# Learning to generalize Dispatching rules on the Job Shop Scheduling

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#### **Abstract**

This paper introduces a Reinforcement Learning approach to better generalize heuristic dispatching rules on the Job-shop Scheduling Problem (JSP). Current models on the JSP do not focus on generalization, although, as we show in this work, this is key to learning better heuristics on the problem. A well-known technique to improve generalization is to learn on increasingly complex instances using Curriculum Learning (CL). However, as many works in the literature indicate, this technique might suffer from catastrophic forgetting when transferring the learned skills between different problem sizes. To address this issue, we introduce a novel Adversarial Curriculum Learning (ACL) strategy, which dynamically adjusts the difficulty level during the learning process to revisit the worst-performing instances. This work also presents a deep learning model to solve the JSP, which is equivariant w.r.t. the job definition and size-agnostic. Conducted experiments on Taillard's and Demirkol's instances show that the presented approach significantly improves the current state-of-the-art models on the JSP. It reduces the average optimality gap from 19.35% to 10.46% on Taillard's instances and from 38.43% to 18.85% on Demirkol's instances. Our implementation is available online <sup>2</sup>.

# 1 Introduction

The Job Shop Scheduling Problem (JSP) is a combinatorial problem with vast implications for scheduling optimization of real-world tasks. It is formulated as a set of jobs, each consisting of a set of operations, to be processed on a set of heterogeneous machines in the shortest possible time. Furthermore, each operation is described with two features: the specific machine each operation shall be assigned to and the operational time it takes to complete the operation. The above formulation applies to any economic task concerned with the optimal assignment of capital goods versus means of production, i.e., education, research, manufacturing, storage, transportation, sales, etc. However, JSP is an NP-hard combinatorial problem, which usually means that solving them optimally is impractical. Thus, there are two basic approaches to finding an approximate solution for this class of problems. The first approach consists of various optimization methods, including integer programming, constraint programming, or meta-heuristic algorithms. However, those are computationally expensive methods. The second approach is to employ hand-engineered heuristics that provide flexibility to react to unexpected events in the scheduling plan.

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<sup>&</sup>lt;sup>2</sup>https://github.com/Optimization-and-Machine-Learning-Lab/Job-Shop/tree/main\_nips

Designing such heuristic rules is a daunting task that requires specialized knowledge of the problem. For example, Priority Dispatch Rules (PDRs) are a family of scheduling heuristics that are fast and easy to implement but computationally expensive. They are also sensitive to the initialization of the problem's instances. Therefore, researchers started to gravitate toward Reinforcement Learning (RL) to discover well-behaved domain-specific heuristics automatically. Unlike PDRs, RL uses instance information to particularize a solution strategy and has already demonstrated promising results [27, 17], though the problem of generalization is yet to be addressed.

In this paper we provide a nostrum for generalization on the JSP using deep RL. To this end, we design a problem-specific architecture and novel training approach that stress this direction. Our main contributions are summarized below:

- This work presents a **deep learning model** to solve the JSP. Particularly, we address the JSP as a Markov Decision Process (MDP), in which the model iteratively constructs a solution based on the operations that are yet to be scheduled, as well as on the state on the problem resolution. The model is equivariant w.r.t. the job information and size-agnostic, enabling us to train the model on different problem sizes. It is key for the generalization study we perform in this paper.
- We also present Adversarial Curriculum Learning (ACL), a novel curriculum strategy to
  improve generalization based on adversarial instances. Curriculum learning (CL) used to
  suffer from catastrophic forgetting when transferring the learned skills between different
  problem sizes. To address this issue, we propose ACL, a learning strategy that dynamically
  reinforces the model on worst-performing instances. Conducted experiments show this
  strategy presents an improvement in the difficulty selection when compared to previous CL
  approaches.

The aforesaid ideas deliver an improvement in performance and generalization when compared to state-of-the-art works on JSP [27, 23]. Notably, we reduce the optimality gap from 19.35% to 10.46% on Taillard's instances and from 38.43% to 18.85% on Demirkol's instances.

#### 2 Related work

First attempts of using RL to address scheduling problems date back to the 90s [12, 13, 29]. On specific relevance is Zhang and Dietterich's paper [29] on allocating resources for NASA shuttle missions. As it was reflected in the literature, one of the advantages of using RL for such a purpose is that it can be seamlessly used for static, dynamic [5, 1] or stochastic variants of the problem. However, due to the complexity of the problems addressed, it could only be applied to small instances of the problem, limiting its applicability significantly.

