.00	0.00	811.13	812.10	2	0.97
11701	73	3	0	0	1	0.009	0.000	-43.737	4.316	0	0.015	0.000	0	0.00	0.00	2	4	48.63	1.91	812.13	814.10	1	1.97
11701	73	3	0	0	1	0.013	0.000	-43.250	5.071	0	0.019	0.000	0	0.00	0.00	2	4	48.38	1.13	814.13	815.07	3	0.94
11701	73	3	0	0	1	0.011	0.000	-43.000	3.000	0	0.008	0.000	0	0.00	0.00	2	4	48.91	2.49	815.10	816.13	10	1.03
11701	73	3	0	0	1	0.030	0.000	-45.568	8.809	0	0.011	0.000	0	0.00	0.00	2	4	48.23	0.74	816.16	820.28	1	4.12
19051	68	3	1	0	5	0.009	0.000	93.417	44.629	0	0.071	0.001	0	0.00	0.00	1	1	19.08	2.81	95.07	96.13	2	1.06
19051	68	3	1	0	5	0.035	0.004	42.736	7735.354	0	0.003	0.003	1	0.00	0.03	1	1	14.49	22.22	96.16	101.25	1	5.09
19051	68	3	1	0	5	-0.001	0.000	82.667	157.500	0	-0.052	0.001	9	-0.06	0.30	1	1	18.78	3.44	101.28	102.25	4	0.97
19051	68	3	1	0	5	0.076	0.005	-18.500	10298.869	0	-0.006	0.003	24	-0.10	0.80	1	1	12.88	16.38	102.28	105.10	1	2.82
19051	68	3	1	0	5	0.116	0.005	-71.889	9097.861	0	-0.032	0.001	9	-0.08	0.30	1	1	12.67	2.00	105.13	106.10	3	0.97
19051	68	3	1	0	5	0.123	0.002	-75.500	3553.667	0	-0.027	0.000	4	-0.04	0.13	1	1	12.00	0.00	106.13	106.25	1	0.12
19051	68	3	1	0	5	0.046	0.006	20.273	10700.266	0	-0.001	0.002	7	-0.04	0.23	1	1	9.97	4.09	106.28	110.07	3	3.79
19051	68	3	1	0	5	0.034	0.001	45.429	2765.952	0	0.056	0.001	0	0.00	0.00	1	1	9.86	4.14	110.10	111.01	1	0.91
19051	68	3	1	0	5	0.018	0.000	72.000	610.000	0	0.044	0.001	0	0.00	0.00	1	1	10.60	3.80	111.04	111.19	2	0.15
19051	68	3	1	0	5	-0.004	0.000	94.875	78.650	0	-0.005	0.002	0	0.00	0.00	1	1	10.63	3.45	111.22	113.10	1	1.88
19051	68	3	1	0	5	0.003	0.000	18.185	13103.312	0	-0.016	0.002	17	-0.10	0.57	1	1	7.41	9.79	113.13	116.04	10	2.91
19051	68	3	1	0	5	-0.016	0.000	99.200	16.200	0	0.002	0.000	0	0.00	0.00	1	1	8.00	0.00	116.07	116.22	1	0.15
19051	68	3	1	0	5	0.027	0.002	-69.833	20122.928	0	0.010	0.004	15	-0.08	0.50	1	1	5.79	4.00	116.25	119.07	7	2.82
19051	68	3	1	0	5	-0.005	0.000	33.000	204.667	0	-0.070	0.000	4	-0.08	0.13	1	1	5.75	4.25	119.10	119.22	3	0.12
19051	68	3	1	0	5	0.058	0.003	-124.400	13085.936	1	0.041	0.004	13	-0.09	0.43	1	1	5.60	5.62	119.25	121.25	7	2.00
19051	68	3	1	0	5	0.022	0.003	-11.111	21946.906	0	0.044	0.003	0	0.00	0.00	2	2	11.14	23.27	121.28	125.16	3	3.88
19051	68	3	1	0	5	0.118	0.000	-131.800	10519.700	0	0.102	0.000	0	0.00	0.00	1	2	8.60	1.80	125.19	126.04	4	0.85
19051	68	3	1	0	5	0.120	0.002	-72.000	10208.667	0	0.115	0.000	0	0.00	0.00	1	2	9.25	3.58	126.07	126.19	3	0.12
19051	68	3	1	0	5	0.035	0.004	53.375	5233.982	0	0.097	0.001	0	0.00	0.00	1	2	11.75	5.07	126.22	127.16	1	0.94
19051	68	3	1	0	5	0.007	0.001	86.500	591.000	0	0.112	0.000	0	0.00	0.00	1	2	12.00	0.00	127.19	128.01	2	0.82
19051	68	3	1	0	5	-0.003	0.000	93.667	75.000	0	0.059	0.001	0	0.00	0.00	1	2	14.44	3.78	128.04	129.01	10	0.97
19051	68	3	1	0	5	-0.013	0.000	99.667	42.333	0	0.047	0.000	0	0.00	0.00	1	2	14.67	5.33	129.04	129.13	1	0.09
19051	68	3	1	0	5	0.000	0.000	92.333	64.333	0	0.047	0.000	0	0.00	0.00	1	2	16.00	0.00	129.16	129.25	3	0.09
19051	68	3	1	0	5	-0.012	0.000	94.231	69.692	0	0.005	0.002	0	0.00	0.00	1	2	16.00	0.00	129.28	131.07	1	1.79
19051	68	3	1	0	5	0.000	0.000	91.000	18.000	0	0.020	0.000	0	0.00	0.00	1	2	16.00	0.00	131.10	131.16	3	0.06
19051	68	3	1	0	5	-0.022	0.000	101.600	115.156	0	-0.014	0.002	0	0.00	0.00	1	2	15.60	1.60	131.19	132.19	1	1.00
19051	68	3	1	0	5	-0.027	0.000	102.857	133.143	0	-0.026	0.002	0	0.00	0.00	1	2	15.57	1.29	132.22	133.13	2	0.91
19051	68	3	1	0	5	-0.050	0.000	125.889	478.861	0	-0.023	0.001	9	-0.07	0.30	1	2	13.89	4.11	133.16	134.13	10	0.97
19051	68	3	1	0	5	-0.060	0.000	140.375	444.554	0	-0.007	0.001	8	-0.08	0.27	1	2	12.88	2.70	134.16	135.10	1	0.94
19051	68	3	1	0	5	-0.014	0.005	108.356	3982.371	0	0.017	0.006	6	0.00	0.20	1	2	17.54	20.01	135.13	141.10	2	5.97

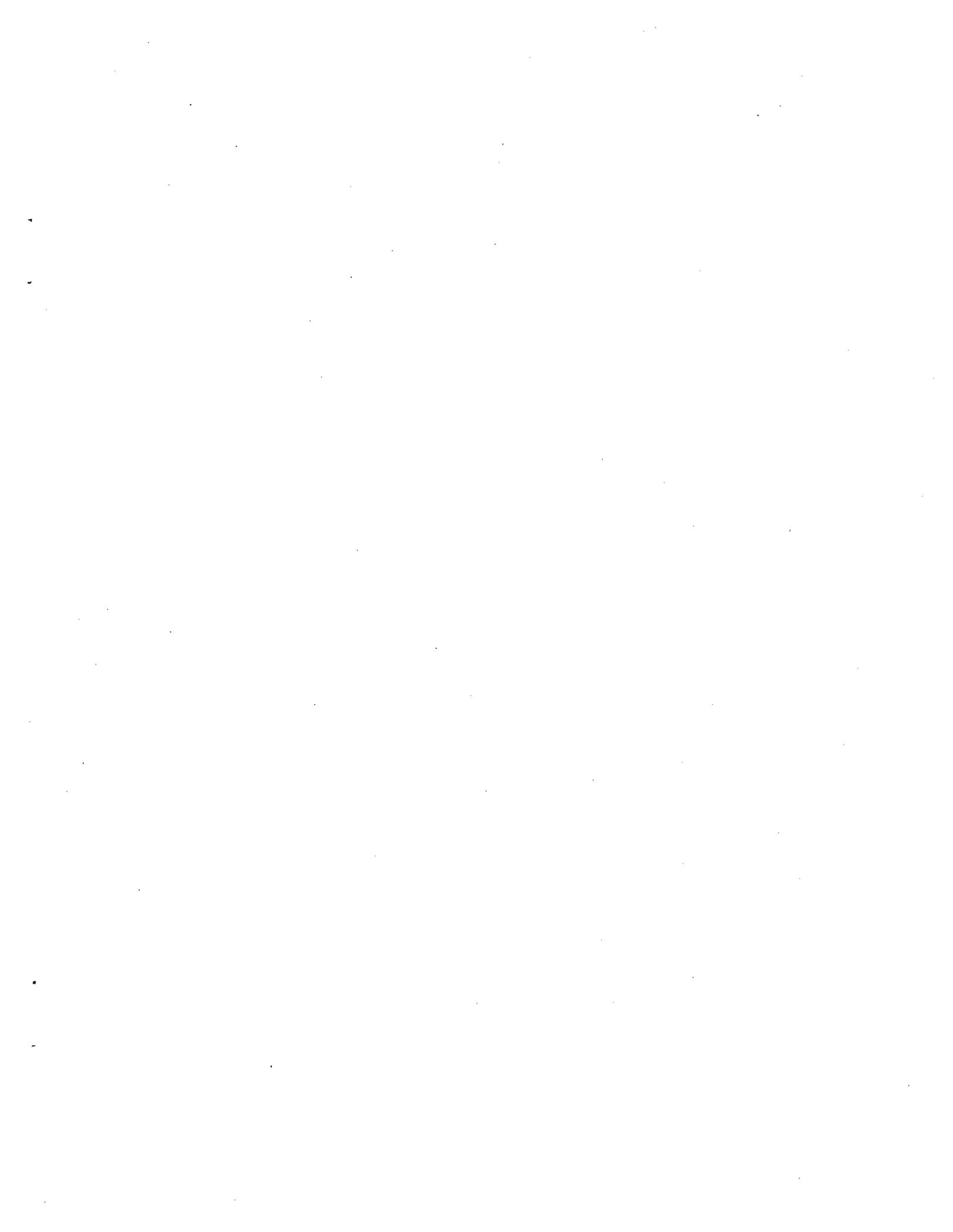
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19051	68	3	1	0	5	-0.021	0.001	97.762	377.191	0	0.065	0.001	0	0.00	0.00	1	2	19.43	10.96	142.04	144.07	10	2.03
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19051	68	3	1	0	5	-0.020	0.000	94.500	3.000	0	0.040	0.000	0	0.00	0.00	1	2	21.75	4.25	147.22	148.04	10	0.82
19051	68	3	1	0	5	-0.014	0.001	93.400	5.800	0	0.040	0.000	0	0.00	0.00	1	2	23.40	1.80	148.07	148.22	3	0.15
19051	68	3	1	0	5	0.006	0.001	89.200	27.314	0	-0.004	0.002	0	0.00	0.00	1	2	23.00	3.00	148.25	150.10	1	1.85
19051	68	3	1	0	5	0.010	0.000	88.900	28.100	0	-0.011	0.001	0	0.00	0.00	1	2	22.90	3.21	150.13	151.13	2	1.00
19051	68	3	1	0	5	0.098	0.007	13.750	8364.456	0	-0.053	0.009	17	-0.06	0.57	1	2	17.88	17.07	151.16	153.28	1	2.12
19051	68	3	1	0	5	0.051	0.001	68.000	318.286	0	-0.052	0.001	8	-0.12	0.27	1	2	18.75	3.36	154.01	154.25	10	0.24
19051	68	3	1	0	5	0.052	0.000	68.800	162.700	0	-0.036	0.001	5	-0.02	0.17	1	2	18.60	3.80	154.28	155.13	10	0.85
19051	68	3	1	0	5	0.110	0.006	-1.130	7298.300	0	-0.006	0.015	23	-0.07	0.77	1	2	13.87	6.57	155.16	157.25	1	2.09
19051	68	3	1	0	5	0.212	0.002	-104.400	7306.300	0	-0.134	0.037	5	-0.01	0.17	1	2	14.40	4.80	157.28	158.13	2	0.85
19051	68	3	1	0	5	0.076	0.007	24.346	8499.916	0	0.027	0.009	11	-0.46	0.37	1	2	13.85	4.06	158.16	161.04	3	2.88
19051	68	3	1	0	5	0.075	0.000	5.500	60.500	0	0.045	0.004	0	0.00	0.00	1	2	12.00	0.00	161.07	161.10	1	0.03
19051	68	3	1	0	5	0.073	0.000	30.000	349.000	0	0.067	0.004	0	0.00	0.00	1	2	12.00	0.00	161.13	161.22	3	0.09
19051	68	3	1	0	5	0.030	0.001	78.529	302.015	0	0.074	0.001	0	0.00	0.00	1	2	14.24	3.94	161.25	163.16	1	1.91
19051	68	3	1	0	5	0.022	0.000	87.615	53.256	0	0.062	0.000	0	0.00	0.00	1	2	15.15	3.31	163.19	164.28	10	1.09
19051	68	3	1	0	5	0.021	0.001	87.000	70.857	0	0.059	0.000	0	0.00	0.00	1	2	16.00	0.00	165.01	165.25	1	0.24
19051	68	3	1	0	5	0.018	0.001	86.400	60.300	0	0.062	0.000	0	0.00	0.00	1	2	16.00	0.00	165.28	166.13	2	0.85
19051	68	3	1	0	5	0.005	0.000	90.750	37.583	0	0.062	0.000	0	0.00	0.00	1	2	16.00	0.00	166.16	166.28	1	0.12
19051	68	3	1	0	5	-0.006	0.000	96.200	30.700	0	0.060	0.000	0	0.00	0.00	1	2	16.40	0.80	167.01	167.16	2	0.15
19051	68	3	1	0	5	-0.015	0.000	100.800	13.511	0	0.053	0.000	0	0.00	0.00	1	2	18.90	3.21	167.19	168.19	1	1.00
19051	68	3	1	0	5	-0.025	0.000	102.750	4.917	0	0.058	0.000	0	0.00	0.00	1	2	19.75	0.25	168.22	169.04	10	0.82
19051	68	3	1	0	5	-0.015	0.000	101.667	10.424	0	0.041	0.000	0	0.00	0.00	1	2	20.00	0.00	169.07	170.13	1	1.06
19051	68	3	1	0	5	-0.018	0.000	101.500	9.611	0	0.030	0.001	0	0.00	0.00	1	2	20.00	0.00	170.16	171.16	10	1.00
19051	68	3	1	0	5	-0.011	0.000	94.100	572.133	0	-0.013	0.005	17	-0.07	0.57	1	2	16.78	30.18	171.19	176.19	1	5.00
19051	68	3	1	0	5	-0.008	0.000	94.846	15.974	0	0.042	0.000	0	0.00	0.00	1	2	20.00	0.00	176.22	178.01	10	1.79
18981	35	2	0	0	1	0.063	0.010	55.073	1780.969	0	0.102	0.013	0	0.00	0.00	1	3	19.59	35.95	288.13	292.16	1	4.03
18981	35	2	0	0	1	-0.020	0.000	87.400	1.300	0	0.058	0.003	0	0.00	0.00	1	3	22.60	3.80	292.19	293.04	2	0.85
18981	35	2	0	0	1	0.067	0.009	60.310	1955.975	0	0.077	0.007	28	-0.05	0.93	1	3	26.05	37.66	293.07	297.13	1	4.06
18981	35	2	0	0	1	0.200	0.005	-4.500	962.091	0	0.038	0.006	9	-0.08	0.30	1	3	20.42	1.36	297.16	298.22	3	1.06
18981	35	2	0	0	1	0.175	0.010	15.083	2350.811	0	0.099	0.005	0	0.00	0.00	1	3	21.50	3.73	298.25	300.01	1	1.76
18981	35	2	0	0	1	0.122	0.011	47.833	1891.606	1	0.153	0.002	0	0.00	0.00	1	3	23.33	8.42	300.04	301.10	3	1.06
18981	35	2	0	0	1	0.108	0.002	55.500	496.333	0	0.157	0.000	0	0.00	0.00	1	4	23.25	2.25	301.13	301.25	1	0.12
18981	35	2	0	0	1	0.048	0.002	71.200	187.700	0	0.172	0.000	0	0.00	0.00	1	4	24.00	0.00	301.28	302.13	2	0.85
18981	35	2	0	0	1	0.028	0.001	85.027	22.027	0	0.121	0.002	0	0.00	0.00	1	4	38.84	79.31	302.16	306.07	1	3.91

18981	35	2	0	0	1	0.031	0.001	86.900	23.656	0	0.124	0.000	0	0.00	0.00	1	4	36.00	9.11	306.10	307.10	10	1.00
18981	35	2	0	0	1	0.017	0.000	89.667	0.333	0	0.127	0.000	0	0.00	0.00	1	4	35.67	0.33	307.13	307.22	1	0.09
18981	35	2	0	0	1	0.052	0.001	81.909	27.891	0	0.114	0.000	0	0.00	0.00	1	4	39.64	8.66	307.25	308.28	10	1.03
18981	35	2	0	0	1	0.042	0.001	81.500	11.500	0	0.104	0.000	0	0.00	0.00	1	4	43.64	13.17	309.01	310.13	1	1.12
18981	35	2	0	0	1	0.055	0.001	79.833	16.967	0	0.097	0.000	0	0.00	0.00	1	4	43.33	5.47	310.16	311.04	2	0.88
18981	35	2	0	0	1	0.031	0.001	83.700	11.789	0	0.094	0.000	0	0.00	0.00	1	4	46.50	4.06	311.07	312.07	1	1.00
18981	35	2	0	0	1	0.016	0.000	85.000	1.000	0	0.094	0.000	0	0.00	0.00	1	4	47.20	1.70	312.10	312.25	2	0.15
18981	35	2	0	0	1	0.010	0.000	85.000	3.333	0	0.087	0.000	0	0.00	0.00	1	4	48.00	0.00	312.28	313.10	1	0.82
18981	35	2	0	0	1	0.014	0.000	86.222	3.444	0	0.080	0.000	0	0.00	0.00	1	4	48.78	2.44	313.13	314.10	2	0.97
18981	35	2	0	0	1	0.017	0.000	86.444	8.732	0	0.055	0.001	0	0.00	0.00	1	4	51.00	2.94	314.13	316.07	1	1.94
18981	35	2	0	0	1	0.013	0.000	88.833	2.167	0	0.052	0.001	0	0.00	0.00	1	4	52.00	0.00	316.10	316.28	2	0.18
18981	35	2	0	0	1	0.010	0.000	89.750	1.583	0	0.070	0.002	0	0.00	0.00	1	4	52.00	0.00	317.01	317.13	1	0.12
18981	35	2	0	0	1	0.018	0.000	89.500	1.000	0	0.045	0.001	0	0.00	0.00	1	4	52.00	0.00	317.16	317.28	2	0.12
18981	35	2	0	0	1	0.023	0.000	85.875	10.125	0	0.039	0.001	0	0.00	0.00	1	4	52.00	0.00	318.01	318.25	1	0.24
18981	35	2	0	0	1	0.023	0.000	86.750	0.250	0	0.047	0.000	0	0.00	0.00	1	4	52.00	0.00	318.28	319.10	2	0.82
18981	35	2	0	0	1	0.061	0.001	82.167	5.912	0	0.022	0.000	0	0.00	0.00	1	4	52.33	0.94	319.13	321.07	1	1.94
18981	35	2	0	0	1	0.072	0.000	80.500	0.333	0	0.020	0.002	0	0.00	0.00	1	4	52.00	0.00	321.10	321.22	2	0.12
18981	35	2	0	0	1	0.079	0.000	81.174	3.514	0	0.017	0.000	0	0.00	0.00	1	4	54.17	3.88	321.25	324.04	1	2.79
18981	35	2	0	0	1	0.089	0.001	81.333	7.500	0	0.016	0.000	0	0.00	0.00	1	4	54.00	3.75	324.07	325.04	2	0.97
18981	35	2	0	0	1	0.097	0.000	83.667	9.333	0	0.007	0.000	0	0.00	0.00	1	4	53.67	2.33	325.07	325.16	1	0.09
18981	35	2	0	0	1	0.105	0.000	81.500	1.667	0	0.013	0.000	0	0.00	0.00	1	4	55.00	0.67	325.19	326.01	2	0.82
18981	35	2	0	0	1	0.087	0.001	80.615	2.756	0	0.018	0.000	0	0.00	0.00	1	4	55.92	0.08	326.04	327.13	1	1.09
18981	35	2	0	0	1	0.093	0.000	80.000	4.000	0	0.020	0.000	0	0.00	0.00	1	4	56.00	0.00	327.16	327.25	10	0.09
18981	35	2	0	0	1	0.070	0.000	81.000	1.143	0	0.020	0.000	0	0.00	0.00	1	4	56.00	0.00	327.28	328.22	1	0.94
18981	35	2	0	0	1	0.052	0.000	81.500	0.333	0	0.020	0.000	0	0.00	0.00	1	4	56.00	0.00	328.25	329.07	10	0.82
18981	35	2	0	0	1	0.061	0.001	82.846	5.974	0	0.012	0.000	0	0.00	0.00	1	4	57.23	3.19	329.10	330.19	1	1.09
18981	35	2	0	0	1	0.078	0.001	81.250	2.917	0	0.020	0.000	0	0.00	0.00	1	4	56.75	2.25	330.22	331.04	2	0.82
18981	35	2	0	0	1	0.038	0.001	86.000	6.000	0	0.014	0.000	0	0.00	0.00	1	4	56.80	2.38	331.07	333.07	1	2.00
18981	35	2	0	0	1	0.045	0.000	86.000	4.667	0	0.007	0.000	0	0.00	0.00	1	4	56.75	2.25	333.10	333.22	2	0.12
18981	35	2	0	0	1	0.022	0.000	87.533	6.838	0	0.019	0.000	0	0.00	0.00	1	4	56.00	0.00	333.25	335.10	1	1.85
18981	35	2	0	0	1	0.032	0.000	87.000	0.667	0	0.005	0.001	0	0.00	0.00	1	4	56.00	0.00	335.13	335.25	10	0.12
18981	35	2	0	0	1	0.023	0.000	87.750	2.500	0	0.024	0.001	0	0.00	0.00	1	4	56.00	0.00	335.28	336.22	1	0.94
18981	35	2	0	0	1	0.025	0.000	87.000	0.667	0	0.020	0.001	0	0.00	0.00	1	4	56.00	0.00	336.25	337.07	2	0.82
18981	35	2	0	0	1	0.004	0.001	89.200	5.067	0	0.033	0.000	0	0.00	0.00	1	4	56.00	0.00	337.10	338.10	1	1.00
18981	35	2	0	0	1	0.013	0.000	91.250	5.583	0	0.032	0.000	0	0.00	0.00	1	4	56.00	0.00	338.13	338.25	2	0.12
18981	35	2	0	0	1	0.007	0.002	88.125	21.554	0	-0.009	0.007	0	0.00	0.00	1	4	56.00	0.00	338.28	339.22	1	0.94