The rise of deep learning allowed to extrapolate this technique to more realistic problem instances. Prior works particularized deep neural networks, e.g., Pointer Networks [22], to learn in combinatorial spaces. In [2], deep RL was implemented for the first time to learn *end-to-end* solutions to combinatorial problems. The authors used the Pointer Network in an actor-critic architecture to address the Travelling Salesman Problem. Further studies implemented Transformer networks [4, 20, 7]. However, all these works share in common that they are based on sequence-to-sequence models, where the complete solution is output at once. Thereby, heavy sampling and searching techniques were required at interference to improve the solution. Our approach is in line with [15], where the Vehicle Routing Problem is described as a Markov Decision Process, and the solution is iteratively constructed based on sequential decisions.

In the particular case of the JSP, several techniques have been applied to learn on it. Imitation learning was used in [6] to learn from optimal solutions on training instances that were labeled using a Mixed-Integer Programming (MIP) solver. RL has also been applied to the problem, e.g., to select pre-defined candidate PDRs according to the scheduling conditions [1, 9]. Other works have addressed the problem from a multi-agent perspective, e.g., in cooperative manufacturing [5, 25] where each agent controls a production line. Moreover, numerous examples of scheduling in many application domains, including manufacturing [9, 23], distributed computing [14, 28, 18] or supply chains. Despite the effort, many of these approaches do not beat heuristics. In addition, a major limitation in many of these works is that the state representation is hard-bounded by some factors

(e.g., size of jobs or number of operations to consider), not enabling to scale the solution to arbitrary problem sizes.

Zhang et al. [27] presented a size-agnostic model that allows generalizing on different instance sizes. They formulate the JSP as a disjunctive graph and use a high discriminative Graph Isomorphism Network (GIN) to embed the states in the resolution procedure. They prove to capture raw features from small problem instances and manage to successfully extrapolate to much larger instances. Even though graph neural networks have shown unprecedented success embedding not-euclidean spaces, this embedding does not capture the most relevant information to design constructive heuristics on scheduling problems and the features of the remaining operations.

One of the key features that improve the generalization capabilities of a model is the use of CL; this aspect has been pointed out several times in the literature. E.g. [30] employs transfer learning to reconstruct the trained policies on problems of different sizes. However, policy transfer is still relatively costly and inconvenient. Also, [11] uses lifelong learning, where an agent will not only learn to optimize one specific problem instance but reuse what it has learned from previous instances. They also proposed a parallel training method that combines asynchronous updates with a deep deterministic policy gradient to speed up model training. In [10], the authors use an improved CL strategy with an adaptive staircase mechanism, where, at each iteration, the model can change the difficulty level, i.e., go the previous level, stay at the same level, or advance to the next one. In our work, we build on top of this idea, tracking the model's behavior at each stage, allowing it to jump to the worst-performing levels.

#### 3 Method

**Problem formulation.** In the deterministic JSP, a finite set of n jobs  $\{J_i\}_{i=1}^n$  are to be processed on a finite set of m machines  $\{M_j\}_{j=0}^m$ . Each job  $J_i$  consists of a chain of m operations  $O_{i,1} \to \dots \to O_{i,m}$ , that have to be processed in a predetermined order. For each operation  $O_{i,j}$ , the machine assigned  $M_{i,j}$  and the duration time  $D_{i,j}$  are given, and constitute the definition of the problem instance. This problem aims to define the scheduling order of the operations such that the total execution period (makespan) is minimized.

Constraints. Several constraints have to be taken into account. The no-overlap constraint determines that each machine can process one operation at a time; once an operation initiates processing on a given machine, it must be completed without interruption. In addition, the precedence constraints establish that the order of operations inside a job  $J_i$ , an operation  $O_{i,j}$  cannot be scheduled until the previous operation in the job  $O_{i,j-1}$  finishes.

#### 3.1 Learning the policy

The complete schedule consists of  $n\cdot m$  dispatches that must be assigned sequentially. To this end, we build an autoregressive model that, given an instance of the problem x, iteratively constructs the solution, and the operations are dispatched one at a time according to the scheduling policy. This is, at a decision step t, the model  $\pi_{\theta}(a|s_t,x_b)$  takes as an input the instance definition and the state  $s_t$  on the resolution process (state of the machines, or dynamic input of the model shown on 1 and outputs the probability distribution for taking action  $a_t$  at that time in the resolution process. The selected operation is scheduled, and the next state  $s_{t+1}$  is obtained. The process repeats until all pending operations are scheduled. At that point, the solution y is defined as the sequence of selected actions  $a_1, a_2, ..., a_{n \cdot m}$ .