18981	35	2	0	0	1	0.015	0.001	87.800	14.844	0	-0.031	0.007	0	0.00	0.00	1	4	56.00	0.00	339.25	340.25	2	1.00
18981	35	2	0	0	1	0.020	0.001	88.786	15.412	0	0.000	0.009	11	-0.23	0.37	1	4	56.00	0.00	340.28	342.10	1	1.82
18981	35	2	0	0	1	0.007	0.000	88.500	1.667	0	-0.020	0.004	1	-0.10	0.03	1	4	56.00	0.00	342.13	342.25	2	0.12
18981	35	2	0	0	1	0.020	0.001	88.793	11.384	0	0.035	0.001	0	0.00	0.00	1	4	56.38	1.03	342.28	345.25	2	2.97
18981	35	2	0	0	1	-0.024	0.001	92.000	1.714	0	0.058	0.000	0	0.00	0.00	1	4	56.50	0.86	345.28	346.22	1	0.94
18981	35	2	0	0	1	-0.018	0.001	92.000	1.500	0	0.070	0.000	0	0.00	0.00	1	4	56.80	1.70	346.25	347.10	2	0.85
18981	35	2	0	0	1	-0.023	0.000	92.333	1.333	0	0.057	0.000	0	0.00	0.00	1	4	57.33	2.33	347.13	347.22	1	0.09
18981	35	2	0	0	1	-0.002	0.001	91.250	1.583	0	0.047	0.000	0	0.00	0.00	1	4	57.75	2.25	347.25	348.07	2	0.82
18981	35	2	0	0	1	0.000	0.000	90.500	0.500	0	0.045	0.000	0	0.00	0.00	1	4	57.00	2.00	348.10	348.16	1	0.06
18981	35	2	0	0	1	0.030	0.001	88.667	10.333	0	0.033	0.000	0	0.00	0.00	1	4	58.33	4.33	348.19	348.28	2	0.09
18981	35	2	0	0	1	0.047	0.000	87.000	8.000	0	0.018	0.000	0	0.00	0.00	1	4	58.00	3.33	349.01	349.13	4	0.12
18981	35	2	0	0	1	0.058	0.000	84.750	2.917	0	0.010	0.000	0	0.00	0.00	1	4	56.75	2.25	349.16	349.28	1	0.12
18981	35	2	0	0	1	0.065	0.000	84.500	1.667	0	0.000	0.000	0	0.00	0.00	1	4	56.00	0.00	350.01	350.13	2	0.12
18981	35	2	0	0	1	0.025	0.001	88.290	11.146	0	0.011	0.001	0	0.00	0.00	1	4	56.00	0.00	350.16	353.19	1	3.03
18981	35	2	0	0	1	0.048	0.000	86.800	0.700	0	0.020	0.000	0	0.00	0.00	1	4	56.00	0.00	353.22	354.07	2	0.85
18981	35	2	0	0	1	0.045	0.000	87.750	1.929	0	0.032	0.000	0	0.00	0.00	1	4	56.00	0.00	354.10	355.04	1	0.94
18981	35	2	0	0	1	0.050	0.000	88.000	0.667	0	0.040	0.001	0	0.00	0.00	1	4	56.00	0.00	355.07	355.19	2	0.12
18981	35	2	0	0	1	0.016	0.001	88.929	6.071	0	0.012	0.001	0	0.00	0.00	1	4	56.00	0.00	355.22	357.04	1	1.82
18981	35	2	0	0	1	0.004	0.001	91.235	10.941	0	0.005	0.001	0	0.00	0.00	1	4	56.00	0.00	357.07	358.28	9	1.21
18981	35	2	0	0	1	-0.013	0.000	92.947	3.608	0	0.010	0.001	0	0.00	0.00	1	4	56.00	0.00	359.01	360.28	1	1.27
18981	35	2	0	0	1	-0.018	0.000	94.000	1.500	0	0.024	0.000	0	0.00	0.00	1	4	56.00	0.00	361.01	361.16	2	0.15
18981	35	2	0	0	1	-0.013	0.000	94.000	0.000	0	0.020	0.000	0	0.00	0.00	1	4	56.00	0.00	361.19	362.01	1	0.82
18981	35	2	0	0	4	0.206	0.004	-85.667	3599.250	0	0.043	0.007	0	0.00	0.00	1	2	13.11	2.86	1051.19	1052.16	1	0.97
18981	35	2	0	0	4	0.191	0.006	-89.111	6639.611	0	0.092	0.008	0	0.00	0.00	1	2	13.56	4.53	1052.19	1053.16	2	0.97
18981	35	2	0	0	4	0.235	0.006	-84.750	3944.250	0	0.120	0.003	0	0.00	0.00	1	2	12.75	2.25	1053.19	1054.01	3	0.82
18981	35	2	0	0	4	0.028	0.005	69.926	1928.225	1	0.082	0.007	0	0.00	0.00	1	2	22.22	20.56	1054.04	1056.25	1	2.21
18981	35	2	0	0	4	0.007	0.000	85.750	10.917	0	0.157	0.000	0	0.00	0.00	1	2	21.75	4.25	1056.28	1057.10	9	0.82
18981	35	2	0	0	4	-0.009	0.000	89.941	5.934	0	0.046	0.006	0	0.00	0.00	1	2	24.94	3.93	1057.13	1059.04	1	1.91
18981	35	2	0	0	4	-0.006	0.000	90.241	4.118	0	0.032	0.003	15	-0.10	0.50	1	2	26.24	3.90	1059.07	1062.04	10	2.97
18981	35	2	0	0	4	-0.025	0.000	91.500	1.000	0	0.015	0.000	0	0.00	0.00	1	2	24.00	0.00	1062.07	1062.19	1	0.12
18981	35	2	0	0	4	-0.004	0.000	90.929	2.687	0	0.071	0.001	0	0.00	0.00	1	2	25.57	4.26	1062.22	1064.04	10	1.82
18981	35	2	0	0	4	0.003	0.000	91.286	2.238	0	0.083	0.000	0	0.00	0.00	1	2	25.00	3.00	1064.07	1064.28	1	0.21
18981	35	2	0	0	4	0.006	0.000	89.400	4.933	0	0.071	0.000	0	0.00	0.00	1	2	26.90	4.32	1065.01	1066.01	10	1.00
18981	35	2	0	0	4	0.008	0.000	88.721	3.873	0	0.019	0.004	0	0.00	0.00	1	2	25.49	8.92	1066.04	1070.13	1	4.09
18981	35	2	0	0	4	0.018	0.000	89.500	1.000	0	0.023	0.000	0	0.00	0.00	1	2	28.00	0.00	1070.16	1070.28	2	0.12
18981	35	2	0	0	4	0.013	0.000	88.250	1.643	0	0.014	0.000	0	0.00	0.00	1	2	28.00	0.00	1071.01	1071.25	1	0.24

18981	35	2	0	0	4	0.002	0.000	88.250	0.250	0	0.018	0.000	0	0.00	0.00	1	2	28.00	0.00	1071.28	1072.10	2	0.82
18981	35	2	0	0	4	0.006	0.000	88.400	1.600	0	-0.006	0.000	2	0.00	0.07	1	2	27.00	2.89	1072.13	1073.13	1	1.00
18981	35	2	0	0	4	0.012	0.000	89.462	4.269	0	-0.023	0.003	13	-0.04	0.43	1	2	25.46	3.77	1073.16	1074.25	2	1.09
18981	35	2	0	0	4	0.010	0.000	88.778	4.194	0	-0.029	0.004	4	-0.05	0.13	1	2	24.56	1.78	1074.28	1075.25	1	0.97
18981	35	2	0	0	4	0.009	0.000	89.000	8.471	0	0.022	0.005	2	-0.02	0.07	1	2	22.56	3.56	1075.28	1077.22	2	1.94
18981	35	2	0	0	4	0.006	0.000	89.308	7.897	0	0.017	0.010	10	-0.16	0.33	1	2	21.85	3.81	1077.25	1079.04	1	1.79
18981	35	2	0	0	4	0.000	0.000	88.000	4.889	0	0.071	0.002	0	0.00	0.00	1	2	21.30	3.57	1079.07	1080.07	2	1.00
18981	35	2	0	0	4	0.002	0.000	88.826	5.925	0	0.040	0.002	0	0.00	0.00	1	2	29.37	15.22	1080.10	1084.28	1	4.18
18981	35	2	0	0	4	0.003	0.000	90.143	3.055	0	0.050	0.000	0	0.00	0.00	1	2	30.43	3.34	1085.01	1086.13	2	1.12
18981	35	2	0	0	4	0.005	0.000	89.875	3.554	0	0.045	0.000	0	0.00	0.00	1	2	31.25	1.93	1086.16	1087.10	1	0.94
18981	35	2	0	0	4	0.004	0.000	88.684	6.117	0	0.017	0.001	0	0.00	0.00	1	2	31.63	1.02	1087.13	1089.10	1	1.97
18981	35	2	0	0	4	-0.001	0.000	89.778	1.194	0	0.010	0.000	0	0.00	0.00	1	2	32.00	0.00	1089.13	1090.10	10	0.97
18981	35	2	0	0	4	0.005	0.000	87.273	8.218	0	0.005	0.000	0	0.00	0.00	1	2	32.00	0.00	1090.13	1091.16	1	1.03
18981	35	2	0	0	4	0.005	0.001	88.750	0.917	0	0.000	0.000	0	0.00	0.00	1	2	32.00	0.00	1091.19	1092.01	2	0.82
18981	35	2	0	0	4	0.015	0.000	86.500	11.000	0	0.000	0.000	0	0.00	0.00	1	2	32.00	0.00	1092.04	1092.16	1	0.12
18981	35	2	0	0	4	-0.003	0.000	88.167	8.333	0	0.013	0.000	0	0.00	0.00	1	2	32.00	0.00	1092.19	1093.25	10	1.06
18981	35	2	0	0	4	-0.010	0.001	86.500	8.333	0	0.023	0.000	0	0.00	0.00	1	2	32.00	0.00	1093.28	1094.10	1	0.82
18981	35	2	0	0	4	-0.013	0.000	87.667	4.333	0	0.003	0.001	0	0.00	0.00	1	2	32.00	0.00	1094.13	1094.22	2	0.09
18981	35	2	0	0	4	-0.007	0.000	90.444	6.528	0	-0.004	0.001	0	0.00	0.00	1	2	32.00	0.00	1094.25	1095.22	10	0.97
18981	35	2	0	0	4	0.001	0.000	90.778	2.444	0	0.002	0.001	0	0.00	0.00	1	2	32.00	0.00	1095.25	1096.22	1	0.97
18981	35	2	0	0	4	-0.013	0.000	91.393	3.655	0	-0.112	0.046	21	-0.06	0.70	1	2	13.00	201.70	1096.25	1099.19	2	2.94
18981	35	2	0	0	4	-0.021	0.001	91.000	2.000	0	-0.399	0.038	7	-0.47	0.23	1	2	16.88	95.55	1099.22	1100.16	1	0.94
18981	35	2	0	0	4	-0.050	0.001	90.000	3.000	0	-0.553	0.001	3	-0.52	0.10	1	2	18.67	10.33	1100.19	1100.28	2	0.09
18981	35	2	0	0	4	-0.021	0.000	91.375	3.411	0	-0.259	0.077	8	-0.58	0.27	1	2	6.38	60.84	1101.01	1101.25	2	0.24
18981	35	2	0	0	4	-0.001	0.000	91.103	4.117	0	0.056	0.010	74	-0.51	2.47	1	2	18.86	162.80	1101.28	1110.19	0	8.91
18981	35	2	0	0	4	0.002	0.000	91.261	3.838	0	0.163	0.003	0	0.00	0.00	1	2	16.48	59.35	1110.22	1113.01	2	2.79
18981	35	2	0	0	4	-0.002	0.000	91.600	3.156	0	0.156	0.001	0	0.00	0.00	1	2	17.20	11.07	1113.04	1114.04	1	1.00
18981	35	2	0	0	4	-0.010	0.000	92.750	3.583	0	0.155	0.000	0	0.00	0.00	1	2	18.25	4.25	1114.07	1114.19	4	0.12
18981	35	2	0	0	4	0.001	0.000	91.900	3.878	0	0.135	0.000	0	0.00	0.00	1	2	21.20	5.73	1114.22	1115.22	1	1.00
18981	35	2	0	0	4	0.005	0.000	92.625	3.411	0	0.124	0.000	0	0.00	0.00	1	2	22.25	3.93	1115.25	1116.19	2	0.94
18981	35	2	0	0	4	-0.002	0.000	93.000	4.000	0	0.127	0.000	0	0.00	0.00	1	2	22.75	3.58	1116.22	1117.04	1	0.82
18981	35	2	0	0	4	0.005	0.000	92.750	4.250	0	0.127	0.000	0	0.00	0.00	1	2	24.00	0.00	1117.07	1117.19	2	0.12
18981	35	2	0	0	4	0.000	0.000	92.067	3.099	0	0.047	0.001	0	0.00	0.00	1	2	27.53	2.33	1117.22	1120.22	1	3.00
18981	35	2	0	0	4	-0.012	0.000	91.889	8.861	0	0.036	0.001	0	0.00	0.00	1	2	28.00	0.00	1120.25	1121.22	4	0.97
18981	35	2	0	0	4	-0.005	0.001	91.636	5.255	0	0.026	0.001	0	0.00	0.00	1	2	28.00	0.00	1121.25	1122.28	1	1.03
18981	35	2	0	0	4	0.003	0.000	91.444	4.778	0	0.029	0.001	0	0.00	0.00	1	2	28.00	0.00	1123.01	1123.28	10	0.27

18981	35	2	0	0	4	0.001	0.000	92.667	1.750	0	0.030	0.001	0	0.00	0.00	1	2	28.00	0.00	1124.01	1124.28	1	0.27
18981	35	2	0	0	4	0.001	0.000	92.375	1.696	0	0.032	0.000	0	0.00	0.00	1	2	28.00	0.00	1125.01	1125.25	10	0.24
18981	35	2	0	0	4	-0.004	0.000	92.400	1.800	0	0.040	0.000	0	0.00	0.00	1	2	28.00	0.00	1125.28	1126.13	1	0.85
18981	35	2	0	0	4	-0.002	0.000	91.750	0.917	0	0.025	0.001	0	0.00	0.00	1	2	28.00	0.00	1126.16	1126.28	4	0.12



APPENDIX B
NEAR-MISS VIDEO SUMMARIES

NEAR-MISS VIDEO SUMMARIES

VARIABLE EXPLANATIONS

TRAVTEK RATING NUMBER: Original TravTek Severity Rating (See Dingus et al., 1995).

SUBJECT NUMBER: Original TravTek Subject Number.

DRIVE NUMBER: Order position that condition was driven (1 = first; 6 = last).

DISPLAY NUMBER: 1 = TravTek turn-by-turn w/voice; 2 = TravTek turn-by-turn w/o voice; 3 = TravTek route map w/voice; 4 = TravTek route map w/o voice; 5 = Paper direction list; 6 = Paper map.

TIME STAMP: Time stamp on videotape.

NEAR-MISS TYPE: Near-Miss Classification Label from Original TravTek Data

Trav. Rating No.	Sub. No.	Drive No.	Disp. No.	Time Stamp	Near-Miss Type	
25	11711	6	6	32.08	Corner	Inappropriate u-turn. Lane deviation to the left results into traffic lane.
64	11701	2	4	19.49.33	Corner	Driver turns right onto road, but goes in left lane and slows down looking at display. A car going in the same direction passes on the right hand side. No approaching cars in left lane.
86	19051	3	5	02.37.87	Corner Lane Deviation	Driver going around corner and veers into lane going opposite direction. a car is approaching from the opposite direction.
37	19021	5	6	34.51.87	Lane Deviation	Deviates to the right and goes over curb.
39	19031	4	3	16.36.60	Lane deviation	Driver on highway and trying to get into left lane. Lane deviation on right into shoulder.
49	11671	3	5	02.23.63	Lane Deviation	Driver is attempting to get over into left lane and had to veer right to miss a car in left lane.
60	11741	6	3	18.18.00	Lane Deviation	Driver is looking at display and runs off the road to the right.
71	18921	6	5	02.05.07	Lane Deviation	Driver is looking at display and comes within inches of crosses the center double line.
27	11491	6	1	06.37.70	Lane Change	Driver makes a lane change into right lane when a car is in right lane. Glanced in correct location prior to maneuver to get over into other lane.

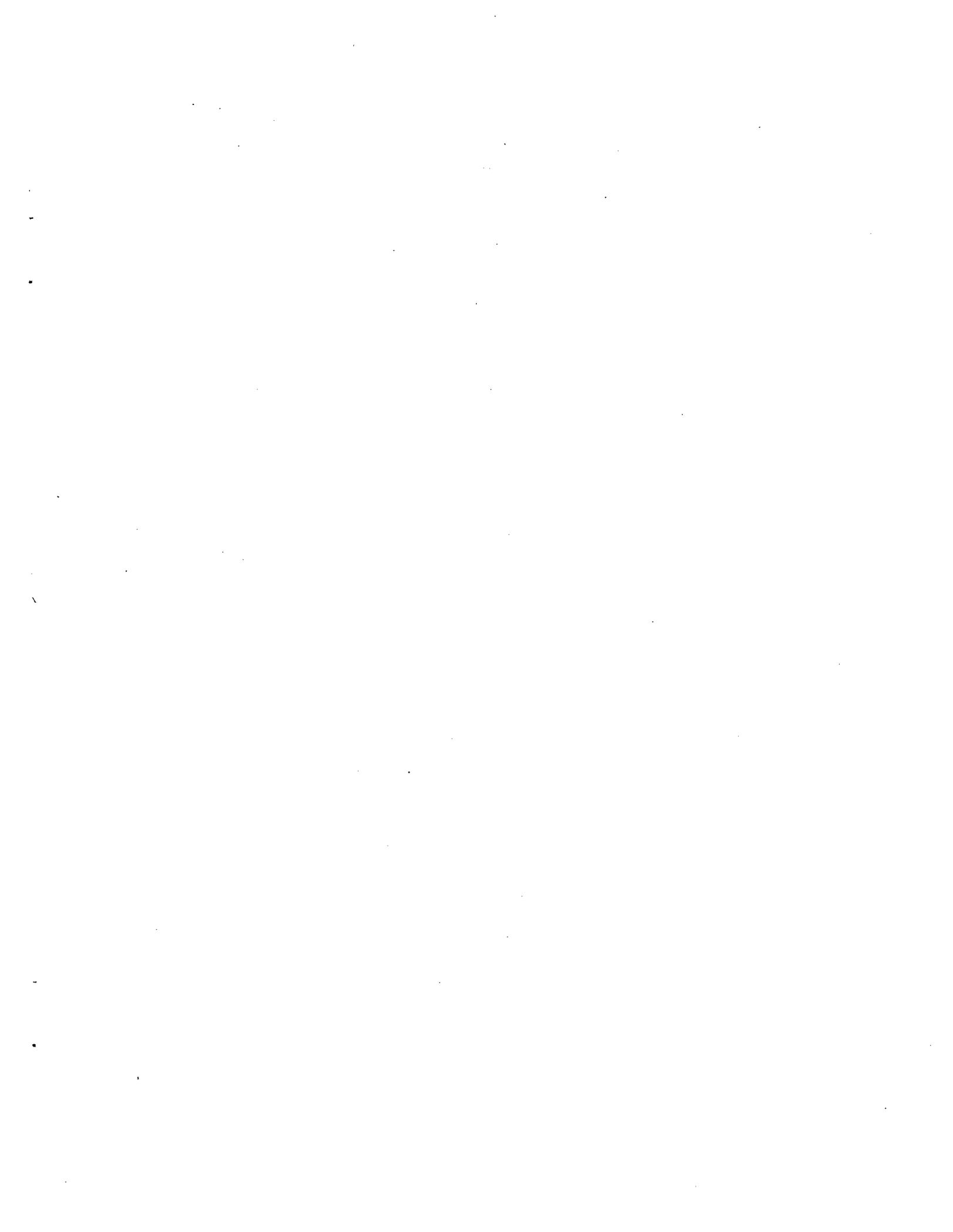
39	19031	4	3	13.45.60	Lane Change	Driver is on highway and needs to exit. She drives across the area between the exit ramp and highway. It's raining.
81	11701	3	1	13.18.87	Lane Change	Driver tries to move into right hand lane, but a car is present going the same direction.
37	11661	1	4	07.45.23	Merge/ Lane Change	Driver is driving while talking about his route. He tries to get into left turn lane, but there's a car overtaking him there. Driver lets the car pass and then gets over. Experimenter says "watch it"
35	11681	1	6	36.45.00	Inter-section	Driver is turning left across traffic. Car ahead is turning left. Driver follows first car, but traffic is approaching from opposite direction.
39	11471	6	6	20.39.60	Inter-section	Driver pulls up too fast toward stopped cars at intersection.
44	19021	4	1	14.49	Inter-section Freeway off Ramp	Driver ran onto shoulder on off ramp. Indecision about turn correctness. Comes to a stop in emergency lane trying to re-enter freeway.
44	11661	1	4	21.43.80	Error at Inter-section	Driver is exiting highway and in the wrong turning lane. Driver needs to go left, but in right lane. He starts to move over, but another car is in left lane, so he moves back into his lane and lets the car go.
72	11621	2	4	23.12.60	Inter-section	Driver ran stop sign while looking ahead as well as to right. Possibly looking for a street sign.
45	18991	1	2	10.25.70	External Event	Another car encroaches half way into driver's lane.
33	16681	6	4	17.19.80	Braking	Driver stops in middle of intersection. Driver started to veer right at fork, but then stopped in middle of intersection and went left. Inattention of need to yield for traffic. Experimenter says "watch it"

40	18991	2	3	06.03.00	Braking	Driver was describing her plan and looking at display when car in front put on brakes. Experimenter had to say "watch out". Straight road.
40	18981	2	1	05.42.00	Braking	Doesn't appear to be a true near miss. Car in front brakes, but it doesn't seem to be a problem.
41	18941	6	2	04.40.80	Braking	While braking for a turn braking - driver almost turns left into an coming car.
41	11711	4	1	24.10.80	Braking	While lancing between road and display, driver almost drives by a toll booth without stopping. The booth also has a red flashing light. Experimenter has to say toll booth and the driver stops.
42	18901	4	4	18.45.00	Braking	Driver switches to right lane directly behind a tanker truck. The truck puts on brakes. Driver has to also put on brakes. Tight headway.
42	11531	5	4	14.19.86	Braking	Driver on on-ramp trying to find a space to merge on highway and runs part of the car onto the shoulder.
42	11531	6	1	08.37.80	Braking	Driver is exiting highway and ramp turns into 2 lanes. Driver straddles both lanes and then moves into left lane.
43	11661	1	4	12.46.80	Braking	Driver is talking about his route. Car in front up ahead applies brakes and driver is slow to react. Driver presses hard on the brake. Driver was looking to the right and left, not center of roadway.
47	16311	5	1	16.58.80	Braking	Tape is blank. Experimenter writes "late reaction to slow traffic. Brakes to slower speed. Driving listening to voice."
	18941	2	4	18.15.00	Braking	Driver almost runs stop sign. She says she saw the sign right as Experimenter was saying "stop sign". Can see her glancing at sign as well.

51	19051	5	3	22.00.00	Braking	Driver almost ran red light. Driver is looking at roadway but not up at light. TravTek is giving directions. No cars are crossing intersection.
51	11731	2	6	13.07.80	Braking	Driver almost ran red light. Experimenter says red light. Experimenter had just asked about time stress workload right before.
56	11711	2	3	05.03.00	Braking	Driver almost ran red light. TravTek is speaking directions.
56	11711	6	6	22.02.20	Braking	Driver almost ran red light. Driver had just made a u turn.
56	18981	4	4	18.19.81	Braking	Driver almost runs a stop sign with a blinking red light. Experimenter says "Stop sign". Subject is talking about his route. No other cars are present.
56	18941	1	5	00.56.73	Runs 4-way Stop Sign	Driver almost runs 4-way stop sign. Driver was answering workload questions. Driver was looking straight ahead the entire time.
57	19041	2	3	20.16.80	Braking	driver almost runs red light. The cross traffic had not started yet. Experimenter says "red light up here" and driver stops. Cant' tell where driver is looking because he is wearing glasses.
61	11731	5	5	04.18.00	Braking	Another driver in left lane was going in the same direction and tries to move into driver's lane. Driver swerves a bit to the right. Other car moves back into his lane.
61	11731	5	5	4.52.40	Braking	Driver almost runs red light. Driver is chatting and looking straight ahead. She even accelerates before experimenter says "red light"

APPENDIX C**TRAVTEK NEAR-MISS DATABASE**

(See Table 1 for explanation of the variables provided in this Appendix)



Project Number	Z1	1	1	1	1	1	1	1	1	1
Incident Number	Z2	1	2	3	4	5	6	7	8	9
Incident Type	Z3	11	11	11	11	11	1	12	1	1
Subject Number	Z4	11711	11701	19051	19021	19031	11671	11741	18921	11491
Subject Gender	Z5	2	1	2	2	2	1	2	1	1
Subject Age	Z6	69	73	68	70	70	67	72	16	37
Month of Error	Z7	2	3	2	2	3	3	2	3	2
Year of Error	Z8	93	93	93	93	93	93	93	93	93
Day of Week	Z9	3	4	6	.	.	1	4	.	5
Hour of Error	10	.	.	.	.	.	.	.	.	.
Minute of Error	11	.	.	.	.	.	.	.	.	.
Vehicle Make	12	21	21	21	21	21	21	21	21	21
Vehicle Model	13	5	5	5	5	5	5	5	5	5
Model Year	14	1990	1990	1990	1990	1990	1990	1990	1990	1990
Body Type	15	2	2	2	2	2	2	2	2	2
Potential Number of Vehicles Involved	16	0	1	1	0	0	1	0	4	1
Number of Non-motorists	17	0	0	0	0	0	0	0	0	0
Interstate Highway	18	0	0	0	1	1	0	0	0	0
Relation of Junction	19	8	2	0	4	4	0	0	0	0
Conflict Type	20	98	98	98	98	4	4	98	98	4
Relation to Roadway	21	2	1	1	3	2	1	3	1	1
Traffic-way Flow	22	2	1	1	1	2	2	1	1	3
Number of Lanes	23	2	1	1	1	4	2	1	1	4
Roadway Alignment	24	1	1	2	1	1	1	2	2	1
Roadway Profile	25	1	1	1	1	9	1	1	1	1
Project Number	Z1	1	1	1	1	1	1	1	1	1
Incident Number	Z2	1	2	3	4	5	6	7	8	9
Incident Type	Z3	11	11	11	11	11	1	12	1	1

Subject Number	Z4	11711	11701	19051	19021	19031	11671	11741	18921	11491
Roadway Surface Condition	26	1	1	1	1	2	2	1	1	1
Traffic Control Device Present	27	96	0	0	0	0	1	0	0	0
Speed Limit	28	.	.	.	.	.	.	.	.	.
Light Condition	29	1	1	1	1	1	1	1	1	1
Atmospheric Condition	30	1	1	1	1	2	2	1	1	1
Movement of Vehicle Prior to Critical Event	31	12	4	15	1	17	1	15	15	16
Most Likely First Harmful Event	32	39	25	25	39	35	25	39	25	25
Estimated Vehicle Role	33	0	0	0	0	0	0	0	0	0
Critical Event	34	9	20	23	11	11	30	11	23	30
Corrective Action Attempted	35	0	0	12	2		12	2	3	2
Subject's Experiences with System in General	36	.	.	.	.	.	.	.	.	.
Subject's Experience with Condition Used During Error	37	0.3	0.2	0.02	0.3	0.2	0.02	0.2	0.02	0.1
System Name	38	1	1	1	1	1	1	1	1	1
Factory/Aftermarket	39	2	2	2	2	2	2	2	2	2
System Content: Navigation	40	1	1	1	1	1	1	1	1	1
System Content: Signing	41	1	1	1	1	1	1	1	1	1
System Content: Safety and Warning	42	1	1	1	1	1	1	1	1	1
System Content: Motorist Services	43	1	1	1	1	1	1	1	1	1
System Content: Collision Avoidance	44	0	0	0	0	0	0	0	0	0
Navigation Method	45	3	1	4	3	1	4	1	4	2
Display Content During Error: Navigation	46	1	1	1	1	1	1	1	1	1
Project Number	Z1	1	1	1	1	1	1	1	1	1
Incident Number	Z2	1	2	3	4	5	6	7	8	9
Incident Type	Z3	11	11	11	11	11	1	12	1	1
Subject Number	Z4	11711	11701	19051	19021	19031	11671	11741	18921	11491
Display Content During Error: Signing	47	0	0	0	0	0	0	0	0	0
Display Content During Error: Safety and Warning	48	0	0	0	0	0	0	0	0	0