We define the makespan as the maximum total execution time denoted by  $\mathcal{T}^{\pi}(x)$ . The reward function  $R_t(s_t, a_t)$  is computed as the difference between execution times in two consecutive states  $s_t$  and  $s_{t+1}$ . That is, the sum of all collected rewards is equal to the makespan. Furthermore, we resort to policy gradient methods of Reinforce Algorithm in [26] to infer the model  $\pi_{\theta}(a|s_t,x)$ , such that  $\min \mathbb{E}[\mathcal{T}^{\pi}(x)]$ . We train the model updating the gradients as follows,

$$\nabla_{\theta} \hat{J}^{\pi}(\theta) \approx -\frac{1}{B} \sum_{b=1}^{B} \sum_{t=1}^{n \cdot m} \left( (G(s_t, x_b) - v_{\phi}(s_t, x_b)) \cdot \nabla_{\theta} \log \pi_{\theta}(a_t | s_t, x_b) \right).$$

Additionally, in order to reduce the variance of the gradients, and therefore, to speed up the convergence, we also introduce a critic to estimate the baseline for the problem instances  $v_{\phi}$ , which is parameterized using  $\phi$ , and it is trained to minimize

$$L(\phi) = \frac{1}{B} \sum_{b=1}^{B} \sum_{t=1}^{n \cdot m} ||v_{\phi}(s_t, x_b) - G(s_t, x_b)||^2,$$

where  $v_{\phi}(s_t, x_b)$  is the estimate of the value function at state  $s_t$ , and

$$G(s_t, x_b) = \sum_{t=0}^{n \cdot m} R_t$$

is the actual accumulated expected reward starting at step t until all  $n \cdot m$  operations are dispatched.

#### 3.2 Inference strategies

So far, we have defined the policy function  $\pi$ , giving the distribution of possible actions at each step, as well as the learning algorithm. However, as discussed in the literature, many works rely on decoding strategies at inference to improve the greedy algorithm's results. In this paper, we consider the following strategies:

**Sampling**. In sampling strategy actions are randomly chosen from the policy distribution, i.e.  $a_t \sim \pi_\theta(\cdot|s_t,x_b)$ . This way, the proposed actions for the same state and instance may differ. In order for the *Sampling* strategy to outperform *Greedy*, it requires fine-tuning of the number of training iterations.

**POMO.** Policy Optimization with Multiple Optima (POMO) incorporates both ideas of *Greedy* and *Sampling*. At the initial state  $s_0$ , it rolls out several actions  $\{a_0^{(1)}, a_0^{(2)}, ...\}$  creating several possible trajectories  $\{s_1^{(1)}, s_1^{(2)}, ...\}$ , and then developing these trajectories *greedily*. In [8], authors demonstrate that, for some combinatorial problems, this approach delivers better results when compared to *Sampling*.

**Beam search.** This strategy greedily chooses k actions  $\{a_0^{(1)},...,a_0^{(k)}\}$  at the initial state  $s_0$ . This leads to forming k trajectories  $\{s_1^{(1)},...,s_1^{(k)}\}$ . Then, at each trajectory, new set of k actions is rolled out, and the total number of actions becomes  $k \times k$ . At this point, the likelihood of each action is calculated, and the strategy greedily chooses the next k actions. This way, Beam explores the k most-likely trajectories at-each-step.

#### 4 Architecture

**Top view of architecture.** The architecture we propose in this paper is depicted in Fig. 1(a). This model is size-agnostic with regard to the input of a problem, demonstrates close-to-optimal performance, and generalizes well. Our model combines a deep learning preprocessing of input with an actor-critic network. The input consists of two branches: dynamic  $s_t^{(2)}$  and static  $O_{i,j}^{(2)}$ . Dynamic input carries the information regarding the current load of the machines and their remaining times, while the static input propagates information operation-wise and job-wise within an instance of JSP. To make the model size agnostic, we pass both inputs through a fully-connected layer to get their multidimensional embeddings. Then static embedding is independently preprocessed in a recurrent manner and concatenated with dynamic embedding, followed by the pass into the RL network.