Display Content During Error: Motorist Services	49	0	0	0	0	0	0	0	0	0
Display Content During Error: Collision Avoidance	50	0	0	0	0	0	0	0	0	0
Overall Display Complexity During Error	51	.	4	.	.	4	.	4	.	2
Visual Format During Error	52	1	3	1	1	3	1	3	1	3
Display Location	53	2	1	2	2	1	2	1	2	1
Display Sensory Mode During Error	54	1	1	1	1	1	1	1	1	1
Auditory Presentation	55	0	0	0	0	0	0	0	0	1
Control Manipulation During Error	56	99	99	99	99	99	99	99	99	99
Control Type Manipulated During Error	57	99	99	99	99	99	99	99	99	99
Location of Control Manipulated During Error	58	9	9	9	9	9	9	9	9	9
Number of Glances to Display One Minute Prior to Error	59	0	7	11	7		11	11	11	.
Experimenter/Subject Communications During Error	Z6	9	9	9	9	9	8	9	9	9
Last Reported Workload (Psychological Stress)	61	.	.	.	.	.	.	.	.	.
Last Reported Workload (Visual Effort)	62	.	.	.	.	.	.	.	.	.
Last Reported Workload (Time Stress)	63	.	.	.	.	.	.	.	.	.
Driver Off Route During Error?	64	.	.	.	.	.	.	.	.	.
Traffic Density	65	3	1	1	1	.	1	1	1	3
Project Number	Z1	1	1	1	1	1	1	1	1	1
Incident Number	Z2	1	2	3	4	5	6	7	8	9
Incident Type	Z3	11	11	11	11	11	1	12	1	1
Subject Number	Z4	11711	11701	19051	19021	19031	11671	11741	18921	11491
Attention Directed Towards System During Error	66	0	1	0	1	0	1	1	1	0
Error Severity Potential	67	1	2	1	1	1	2	1	3	2
Estimated Minimum Time to Collision (TTC)	68	.	.	.	.	.	.	.	.	.

Project Number	Z1	1	1	1	1	1	1	1	1	1
Incident Number	Z2	10	11	12	13	14	15	16	17	18
Incident Type	Z3	11	11	1	12	11	1	11	1	1
Subject Number	Z4	19031	11701	11661	11681	11471	19021	11661	11621	18991
Subject Gender	Z5	2	1	1	1	1	2	1	2	2
Subject Age	Z6	70	73	67	72	37	70	67	72	45
Month of Error	Z7	3	3	2	2	1	2	2	2	3
Year of Error	Z8	93	93	93	93	93	93	93	93	93
Day of Week	Z9	.	4	1	2	1	1	7	5	4
Hour of Error	10	.	.	.	.	.	.	.	.	.
Minute of Error	11	.	.	.	.	.	.	.	.	.
Vehicle Make	12	21	21	21	21	21	21	21	21	21
Vehicle Model	13	5	5	5	5	5	5	5	5	5
Model Year	14	1990	1990	1990	1990	1990	1990	1990	1990	1990
Body Type	15	2	2	2	2	2	2	2	2	2
Potential Number of Vehicles Involved	16	1	1	1	1	1	0	1	0	1
Number of Non-motorists	17	0	0	0	0	0	0	0	0	0
Interstate Highway	18	1	1	0	0	0	1	1	0	0
Relation of Junction	19	4	0	11	1	1	4	4	11	2
Conflict Type	20	4	4	4		98	4	4	98	4
Relation to Roadway	21	1	1	1	1	1	2	1	1	1
Traffic-way Flow	22	2	2	1	1	1	3	1	1	1
Number of Lanes	23	5	3	2	1	4	2	2	1	3
Roadway Alignment	24	1	1	1	1	1	1	1	1	1
Roadway Profile	25	1	1	1	1	1	2	2	1	1
Project Number	Z1	1	1	1	1	1	1	1	1	1
Incident Number	Z2	10	11	12	13	14	15	16	17	18
Incident Type	Z3	11	11	1	12	11	1	11	1	1

Subject Number	Z4	19031	11701	11661	11681	11471	19021	11661	11621	18991
Roadway Surface Condition	26	2	1	1	1	1	1	1	1	1
Traffic Control Device Present	27	0	0	1	0	0	1	1	21	1
Speed Limit	28	.	.	.	.	.	.	.	.	.
Light Condition	29	1	1	1	1	1	1	1	1	1
Atmospheric Condition	30	2	1	1	1	1	1	1	1	1
Movement of Vehicle Prior to Critical Event	31	16	16	16	2	16	16	16	1	1
Most Likely First Harmful Event	32	25	25	25	25	25	25	25	25	25
Estimated Vehicle Role	33	0	0	0	0	0	0	0	0	0
Critical Event	34	30	31	30	9	10	21	21	98	61
Corrective Action Attempted	35	0	0	3	2	11	3	12	1	12
Subject's Experiences with System in General	36	.	.	2.1	.	.	.	2.1	.	.
Subject's Experience with Condition Used During Error	37	0.1	0.1	0.7	0.4	0.2	0.1	0.2	0.2	0.1
System Name	38	1	1	1	1	1	1	1	1	1
Factory/Aftermarket	39	2	2	2	2	2	2	2	2	2
System Content: Navigation	40	1	1	1	1	1	1	1	1	1
System Content: Signing	41	1	1	1	1	1	1	1	1	1
System Content: Safety and Warning	42	1	1	1	1	1	1	1	1	1
System Content: Motorist Services	43	1	1	1	1	1	1	1	1	1
System Content: Collision Avoidance	44	0	0	0	0	0	0	0	0	0
Navigation Method	45	1	2	1	3	3	2	1	1	2
Display Content During Error: Navigation	46	1	1	1	1	1	1	1	1	1
Project Number	Z1	1	1	1	1	1	1	1	1	1
Incident Number	Z2	10	11	12	13	14	15	16	17	18
Incident Type	Z3	11	11	1	12	11	1	11	1	1
Subject Number	Z4	19031	11701	11661	11681	11471	19021	11661	11621	18991
Display Content During Error: Signing	47	0	0	0	0	0	0	0	0	0
Display Content During Error: Safety and Warning	48	0	0	0	0	0	0	0	0	0

Display Content During Error: Motorist Services	49	0	0	0	0	0	0	0	0	0
Display Content During Error: Collision Avoidance	50	0	0	0	0	0	0	0	0	0
Overall Display Complexity During Error	51	4	2	4	.	.	2	4	4	2
Visual Format During Error	52	3	3	3	1	1	3	3	3	3
Display Location	53	1	1	1	1	1	1	1	1	1
Display Sensory Mode During Error	54	1	1	1	1	1	1	1	1	1
Auditory Presentation	55	0	1	0	0	0	1	0	0	0
Control Manipulation During Error	56	99	99	8	99	99	99	99	99	99
Control Type Manipulated During Error	57	99	99	98	99	99	99	99	99	99
Location of Control Manipulated During Error	58	9	9	1	9	9	9	9	9	9
Number of Glances to Display One Minute Prior to Error	59	.	4	20	0	1	.	20	12	21
Experimenter/Subject Communications During Error	Z6	9	9	8	1	1	1	1	0	1
Last Reported Workload (Psychological Stress)	61	.	.	.	.	.	.	.	.	.
Last Reported Workload (Visual Effort)	62	.	.	.	.	.	.	.	.	.
Last Reported Workload (Time Stress)	63	.	.	.	.	.	.	.	.	.
Driver Off Route During Error?	64	.	.	.	.	.	.	.	.	.
Traffic Density	65	3	2	1	2	1	.	2	1	1
Project Number	Z1	1	1	1	1	1	1	1	1	1
Incident Number	Z2	10	11	12	13	14	15	16	17	18
Incident Type	Z3	11	11	1	12	11	1	11	1	1
Subject Number	Z4	19031	11701	11661	11681	11471	19021	11661	11621	18991
Attention Directed Towards System During Error	66	0	0	0	0	0	3	0	0	0
Error Severity Potential	67	2	3	1	1	1	3	1	3	2
Estimated Minimum Time to Collision (TTC)	68	.	.	.	.	.	.	.	.	.

Project Number	Z1	1	1	1	1	1	1	1	1	1
Incident Number	Z2	19	20	21	22	23	24	25	26	27
Incident Type	Z3	1	1	11	1	11	1	11	1	1
Subject Number	Z4	16681	18991	18981	18941	11711	18901	11531	11531	11661
Subject Gender	Z5	2	2	1	2	2	1	1	1	1
Subject Age	Z6	73	45	35	16	69	18	35	35	67
Month of Error	Z7	1	3	3	2	2	2	1	1	2
Year of Error	Z8	93	93	93	93	93	93	93	93	93
Day of Week	Z9	2	4	1	1	3	4	4	4	7
Hour of Error	10	.	.	.	.	.	.	.	.	.
Minute of Error	11	.	.	.	.	.	.	.	.	.
Vehicle Make	12	21	21	21	21	21	21	21	21	21
Vehicle Model	13	5	5	5	5	5	5	5	5	5
Model Year	14	1990	1990	1990	1990	1990	1990	1990	1990	1990
Body Type	15	2	2	2	2	2	2	2	2	2
Potential Number of Vehicles Involved	16	1	1	1	1	0	1	0	1	1
Number of Non-motorists	17	0	0	0	0	0	0	0	0	0
Interstate Highway	18	0	0	1	0	0	1	1	1	0
Relation of Junction	19	1	2	0	1	4	0	4	4	0
Conflict Type	20	98	3	4	4	99	4	98	98	3
Relation to Roadway	21	1	1	1	1	1	1	3	1	1
Traffic-way Flow	22	1	2	2	1	3	2	2	1	1
Number of Lanes	23	3	2	3	1	1	3	4	2	2
Roadway Alignment	24	1	1	1	1	1	1	1	1	1
Roadway Profile	25	1	1	1	1	1	1	1	2	1
Project Number	Z1	1	1	1	1	1	1	1	1	1
Incident Number	Z2	19	20	21	22	23	24	25	26	27
Incident Type	Z3	1	1	11	1	11	1	11	1	1

Subject Number	Z4	16681	18991	18981	18941	11711	18901	11531	11531	11661
Roadway Surface Condition	26	2	1	1	1	1	1	1	1	1
Traffic Control Device Present	27	1	0	0	1	4	0	0	1	0
Speed Limit	28	.	.	.	.	.	.	.	.	.
Light Condition	29	1	1	1	1	.1	1	1	1	1
Atmospheric Condition	30	2	1	1	1	1	1	1	1	1
Movement of Vehicle Prior to Critical Event	31	4	1	16	11	1	16	17	2	1
Most Likely First Harmful Event	32	25	25	25	25	8	25	8	25	25
Estimated Vehicle Role	33	0	0	0	0	0	0	0	0	0
Critical Event	34	33	21	10	35	98	3	11	6	51
Corrective Action Attempted	35	11	1	12	12	1	1	2	1	1
Subject's Experiences with System in General	36	.	.	.	.	.	.	.	.	2.1
Subject's Experience with Condition Used During Error	37	0.2	0.1	0.1	0.04	0.2	0.2	0.1	0.1	0.1
System Name	38	1	1	1	1	1	1	1	1	1
Factory/Aftermarket	39	2	2	2	2	2	2	2	2	2
System Content: Navigation	40	1	1	1	1	1	1	1	1	1
System Content: Signing	41	1	1	1	1	1	1	1	1	1
System Content: Safety and Warning	42	1	1	1	1	1	1	1	1	1
System Content: Motorist Services	43	1	1	1	1	1	1	1	1	1
System Content: Collision Avoidance	44	0	0	0	0	0	0	0	0	0
Navigation Method	45	1	1	2	2	2	1	1	2	1
Display Content During Error: Navigation	46	1	1	1	1	1	1	1	1	1
Project Number	Z1	1	1	1	1	1	1	1	1	1
Incident Number	Z2	19	20	21	22	23	24	25	26	27
Incident Type	Z3	1	1	11	1	11	1	11	1	1
Subject Number	Z4	16681	18991	18981	18941	11711	18901	11531	11531	11661
Display Content During Error: Signing	47	0	0	0	0	0	0	0	0	0
Display Content During Error: Safety and Warning	48	0	0	0	0	0	0	0	0	0

Display Content During Error: Motorist Services	49	0	0	0	0	0	0	0	0	0
Display Content During Error: Collision Avoidance	50	0	0	0	0	0	0	0	0	0
Overall Display Complexity During Error	51	4	4	2	2	2	4	4	2	4
Visual Format During Error	52	3	3	3	3	3	3	3	3	3
Display Location	53	1	1	1	1	1	1	1	1	1
Display Sensory Mode During Error	54	1	1	1	1	1	1			
Auditory Presentation	55	0	0	0	0	0	0	0	0	0
Control Manipulation During Error	56	99	99	99	99	99	99	99	99	99
Control Type Manipulated During Error	57	99	99	99	99	99	99	99	99	99
Location of Control Manipulated During Error	58	9	9	9	9	9	9	9	9	9
Number of Glances to Display One Minute Prior to Error	59	3	11	5	13	3	84	2	1	3
Experimenter/Subject Communications During Error	Z6	0	1	0	0	0	2	9	1	1
Last Reported Workload (Psychological Stress)	61	.	.	.	.	.	.	.	.	.
Last Reported Workload (Visual Effort)	62	.	.	.	.	.	.	.	.	.
Last Reported Workload (Time Stress)	63	.	.	.	.	.	.	.	.	.
Driver Off Route During Error?	64	.	.	.	.	.	.	.	.	.
Traffic Density	65	1	1	1	1	1	3	3	2	2
Project Number	Z1	1	1	1	1	1	1	1	1	1
Incident Number	Z2	19	20	21	22	23	24	25	26	27
Incident Type	Z3	1	1	11	1	11	1	11	1	1
Subject Number	Z4	16681	18991	18981	18941	11711	18901	11531	11531	11661
Attention Directed Towards System During Error	66	0	1	0	0	0	0	0	0	0
Error Severity Potential	67	2	2	3	3	1	3	1	2	1
Estimated Minimum Time to Collision (TTC)	68	.	.	.	.	.	.	.	.	.

Project Number	Z1	1	1	1	1	1	1	1	1	1
Incident Number	Z2	28	29	30	31	32	33	34	35	36
Incident Type	Z3	1	1	1	1	1	1	1	1	11
Subject Number	Z4	16311	18941	19051	11731	11711	11711	18981	18941	19041
Subject Gender	Z5		2	2	2	2	2	1	2	1
Subject Age	Z6	43	16	68	69	69	69	35	16	75
Month of Error	Z7	2	2	2	3	2	2	3	2	2
Year of Error	Z8	93	93	93	93	93	93	93	93	93
Day of Week	Z9	5	1	6	5	3	3	1	1	7
Hour of Error	10	.	.	.	.	.	.	.	.	.
Minute of Error	11	.	.	.	.	.	.	.	.	.
Vehicle Make	12	21	21	21	21	21	21	21	21	21
Vehicle Model	13	5	5	5	5	5	5	5	5	5
Model Year	14	1990	1990	1990	1990	1990	1990	1990	1990	1990
Body Type	15	2	2	2	2	2	2	2	2	2
Potential Number of Vehicles Involved	16	.	0	0	0	2	1	0	0	1
Number of Non-motorists	17	.	0	0	0	0	0	0	0	0
Interstate Highway	18	.	0	0	0	0	0	0	0	0
Relation of Junction	19	.	1	1	1	1	1	1	1	1
Conflict Type	20	.	99	99	99	99	11	99	99	99
Relation to Roadway	21	.	1	1	1	1	1	1	1	1
Traffic-way Flow	22	.	1	2	1	1	1	1	1	2
Number of Lanes	23	.	1	2	1	2	3	1	1	3
Roadway Alignment	24	.	1	1	1	1	1	1	1	1
Roadway Profile	25	.	1	1	1	1	1	1	1	1
Project Number	Z1	1	1	1	1	1	1	1	1	1
Incident Number	Z2	28	29	30	31	32	33	34	35	36
Incident Type	Z3	1	1	1	1	1	1	1	1	11

Subject Number	Z4	16311	18941	19051	11731	11711	11711	18981	18941	19041
Roadway Surface Condition	26	.	1	1	1	1	1	1	1	1
Traffic Control Device Present	27	.	21	1	1	1	1	4	21	1
Speed Limit	28	.	.	.	.	.	.	.	.	.
Light Condition	29	.	1	1	1	1	1	1	1	1
Atmospheric Condition	30	.	1	1	1	1	1	1	1	1
Movement of Vehicle Prior to Critical Event	31	.	1	1	1	1	1	1	1	1
Most Likely First Harmful Event	32	.	8	8	8	25	74	8	25	25
Estimated Vehicle Role	33	0	0	0	0	0	0	0	0	0
Critical Event	34	.	99	98	98	98	6	6	6	6
Corrective Action Attempted	35	.	1	1	1	1	1	1	1	1
Subject's Experiences with System in General	36	.	.	.	.	.	.	.	.	.
Subject's Experience with Condition Used During Error	37	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.01	0.2
System Name	38	1	1	1	1	1	1	1	1	1
Factory/Aftermarket	39	2	2	2	2	2	2	2	2	2
System Content: Navigation	40	1	1	1	1	1	1	1	1	1
System Content: Signing	41	1	1	1	1	1	1	1	1	1
System Content: Safety and Warning	42	1	1	1	1	1	1	1	1	1
System Content: Motorist Services	43	1	1	1	1	1	1	1	1	1
System Content: Collision Avoidance	44	0	0	0	0	0	0	0	0	0
Navigation Method	45	2	1	1	3	1	3	1	4	1
Display Content During Error: Navigation	46	1	1	1	1	1	1	1	1	1
Project Number	Z1	1	1	1	1	1	1	1	1	1
Incident Number	Z2	28	29	30	31	32	33	34	35	36
Incident Type	Z3	1	1	1	1	1	1	1	1	11
Subject Number	Z4	16311	18941	19051	11731	11711	11711	18981	18941	19041
Display Content During Error: Signing	47	0	0	0	0	0	0	0	0	0
Display Content During Error: Safety and Warning	48	0	0	0	0	0	0	0	0	0

Display Content During Error: Motorist Services	49	0	0	0	0	0	0	0	0	0
Display Content During Error: Collision Avoidance	50	0	0	0	0	0	0	0	0	0
Overall Display Complexity During Error	51	2	4	4	.	4	.	4	.	4
Visual Format During Error	52	3	3	3	1	3	1	3	1	3
Display Location	53	.	1	1	2	1	2	1	2	1
Display Sensory Mode During Error	54	.	.	.	.	.	1	1	1	.
Auditory Presentation	55	.	0	1	0	1	0	0	0	0
Control Manipulation During Error	56	.	99	99	99	99	99	99	99	99
Control Type Manipulated During Error	57	.	99	99	99	99	99	99	99	99
Location of Control Manipulated During Error	58	.	9	9	9	9	9	9	9	9
Number of Glances to Display One Minute Prior to Error	59	.	9	.	6	0	3	8	0	18
Experimenter/Subject Communications During Error	Z6	.	0	0	1	0	0	0	1	0
Last Reported Workload (Psychological Stress)	61	.	.	.	.	.	.	.	.	.
Last Reported Workload (Visual Effort)	62	.	.	.	.	.	.	.	.	.
Last Reported Workload (Time Stress)	63	.	.	.	.	.	.	.	.	.
Driver Off Route During Error?	64	.	.	.	.	.	.	.	.	.
Traffic Density	65	.	1	.	1	1	3	1	1	2
Project Number	Z1	1	1	1	1	1	1	1	1	1
Incident Number	Z2	28	29	30	31	32	33	34	35	36
Incident Type	Z3	1	1	1	1	1	1	1	1	11
Subject Number	Z4	16311	18941	19051	11731	11711	11711	18981	18941	19041
Attention Directed Towards System During Error	66	.	0	1	0	1	0	0	0	0
Error Severity Potential	67	.	3	3	3	3	3	3	3	2
Estimated Minimum Time to Collision (TTC)	68	.	.	.	.	.	.	.	.	.

Project Number	Z1	1	1
Incident Number	Z2	37	38
Incident Type	Z3	1	1
Subject Number	Z4	11731	11731
Subject Gender	Z5	2	2
Subject Age	Z6	69	69
Month of Error	Z7	3	3
Year of Error	Z8	93	93
Day of Week	Z9	5	5
Hour of Error	10	.	.
Minute of Error	11	.	.
Vehicle Make	12	21	21
Vehicle Model	13	5	5
Model Year	14	1990	1990
Body Type	15	2	2
Potential Number of Vehicles Involved	16	1	1
Number of Non-motorists	17	0	0
Interstate Highway	18	0	0
Relation of Junction	19	0	1
Conflict Type	20	4	11
Relation to Roadway	21	1	1
Traffic-way Flow	22	2	2
Number of Lanes	23	2	2
Roadway Alignment	24	1	1
Roadway Profile	25	1	1
Project Number	Z1	1	1
Incident Number	Z2	37	38
Incident Type	Z3	1	1

Subject Number	Z4	11731	11731
Roadway Surface Condition	26	1	1
Traffic Control Device Present	27	0	1
Speed Limit	28	.	.
Light Condition	29	1	1
Atmospheric Condition	30	1	1
Movement of Vehicle Prior to Critical Event	31	1	1
Most Likely First Harmful Event	32	25	25
Estimated Vehicle Role	33	0	0
Critical Event	34	61	6
Corrective Action Attempted	35	12	1
Subject's Experiences with System in General	36	.	.
Subject's Experience with Condition Used During Error	37	0.04	0.04
System Name	38	1	1
Factory/Aftermarket	39	2	2
System Content: Navigation	40	1	1
System Content: Signing	41	1	1
System Content: Safety and Warning	42	1	1
System Content: Motorist Services	43	1	1
System Content: Collision Avoidance	44	0	0
Navigation Method	45	4	4
Display Content During Error: Navigation	46	1	1
Project Number	Z1	1	1
Incident Number	Z2	37	38
Incident Type	Z3	1	1
Subject Number	Z4	11731	11731
Display Content During Error: Signing	47	0	0
Display Content During Error: Safety and Warning	48	0	0

Display Content During Error: Motorist Services	49	0	0
Display Content During Error: Collision Avoidance	50	0	0
Overall Display Complexity During Error	51	.	.
Visual Format During Error	52	1	1
Display Location	53	2	2
Display Sensory Mode During Error	54	1	1
Auditory Presentation	55	0	0
Control Manipulation During Error	56	99	99
Control Type Manipulated During Error	57	99	99
Location of Control Manipulated During Error	58	9	9
Number of Glances to Display One Minute Prior to Error	59	2	0
Experimenter/Subject Communications During Error	Z6	0	0
Last Reported Workload (Psychological Stress)	61	.	.
Last Reported Workload (Visual Effort)	62	.	.
Last Reported Workload (Time Stress)	63	.	.
Driver Off Route During Error?	64	.	.
Traffic Density	65	1	1
Project Number	Z1	1	1
Incident Number	Z2	37	38
Incident Type	Z3	1	1
Subject Number	Z4	11731	11731
Attention Directed Towards System During Error	66	0	0
Error Severity Potential	67	2	3
Estimated Minimum Time to Collision (TTC)	68	.	.



APPENDIX B

NEAR-MISS VIDEO SUMMARIES

NEAR-MISS VIDEO SUMMARIES

VARIABLE EXPLANATIONS

TRAVTEK RATING NUMBER: Original TravTek Severity Rating (See Dingus et al., 1995).

SUBJECT NUMBER: Original TravTek Subject Number.

DRIVE NUMBER: Order position that condition was driven (1 = first; 6 = last).

DISPLAY NUMBER: 1 = TravTek turn-by-turn w/voice; 2 = TravTek turn-by-turn w/o voice; 3 = TravTek route map w/voice; 4 = TravTek route map w/o voice; 5 = Paper direction list; 6 = Paper map.

TIME STAMP: Time stamp on videotape.