**Job encoding.** Considering that scheduling an operation at a time t depends only on the successive operations, we employ reverse LSTM shown in Fig. 1(b), which propagates information starting from the last operation in this job till the current operation. Here  $e_{(i,j)}$  is the embedding of the operation  $O_{i,j}$  that is currently to be scheduled, and  $e_{(i,j+1)}$ ,  $e_{(i,j+2)}$  are the embeddings of the following operations in the same job. The output of the reverse LSTM  $e_{(i,j)}$  is lastly passed to set2set neural network.

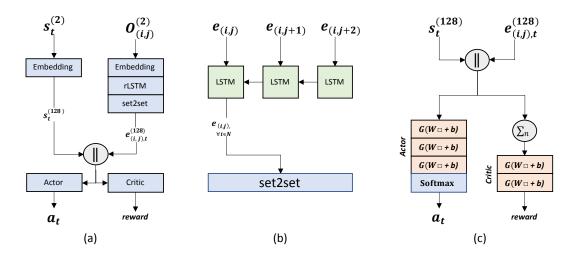


Figure 1: Deep learning model for the JSP. (a) Represents the top view of the model showing all the processes involved in the model from getting static and dynamic inputs of the instance till getting action and expected reward. (b) Represents the reverse LSTM block used to combine intra-job information by reversing operation embeddings. (c) Represents the concatenation of the static and dynamic embeddings and Actor-Critic block.

**Set2set and dynamic embeddings.** We use set2set [21] to combine the embeddings into a single global embedding disregarding the previous positioning in the jobs' sequence. Then, we attend to the fact that the problem instance on the input contains static information only. To follow the dynamic changes in the solution, we create two dynamic features for each machine: occupancy status at time t and time to finish the current operation. Both features are combined in  $s_t^{(2)}$  dynamic input and pass through a fully-connected layer to get multidimensional embedding. In our model, dynamic embeddings are distributed over operations depending on which machine is the last in use in every job. Finally, both dynamic and static embeddings are concatenated and passed to the Actor-Critic network.

#### 5 Improving generalization using Curriculum Learning

CL is a methodology for training on data of increasing difficulty that mimics the approach of social and educational systems to build a curricula [24]. There are several ways to construct the difficulty staircase and define rules for selecting the difficulty level during the training. In this work, we consider the following strategies:

**Incremental Curriculum Learning (ICL).** Incremental CL sequentially trains the model on increasing difficulty levels. In the case of the JSP, we learn a separate model for each problem size for a fixed number of learning steps. However, as mentioned in [10], the model is prone to experience catastrophic forgetting during the learning. Moreover, the number of models will equal the number of considered problem sizes (levels).

**Uniform Curriculum Learning (UCL).** In uniform CL, the model chooses at each iteration the problem level from a uniform distribution over considered sizes. It allows the model to learn policies inherent to different problem levels instead of incremental learning. However, as a rule, learning from tasks of small size is more accessible, so choosing a level from all sizes with uniform distribution at once may not be the most helpful learning strategy.

Adaptive Staircase Curriculum Learning (ASCL). Adaptive staircase is introduced for RL in [10]. This method is based on a supple choice of the next difficulty level. The model starts training from the smallest considered level  $l = l_{min}$ . Every  $i^{th}$  iteration, one checks the model's performance on test data. Depending on the model's performance on the current l data, the method proposes to go upwards to l = l + 1, decrease the difficulty to l = l - 1, or continue at l. It allows the model to start learning from the simplest policies and then sequentially increase the difficulty level. It

Table 1: Base learning on Taillard's instances. Columns represent different models trained on certain size, rows represent Taillard's data sizes. **Objective** shown as an average total time of schedules for a given size and **Gap** as an average percentage difference from optimal solutions (the less the gap the better result is)

|          | Instances |             | (15×15)            | (20×15)            | (20×20)            | (30×15)            | (30×20)            |
|----------|-----------|-------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|          | 15×15     | Obj.<br>Gap | 1413.0<br>(14.98%) | 1461.8<br>(18.97%) | 1452.6<br>(18.23%) | 1470.8<br>(19.7%)  | 1481.5<br>(20.59%) |
|          | 20×15     | Obj.<br>Gap | 1606.6<br>(17.69%) | 1692.1<br>(23.97%) | 1692.1<br>(23.99%) | 1696.3<br>(24.29%) | 1710.2<br>(25.31%) |
| •        | 20×20     | Obj.<br>Gap | 1898.1<br>(17.37%) | 1964.5<br>(21.49%) | 1958.4<br>(21.11%) | 1989.8<br>(23.04%) | 2029.4<br>(25.47%) |
| TAILLARD | 30×15     | Obj.<br>Gap | 2153.0<br>(20.41%) | 2251.8<br>(25.86%) | 2256.2<br>(26.14%) | 2275.3<br>(27.19%) | 2276.2<br>(27.27%) |
| TA]      | 30×20     | Obj.<br>Gap | 2375.6<br>(21.92%) | 2517.7<br>(29.22%) | 2503.8<br>(28.52%) | 2516.6<br>(29.19%) | 2540.2<br>(30.4%)  |
|          | 50×15     | Obj.<br>Gap | 3207.0<br>(15.67%) | 3356.7<br>(21.07%) | 3362.6<br>(21.27%) | 3336.4<br>(20.33%) | 3346.7<br>(20.69%) |
|          | 50×20     | Obj.<br>Gap | 3297.4<br>(15.95%) | 3476.0<br>(22.25%) | 3473.8<br>(22.15%) | 3496.2<br>(22.96%) | 3518.0<br>(23.73%) |
|          | 100×20    | Obj.<br>Gap | 5879.9<br>(9.58%)  | 6120.9<br>(14.06%) | 6110.1<br>(13.86%) | 6153.5<br>(14.67%) | 6145.5<br>(14.52%) |

solves problems of incremental and unform learning strategies. However, one checks the model's performance at the current level and shifts level only with a step size equal to one. This approach does not estimate the model's generalization performance on other levels.

Adversarial Curriculum Learning (ACL). In this work, we propose ACL as a technique to improve the model's generalization performance. Like in ASCL, the agent is trained on a job with the current difficulty level l starting from the smallest problem size  $l_{min}$ . However, decisions to update a level are taken more adaptively. Every  $i_{th}$  iteration, one observes the performance (rewards) of the model on all considered problem levels. It calculates normalized probabilities of their percentage deviations from optimal solutions' rewards. Then, it randomly chooses the problem level from the list of levels up to the current one, following this distribution's probabilities. This sampling procedure is repeated on every iteration, and the model is trained on chosen level's instance. After getting a percentage gap on l size data less than a threshold value, the level is raised to l+1. Otherwise, one decreases l to a random smaller size using the distribution of performance gap probabilities. This algorithm generalizes the ASCL method's decision of level backtrack and instance choice for training. Thus, ASCL is a particular case of ACL, where the latter allows the model to focus on the most adversarial sizes.

#### 6 Experimentation

**Datasets.** We train and evaluate our model on scheduling instances of below sizes generated from Taillard's [19] and Demirkol's (DMU) [3] instances:  $6 \times 6$ ,  $10 \times 10$ ,  $15 \times 15$ ,  $20 \times 15$ ,  $20 \times 20$ ,  $30 \times 20$  and  $30 \times 15$ . To test a generalization of the model, we use substantially larger instances that are not included in the training set:  $50 \times 15$ ,  $50 \times 20$ , and  $100 \times 20$ .

**Baselines and base models.** For the choice of *baseline models*, we resort to the analysis of priority dispatch rules (PDRs) in [16] and choose the best performing PDRs, as well as the most popular ones in the research community: Shortest Processing Time (SPT), Minimum Ratio of Flow Due Date to Most Work Remaining (FDD/WKR), Most Work Remaining (MWKR), Most Operations Remaining (MOPNR). Among neural combinatorial solvers, we use the latest state-of-the-art results of the Graph Neural Model on public JSP benchmarks presented in [27]. For comparison with the optimal solution, we refer to Google OR-Tools, the exact solver built on constraint programming. We also introduce the notion of *base model* which has the architecture shown at Fig. 1(a) and uses *Sampling* strategy for selection action.