NEAR-MISS TYPE: Near-Miss Classification Label from Original TravTek Data

APPENDIX C

TRAVTEK NEAR-MISS DATABASE

(Explanation of the variables provided in this Appendix)

Table 1. TravTek Camera Car Study Near-Miss Classification Variables

Variable ID	Variable Name	Valid Values and Descriptions
Z1	Project Number	1=TravTek Camera Car Study
		2=ADVANCE Safety Analysis
Z2	Incident Number	XXXXXX (6 dig max)
Z3	Incident Type	1=Near-Miss
		2=Accident 11=Error with Hazard Present; Not Near-Miss 12= Error with No Hazard Present; Not Near- Miss
Z4	Subject Number	XXXXXX=Number from study (6 dig max)
Z5	Subject Gender (GES P8)	1=Male
		2=Female
Z6	Subject Age (GES P7)	XX=Number (2 digits max)
Z7	Month of Error (GES A1)	XX=Number for Month (2 digits max)
		e.g., 1=January, 2=February, ...
Z8	Year of Error (GES A1B)	XXXX=Year of Error (e.g., 1995)
Z9	Day of Week (GES A1C)	1=Sunday
		2=Monday
		3=Tuesday
		4=Wednesday
		5=Thursday
		6=Friday
		7=Saturday
Z10	Hour of Error (GES A2)	XX=Hour
		(military time, 2 digit max 12=noon, 24=midnight, 99=unknown)
Z11	Minute of Error (GES A2A)	XX=Minute (2 digit max)
		(00 thru 60, 99=unknown)
Z12	Vehicle Make (GES V3)	XX=Vehicle Make (GES Classification)
		=21 (Oldsmobile)
		=12 (Ford)
Z13	Vehicle Model (GES V4)	XXX= Vehicle Model (GES Classification)
		=005 (Trofeo)
		=017 (Taurus)

Z14	Model Year (GES V6)	XXXX= Model Year of Vehicle (e.g., 1995)
Z15	Body Type (GES V5)	01=Convertible
		02=2 door sedan, hardtop, coupe
		03=3 door/2 door hatchback
		04=4 door sedan, hardtop
		05=5 door/4 door hatchback
		06=Station Wagon
		07=Hatchback, number doors unknown
		08=Other auto type
		09=Unknown type
Z16	Potential Number of Vehicles Involved (GES A3)	XX=Number of vehicles that might potentially be involved in error or consequences of error
Z17	Number of Non-Motorists (GES A4)	XX=Number of non-motorists (such as bicyclists or pedestrians) that might potentially be involved in error or consequences of error
Z18	Interstate Highway (GES A8)	0=No
		1=Yes
		9=Unknown
Z19	Relation to Junction (GES A9)	Non-interchange Area
		00 = Non-Junction
		01 = Intersection
		02 = Intersection Related
		03 = Driveway, Alley Access, Etc.
		04 = Entrance/Exit Ramp
		05 = Rail Grade Crossing
		08 = Other, Non-interchange
		09 = Unknown, Non-interchange
		Interchange Area
		10 = Non-Junction
		11 = Intersection
		12 = Intersection Related
		13 = Driveway, Alley Access, etc.
		14 = Entrance/Exit Ramp
		18 = Other Location in Interchange
		19 = Unknown, Interchange Area
		99 = Unknown if Interchange
Z20	Conflict Type (TCT Lit)	Diagrams of the following conflicts may be seen in the TCT literature review document 1=left turn, same direction
		2=right turn, same direction

		3=slow vehicle, same direction
		4=lane change conflict
		5=head on conflict
		6=opposing left turn conflict
		7=right turn cross traffic from right conflict
		8=left turn cross traffic from right conflict
		9=through cross traffic from right conflict
		10=right turn cross traffic from left conflict
		11=left turn cross traffic from left conflict
		12=through cross traffic from left conflict
		13=opposing right turn on red conflict
		14=pedestrian/bicyclist conflict
		98=other
		99=non-conflict
Z21	Relation to Roadway (GES A10)	Indicates location of first harmful event.
		1 = On Roadway
		2 = On Shoulder or Parking Lane
		3 = Off Roadway/Shoulder/Parking Lane
		4 = On Median
		8 = Other
		9 = Unknown
Z22	Trafficway Flow (GES A11)	1=Not physically divided, two way
		2=Divided, two way
		3=One-way
		9=Other, unknown
Z23	Number of Lanes (GES A12Z)	1=One Lane
		2=Two Lane
		3=Three Lane
		4=Four Lane
		5=Five Lane
		6=Six Lane
		7=Seven or More Lanes
		9=Unknown
Z24	Roadway Alignment (GES A13Z)	1=Straight
		2=Curve
		9=Unknown
Z25	Roadway Profile (GES A14)	1=Level
		2=Grade
		3=Hillcrest
		8=Other

		9=Unknown
Z26	Roadway Surface Cond (GES A15)	1=Dry
		2=Wet
		3=Snow or Slush
		4=Ice
		5=Sand, Dirt, Oil
		8=Other
		9=Unknown
Z27	Traffic Control Device Present (GES A16N)	00=No Controls
		Trafficway Traffic Signals
		01 = Traffic Control Signal (on colors)
		04 = Flashing Traffic Control Signal
		08 = Other Traffic Signal
		09 = Unknown Traffic Signal
		Regulatory, School Zone or Warning Signs:
		21 = Stop Sign
		22 = Yield Sign
		23 = School Zone Related Sign
		28 = Other Sign
		29 = Unknown Sign
		Warning Signs
		40 = Advospru Speed Sign
		41 = Warning Sign For Road Conditions (Hill, Steep Grade, etc.
		42 = Warning Sign For Road Construction
		43 = Warning Sign For Environment/Traffic (Fog Ahead, Wind, Crash Ahead)
		49 = Unknown Type Warning
		Miscellaneous not at Railroad Crossing:
		51 = Officer, Crossing Guard, Flagman, etc.
		At Railroad Grade Crossing
		61 = Active Devices (e.g. Gates, Flashing Lights, Traffic Signal)
		62 = Passive Devices (e.g. Stop Sign, Cross Bucks)

		Other
		96 = Sign Present, but Cannot Read It
		97 = Traffic Control Present - No Details
		98 = Other Traffic Control (whether or not at RR Grade Crossing)
		99 = Unknown
Z28	Speed Limit(GES A18)	0=No speed limit (alley, parking lot)
		0-65=Actual Speed Limit
		99=Unknown
Z29	Light Condition (GES A19)	1=Daylight
		2=Dark
		3=Dark but Lighted
		4=Dawn
		5=Dusk
		6=Dawn or Dusk
		9=Unknown
Z30	Atmospheric Condition (GES A20)	1 = No Adverse Conditions
		2 = Rain
		3 = Sleet
		4 = Snow
		5 = Fog
		6 = Rain and Fog
		7 = Sleet and Fog
		8 = Other (Smog, Smoke, Blowing Sand/Dust/Snow, Crosswind, Hail)
		9 = Unknown
Z31	Movement of Vehicle Prior to Critical Event (GES V21N)	Records the attribute which best describes this vehicle's activity prior to the driver's realization of an impending critical event or just prior to impact if the driver took no action or had no time to attempt to any evasive maneuvers.
		01 = Going Straight
		02 = Slowing in Traffic Lane
		03 = Starting in Traffic Lane
		04 = Stopped in Traffic Lane
		05 = Passing or Overtaking other Vehicle
		06 = Disabled or Parked in Travel Lane
		07 = Leaving a Parked Position
		08 = Entering a Parked Position
		10 = Turning Right
		11 = Turning Left
		12 = Making U-turn

		13 = Backing Up (other than for parking)
		15 = Negotiating a Curve
		16 = Changing Lanes
		17 = Merging
		18 = Successful Corrective Action to a Previous Critical Event
		94 = More than Two Vehicles Involved
		98 = Other
		99 = Unknown
Z32	Most Likely First Harmful Event (GES A6)	Noncollision
		1 = Rollover/Overturn
		2 = Fire/Explosion
		3 = Immersion
		5 = Jackknife
		6 = Noncollision Injury (Injured in Vehicle, or Fell from Veh.)
		8 = Other Noncollision
		9 = Noncollision - No Details
		10 = Thrown or Falling Object
		Collision with Object Not Fixed
		21 = Pedestrian
		22 = Cycle or Cyclist (Pedalcyclist or Pedalcycle)
		23 = Railway Train
		24 = Animal
		25 = Motor Vehicle in Transport
		26 = Parked Motor Vehicle (or Other M.V. Not in Transport)
		27 = Other Type Non-Motorist
		28 = Other Object Not Fixed
		29 = Object NOt Fixed - No Details
		Collision With Fixed Object
		31 = Ground
		32 = Building
		33 = Impact Attenuator/Crash Cushion
		34 = Bridge Structure (Bridge Pier/Abutment/Parapet End/Rail)
		35 = Guardrail
		36 = Concrete Traffic Barrier Other Longitudinal Barrier Type
		37 = Post, Pole or Support (Sign Post, Utility Post)

		38 = Culvert or Ditch
		39 = Curb
		40 = Embankment
		41 = Fence
		42 = Wall
		43 = Fire Hydrant
		44 = Shrubbery or Bush
		45 = Tree
		46 = Boulder
		50 = Pavement Surface Irregularity (Ruts, Potholes, Grates, etc.)
Z33	Estimated Vehicle Role (GES V22)	0=Non-collision
		1=Striking
		2=Struck
		3=Both
		9=Unknown
Z34	Critical Event (GES V26)	Identifies the critical event which made the crash imminent (i.e., something occurred which made the collision possible). A critical event is coded for each vehicle and identifies the circumstances leading to this vehicle's first impact in the crash.
		I. Critical Event Initiated by Test Vehicle
		Loss of Control Due to:
		01 = Blowout or flat tire
		02 = Stalled engine
		03 = Disabling vehicle failure (e.g. wheel fell off)
		04 = Minor vehicle failure
		05 = Poor road conditions (puddle, pothole, ice, etc.)
		06 = Excessive speed
		07 = Dangerously Close Headway
		08 = Long Single Glance > 2.5 Seconds
		09 = Other unknown reason
		Traveling Over Edge of Roadway:
		10 = Over left edge of roadway
		11 = Over right edge of roadway
		14 = End departure
		19 = Unknown which edge
		In Another Vehicle's Lane:

		20 = Stopped
		21 = Traveling in same direction with lower speed (i.e. lower steady speed or decelerating)
		22 = Traveling in same direction with higher speed
		23 = Traveling in opposite direction
		Encroaching Into Another Vehicle's Lane: At Non-Junction
		33 = Entering intersection - turning into same direction
		34 = Entering intersection - straight across path
		35 = Entering intersection - turning in opposite direction
		36 = Entering intersection - intended path unknown
		37 = Entering driveway, alley access, etc.
		38 = From driveway, alley access, etc. - turning into same direction
		39 = From driveway, alley access, etc. - straight across path
		40 = From driveway, alley access, etc. - turning in opposite direction
		41 = From driveway, alley access, etc. - intended path unknown
		42 = Entering from "Yield" entrance (ramp/channel)
		48 = Encroaching - Details Unknown
		49 = This vehicle initiated critical event - details unknown
		II. Critical event initiated by the other vehicle
		Motor Vehicle Already In This Vehicle's Lane:
		50 = Stopped
		51 = Travelling in same direction with lower speed
		52 = Travelling in same direction with high speed
		53 = Travelling in opposite direction
		Another Vehicle Encroaching Into This Vehicle's Lane: At Non-Junction
		56 = From adjacent lane (opposite direction)
		60 = From adjacent lane (same direction) - over right lane line

		64 = From parallel/diagonal parking lane
		Another Vehicle Encroaching Into This Vehicle's Lane: At Junction
		65 = Entering intersection - turning into same direction
		66 = Entering intersection - straight across path
		67 = Entering intersection - turning into opposite direction
		68 = Entering intersection - intended path unknown
		69 = Entering driveway, alley access, etc.
		70 = From driveway, alley access, etc. - turning into same direction
		71 = From driveway, alley access, etc. - straight across path
		72 = From driveway, alley access, etc. - turning into opposite direction
		73 = From driveway, alley access, etc. - intended path unknown
		74 = Entering from "Yield" entrance (ramp/channel)
		78 = Encroaching - Details Unknown
		79 = Other vehicle initiated critical event - details unknown
		III. Critical Event Initiated By Pedestrian, Pedacyclist, Other Non-Motorist, Animal Or Object
		80 = Pedestrian in roadway
		81 = Pedestrian approaching roadway
		83 = Pedacyclist/other non-motorist in roadway
		84 = Pedacyclist/other non-motorist approaching roadway
		86 = Pedestrian/pedacyclist/other non-motorist - unknown location
		87 = Animal in roadway
		88 = Animal approaching roadway
		90 = Object in roadway
		93 = Animal or object - unknown location
		IV. Miscellaneous
		94 = More than two vehicles involved
		98 = Other event
		99 = Unknown