| Table 2: Incremental learning | ng on Taillard's instances. |
|-------------------------------|-----------------------------|
|-------------------------------|-----------------------------|

|          | Instances |             | (15×15)            | (20×15)            | $(20\times20)$     | $(30\times15)$     | $(30\times20)$     |
|----------|-----------|-------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|          | 15×15     | Obj.<br>Gap | 1413.0<br>(14.98%) | 1398.1<br>(13.76%) | 1408.5<br>(14.61%) | 1431.1<br>(16.48%) | 1435.7<br>(16.83%) |
|          | 20×15     | Obj.<br>Gap | 1606.6<br>(17.69%) | 1588.1<br>(16.34%) | 1597.7<br>(17.06%) | 1653.9<br>(21.17%) | 1657.1<br>(21.41%) |
| 0        | 20×20     | Obj.<br>Gap | 1898.1<br>(17.37%) | 1875.8<br>(15.98%) | 1892.3<br>(17.01%) | 1929.8<br>(19.34%) | 1929.4<br>(19.29%) |
| TAILLARD | 30×15     | Obj.<br>Gap | 2153.0<br>(20.41%) | 2123.7<br>(18.78%) | 2163.4<br>(20.99%) | 2187.7<br>(22.35%) | 2229.6<br>(24.66%) |
| TA]      | 30×20     | Obj.<br>Gap | 2375.6<br>(21.92%) | 2356.2<br>(20.94%) | 2388.4<br>(22.61%) | 2429.1<br>(24.68%) | 2455.0<br>(26.01%) |
|          | 50×15     | Obj.<br>Gap | 3207.0<br>(15.67%) | 3189.0<br>(15.02%) | 3226.0<br>(16.35%) | 3264.9<br>(17.77%) | 3261.8<br>(17.64%) |
|          | 50×20     | Obj.<br>Gap | 3297.4<br>(15.95%) | 3276.3<br>(15.22%) | 3326.7<br>(17.0%)  | 3337.8<br>(17.37%) | 3384.4<br>(19.01%) |
|          | 100×20    | Obj.<br>Gap | 5879.9<br>(9.58%)  | 5851.9<br>(9.05%)  | 5949.0<br>(10.86%) | 5993.4<br>(11.68%) | 6036.8<br>(12.5%)  |

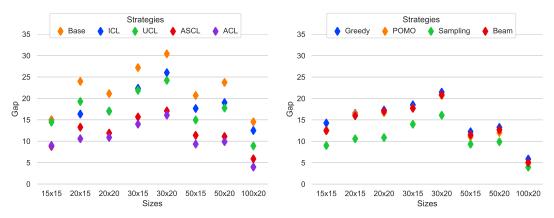


Figure 2: CL and Base models results on Taillard's instances.

Figure 3: Different sampling strategies results on Taillard's instances.

#### 6.1 Results

The implementation details can be found in Appendix A.

First, we train five instances of the base model on five small-to-medium sizes: 15x15, 20x15, 20x20, 30x15, and 30x20. Each instance of the base model is dedicated to one of five problem sizes. Then, we test all base model instances on an extended set of sizes, adding 50x15, 50x20, and 100x20 to assess generalization. The results in table 1 reflect dominating performance of the base model trained on the smallest size, 15x15. It shows the smallest optimality gap on all testing sizes, from 14.98% for 15x15 to 9.58% for 100x20. However, the model's generalization can be improved further, as the base model trained on a small size can hardly capture all combinatorial space of action policies inherent in large-size problems.

Next, we address generalization by incorporating and comparing different CL methods. We start with ICL, for which we train five instances of the base model in the following manner: the model assigned to the 15x15 size is trained on this size only, the model assigned to 20x15 is trained sequentially on the previous size, which in this case 15x15, and on its assigned 20x15 size. The same logic applies for all sizes up to 30x20, and each learning cycle takes n iterations. Table 2 shows the results of this approach. Here, the 20x15 model, being trained consecutively on 15x15 and 20x15 sizes, exhibits the best performance reducing the average gap to 9.05% for 100x20 problem instances. ICL

Table 3: Results of Baseline and ACL models on Taillard's insances.