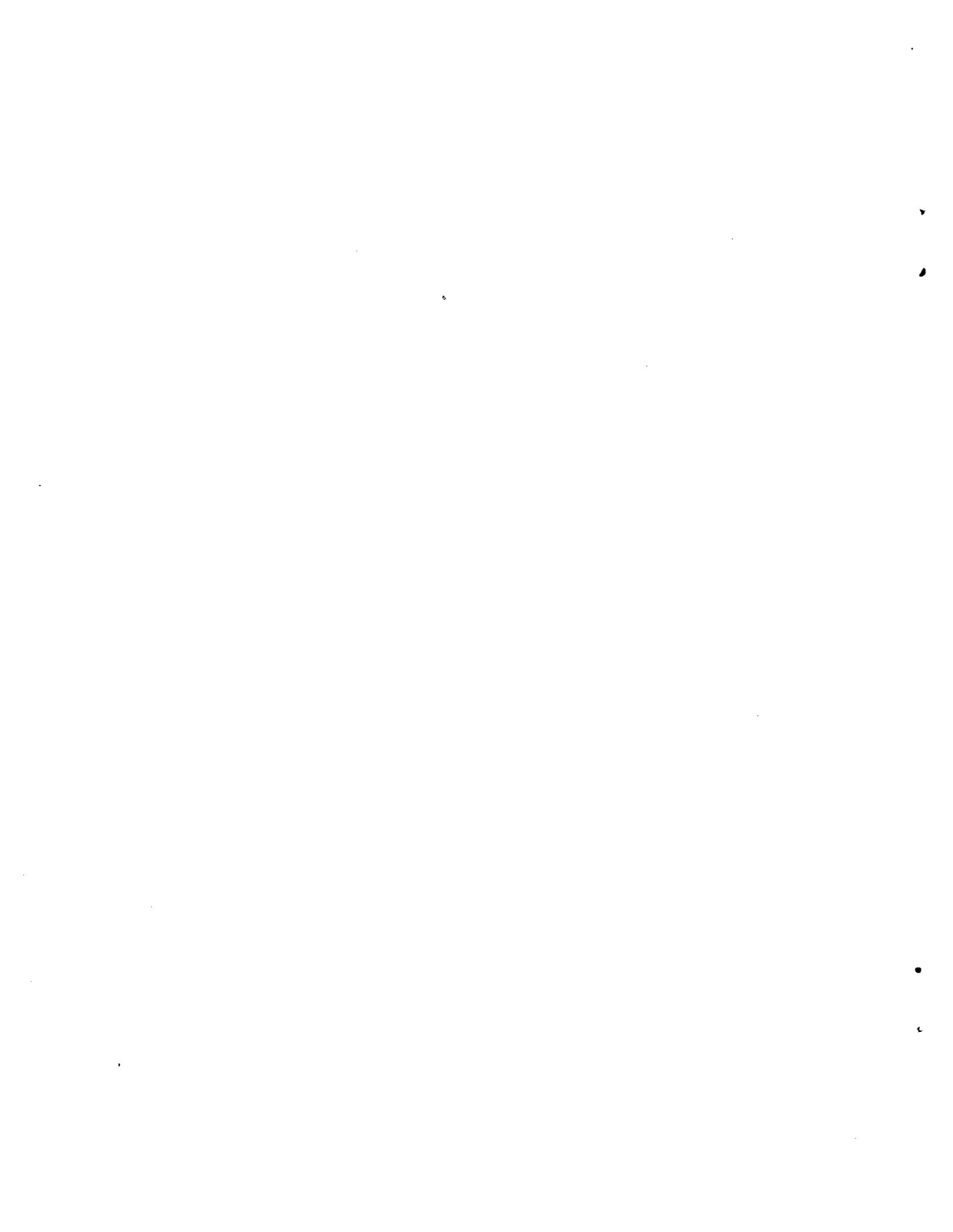
Z35	Corrective Action Attempted (GES V27N)	Describes the actions taken by the driver of this vehicle in response to the impending danger.
		00 = No corrective action attempted
		Single Corrective Action
		01 = Braked/slowed
		02 = Steered to left
		03 = Steered to right
		04 = Accelerated
		05 = Backed
		Multiple Corrective Action
		11 = Braked and steered to left
		12 = Braked and steered to right
		13 = Accelerated and steered to left
		14 = Accelerated and steered to right
		15 = Steered in both directions
		94 = More than two vehicles involved
		97 = Corrective action - no details
		98 = Other single/mult corrective action
		99 = Unknown
Z36	Subject's Experience w/system in general (TravTek)	Duration of time the subject has driven the vehicle while the system was activated. This is a total cumulative time, including all configurations and training time.
		XXX.X=Hours (3 digit to tenths of hrs)
Z37	Subject's Experience w/condition used during error (TravTek)	Duration of time the subject has driven the vehicle in the configuration the car was in while the error occurred. This should include training time and time up to when the error occurred.
		XXX.X=Hours (3 digit to tenths of hrs)
Z38	System Name	1=Travtek
		2=ADVANCE
Z39	Factory/Aftermarket	1=Factory Installed
		2=Aftermarket Installation
The following system content variables are used to describe what the system is capable of regardless of what was active during the error.		
Z40	System Content: Navigation	0=No
		1=Yes
Z41	System Content: Signing	0=No
		1=Yes
Z42	System Content: Safety and Warning	0=No

		1=Yes
Z43	System Content: Motorist Services	0=No
		1=Yes
Z44	System Content: Collision Avoidance	0=No
		1=Yes
Z45	Navigation Method (TravTek)	1=Route Map
		2=Turn-by-Turn
		3=Paper Map
		4=Direction List
		8=Other
		9=Navigation not active during error
The following display content variables describe which systems were displaying information on the display while the error occurred.		
Z46	Display Content During Error: Navigation	0=No
		1=Yes
Z47	Display Content During Error: Signing	0=No
		1=Yes
Z48	Display Content During Error: Safety and Warning	0=No
		1=Yes
Z49	Display Content During Error: Motorist Services	0=No
		1=Yes
Z50	Display Content During Error: Collision Avoidance	0=No
		1=Yes
Z51	Overall Display Complexity During Error	1=Less than 2 units of information
		2=More than 2 and less than 5 units
		3=More than 5 and less than 8 units
		4=More than 8 units
		9=No Visual Display
Z52	Visual Format During Error	1=Text Only
		2=Pictorial/Iconic Only
		3=Combination
		9=No Visual Display
Z53	Display Location	1=Top of Center Column
		2=Bottom of Center Column
		9=No Visual Display

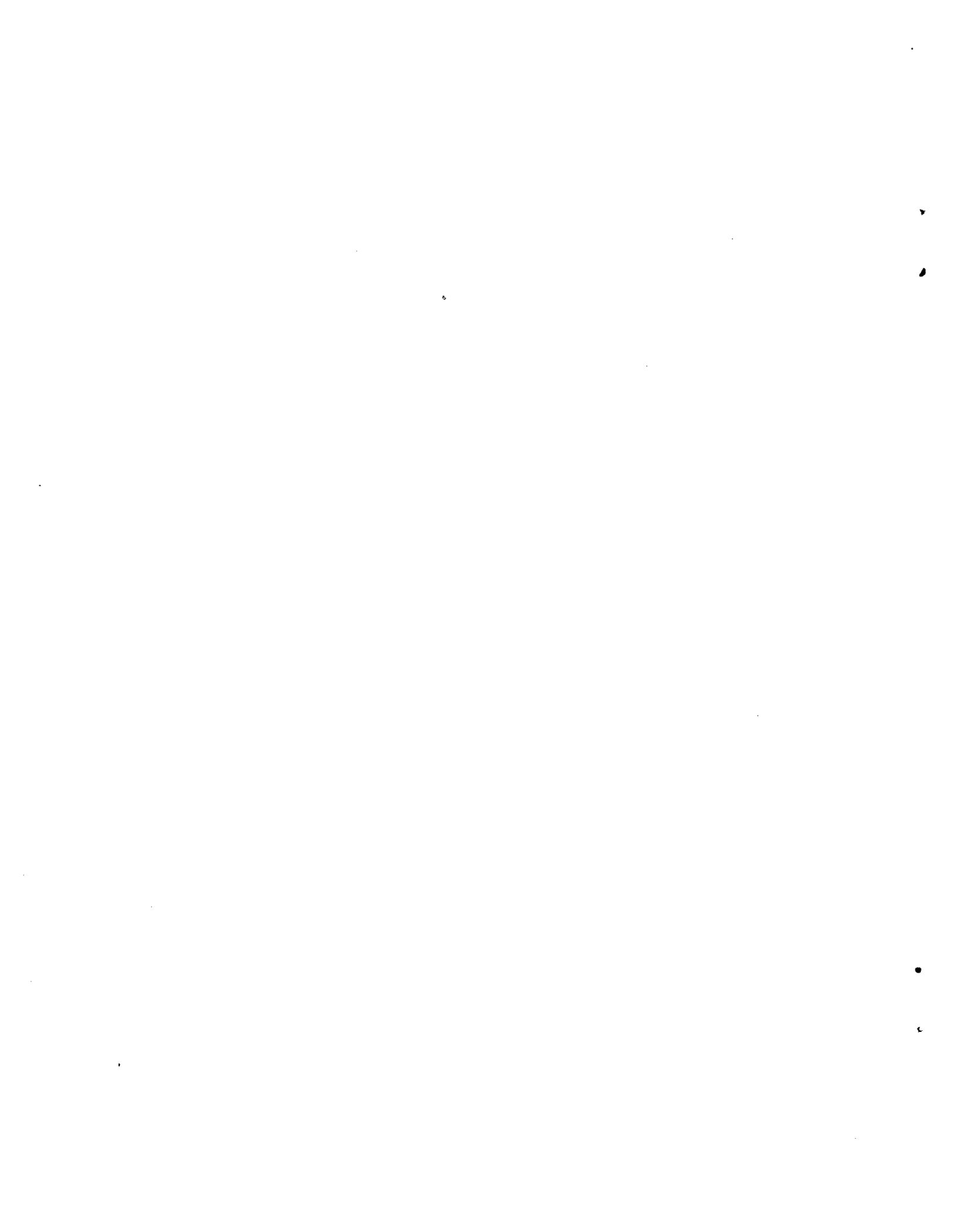
Z54	Display Sensory Mode During Error (TravTek)	1=Visual Only
		2=Auditory Only
		3=Combo Visual and Auditory
		8=Other
		9=No Display
Z55	Auditory Presentation	Was an auditory message/signal presented just before or during error?
		0=No Auditory Display
		1=Speech
		2=Earcon or Tone/Chime
		3=Warning Signal
		4=Combination
Z56	Control Manipulation During Error	1=Destination Input
		2=Change Nav Display
		3=Replan
		4=Volume/Brightness
		5=Zoom In/Out
		6=Hop Left/Right
		7=Repeat Msg
		8=Non-system Related Control
		98=Other
		99=No Control Manipulation
Z57	Control Type Manipulated During Error	1=Rotary knob
		2=Rotary selector switch
		3=Thumbwheel
		4=Track ball
		5=Joystick
		6=Toggle switch
		7=Rocker Switch
		8=Push button
		9=Slide
		10=Touch Screen
		98=Other
		99=No Control Manipulation
Z58	Location of Control Manipulated During Error	1=Steering Wheel
		2=Dash by Display
		3=Dash Independent of Display
		4=Display Face (Touch Screen)
		8=Other
		9=No Control Manipulation

Z59	Number of Glances to Display One Minute Prior to Error (TravTek)	XX=Actual Number of Glances (2 dig max)
Z60	Experimenter/Subject Communications During Error	1=Subject asking experimenter question
		2=Experimenter asking subject question
		3=During workload report
		8=Other
		9=No communication during error
Z61	Last Reported Workload (psych stress) (TravTek)	1=Low
		2=Medium
		3=High
		9=No Workload Reported
Z62	Last Reported Workload (visual effort) (TravTek)	1=Low
		2=Medium
		3=High
		9=No Workload Reported
Z63	Last Reported Workload (time stress) (TravTek)	1=Low
		2=Medium
		3=High
		9=No Workload Reported
Z64	Driver Off Route During Error? (TravTek)	0=No
		1=Yes
Z65	Traffic Density	1=Low
		2=Medium
		3=High
		9=No Traffic Density Report
Z66	Attention Directed Towards System During Error (TravTek)	0=No
		1=Yes
Z67	Error severity potential (TravTek, TCT Lit)	1=Minor: Potential for a crash occurring in which only property damage would likely occur [e.g., hitting a curb due to a lane deviation at 40 km/h (25 mi/h) and damaging a rim, but not causing physical harm to the driver].
		2=Marginal: Potential for a crash where injuries are feasible, but would not likely be severe enough to require hospitalization [e.g., side-swiping a car at 56 km/h (35 mi/h) because of a lane deviation].

		3=Critical: Potential for crash where injuries are severe enough to require overnight (or longer) hospitalization. The injuries, however, would not likely be permanently disabling. [e.g., running two-way stop signs in a residential area where the speed
		4=Catestrophic: Potential for a crash where a fatality or permanent disabling injury is likely to occur (e.g., head-on collision or running a red light on a multilane road with a 72 km/h (45 mi/h) speed limit.
Z68	Estimated Minimum Time to Collision (TTC) (TCT Lit)	Calculated when distance and information/speed information is providedXX.X=Estimated time to collision (in seconds) with vehicle, object, or pedestrian
		99.9=No imminent collision



		3=Critical: Potential for crash where injuries are severe enough to require overnight (or longer) hospitalization. The injuries, however, would not likely be permanently disabling. [e.g., running two-way stop signs in a residential area where the speed
		4=Catestrophic: Potential for a crash where a fatality or permanent disabling injury is likely to occur (e.g., head-on collision or running a red light on a multilane road with a 72 km/h (45 mi/h) speed limit.
Z68	Estimated Minimum Time to Collision (TTC) (TCT Lit)	Calculated when distance and information/speed information is providedXX.X=Estimated time to collision (in seconds) with vehicle, object, or pedestrian
		99.9=No imminent collision



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