|          | Instances |             | SPT                | FDD/WKR            | MWKR               | MOPNR              | Zhang et al.       | Adversarial CL     |
|----------|-----------|-------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|          | 15×15     | Obj.<br>Gap | 1546.1<br>(25.89%) | 1808.6<br>(47.15%) | 1464.3<br>(19.15%) | 1481.3<br>(20.53%) | 1547.4<br>(25.96%) | 1339.8<br>(9.02%)  |
|          | 20×15     | Obj.<br>Gap | 1813.5<br>(32.82%) | 2054.0<br>(50.57%) | 1683.6<br>(23.35%) | 1686.7<br>(23.55%) | 1774.7<br>(30.03%) | 1509.3<br>(10.58%) |
|          | 20×20     | Obj.<br>Gap | 2067.0<br>(27.75%) | 2387.2<br>(47.61%) | 1969.8<br>(21.81%) | 1968.3<br>(21.71%) | 2128.1<br>(31.61%) | 1793.1<br>(10.87%) |
| TAILLARD | 30×15     | Obj.<br>Gap | 2419.3<br>(35.27%) | 2590.8<br>(45.02%) | 2214.8<br>(23.91%) | 2195.8<br>(22.83%) | 2378.8<br>(33.0%)  | 2038.1<br>(13.98%) |
| TAI      | 30×20     | Obj.<br>Gap | 2619.1<br>(34.44%) | 3045.0<br>(56.3%)  | 2439.0<br>(25.17%) | 2433.6<br>(24.94%) | 2603.9<br>(33.62%) | 2261.5<br>(16.09%) |
|          | 50×15     | Obj.<br>Gap | 3441.0<br>(24.11%) | 3736.3<br>(34.77%) | 3240.0<br>(16.86%) | 3254.5<br>(17.37%) | 3393.8<br>(22.38%) | 3030.8<br>(9.32%)  |
|          | 50×20     | Obj.<br>Gap | 3570.8<br>(25.54%) | 4022.1<br>(41.5%)  | 3352.8<br>(17.95%) | 3346.9<br>(17.68%) | 3593.9<br>(26.51%) | 3125.1<br>(9.89%)  |
|          | 100×20    | Obj.<br>Gap | 6139.0<br>(14.41%) | 6620.7<br>(23.39%) | 5812.2<br>(8.31%)  | 5856.9<br>(9.15%)  | 6097.6<br>(13.61%) | 5578.9<br>(3.96%)  |

also improves performance for all model instances on their subsequent problem sizes compared to corresponding base models. However, the ICL approach has an obvious drawback. This drawback comes from the fact that the best performance is achieved on a smaller-size model, 20x15, meaning that the larger-size models are not learning the policies.

To address the problem of ICL, we compare it to three other types of CL (Figure 2). One can see that UCL generally shows near-ICL behavior, while both adaptive and adversarial models demonstrate notably better performance. Particularly, ACL shows the smallest optimality gap on all test sizes, except for 15x15, where ASCL slightly outperforms ACL by 0.24%. The adversarial approach displays the smallest optimality gap from 10.58% for 20x15 instances to 3.96% for 100x20 instances.

We also provide a comparison of different inference strategies on ACL as the best-performing learning methodology. Figure 3 presents a comparison of *Greedy, POMO, Sampling and Beam* methods. For POMO and Beam, we use three possible trajectories. Both strategies demonstrate approximately similar results. The Greedy algorithm displays slightly worse performance because it is the special case of Beam search. The sampling strategy shows the best result on all test sizes, and, consequently, we use it for all experiments.

At this point, we incorporate ACL for training strategy and Sampling for selection strategy to compare its overall performance versus aforesaid baselines. Table 3 provides the comparison results on Taillard's dataset. The Adversarial model displays robust behavior on all test sizes, improving previous best results on average by 45.94%. This model shows a gap of 9.02% to 13.98% on all the sizes except for 100x20, where all compared models demonstrate relatively good performance. The reason for such observation may be the fact that Taiilard's dataset has relatively simple instances on 100x20 size.

To further test our model, we refer to DMU dataset consisting of 80 instances from 20x15 to 50x20 sizes. Table 4 shows outperforming behavior of Adversarial model again. On average, it improves previous best results by 50.95%. However, absolute values of the optimality gap are higher for this data and in the range of 14.66% to 25.42%. It may be the result of DMU benchmark consisting of more complex instances compared to Taillard. Results of other models also confirm this fact on all test sizes.

The complete experimentation on the Taillard and DMU instances is deferred to Appendix B.

#### 7 Conclusions and Future Work

In this work, we present a deep-RL model to automatically learn heuristic dispatching rules on the JSP. To this end, we formulate the resolution process as a Markov Decision Process, in which solutions are iteratively constructed based on intermediate states of the resolution process. In this work, we present a model that is equivariant w.r.t. the job information and size-agnostic, i.e., it

Table 4: Results of Baseline and ACL models on DMU instances.

|     | Instances |             | SPT                | FDD/WKR            | MWKR               | MOPNR              | Zhang et al.       | Adversarial CL     |
|-----|-----------|-------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|     | 20×15     | Obj.<br>Gap | 4951.5<br>(64.13%) | 4666.3<br>(53.57%) | 4909.9<br>(62.15%) | 4513.2<br>(49.16%) | 4215.3<br>(38.95%) | 3610.0<br>(19.36%) |
|     | 20×20     | Obj.<br>Gap | 5690.5<br>(64.57%) | 5298.2<br>(52.52%) | 5489.0<br>(58.16%) | 5052.3<br>(45.17%) | 4804.5<br>(37.74%) | 4028.9<br>(15.98%) |
|     | 30×15     | Obj.<br>Gap | 6306.2<br>(62.57%) | 6016.5<br>(54.12%) | 6252.9<br>(60.95%) | 5742.8<br>(47.14%) | 5557.9<br>(41.86%) | 4522.0<br>(16.35%) |
| DMU | 30×20     | Obj.<br>Gap | 7036.0<br>(65.91%) | 6827.3<br>(60.09%) | 6925.0<br>(63.16%) | 6491.9<br>(51.97%) | 5967.4<br>(39.48%) | 5106.0<br>(20.0%)  |
| Д   | 40×15     | Obj.<br>Gap | 7601.2<br>(55.88%) | 7420.0<br>(51.42%) | 7484.2<br>(52.87%) | 7105.5<br>(44.72%) | 6663.9<br>(35.38%) | 5731.9<br>(17.49%) |
|     | 40×20     | Obj.<br>Gap | 8538.1<br>(63.0%)  | 8210.9<br>(55.52%) | 8460.9<br>(61.11%) | 7870.7<br>(49.22%) | 7375.8<br>(39.38%) | 6584.1<br>(25.42%) |
|     | 50×15     | Obj.<br>Gap | 8975.4<br>(50.37%) | 9150.2<br>(52.53%) | 8906.0<br>(48.93%) | 8436.5<br>(40.79%) | 8179.4<br>(36.2%)  | 7242.1<br>(21.54%) |
|     | 50×20     | Obj.<br>Gap | 10132.8<br>(62.2%) | 9899.6<br>(57.26%) | 9807.0<br>(56.4%)  | 9408.0<br>(49.61%) | 8751.6<br>(38.86%) | 7176.9<br>(14.66%) |

enables us to train the model on instances of the JSP of different sizes. In order to improve the generalization of the model, this work uses Curriculum Learning. In this direction, we present a novel ACL strategy, which dynamically adjusts the difficulty of the learning instances according to the model's performance during the learning process. Experiments on Taillard's and Demirkol's instances show that our model improves the optimality gap w.r.t. the current state-of-the-art model by 45.94% and 50.95%, respectively. Our results corroborate that the contributions of this paper, the architecture and the ACL, improve the generalization on large sizes. There are several future directions for this work. For example, we would like to remark the potential of this technology for addressing stochastic or partially observable problems, domains where traditional approaches have shown limited capabilities.

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## A Appendix

**Models and configurations.** In this paper, we train networks with hyperparameters being fixed for each problem size and validate each model on 1,000 randomly generated JSP instances which have the same sizes as in Taillard's dataset and remain unchanged throughout the training. For training of both Actor and Critic networks, we use Adam Optimizer with constant  $10^{-4}$  learning rate and batch size of 128.

Our Base, UCL and ICL models are trained for 45000 iterations and then validated. Afterwards, the best performing model is saved. For ACL and ASCL training, every  $100_{th}$  iteration the model is tested on a test data. If during the training, the model is not increasing a difficulty level for consecutive 3000 iterations, ACL algorithm decreases it.

Three random seeds are used during the inference and results are averaged to for final outcome. For Beam and POMO selection strategies, tree-width of 3 is used. For Sampling strategy, the sample size of 128 is used. Embedding size of 128x1 is used for both static and dynamic inputs.

The repository with Python code, results, and descriptions is presented in zip archive. Detailed instructions to reproduce training, evaluation, and potting results are provided in README.md file. The model is built in Python 3.9 using PyTorch library. JSP environment is created using the gym library. Full list of all employed packages and their versions is available in Requirements.txt file stored in the repository. Training is done on NVIDIA A100 SXM 40GB GPU with 2x AMD EPYC 7742 CPUs (128 cores total with 256 threads), and 256GB RAM.

**Technical limitations** of this work relate to high demand of GPU memory when training on large size JSP instances. This potential limitation may require to decrease significantly the batch size.

**Ethical limitations.** In this work, we use synthetic data from two know publicly available datasets, Taillard's and Demirkol's scheduling instances of JSP. Furthermore, our framework is built on principals of societal responsibility and respect towards fellow researchers.

**Datasets.** One can refer to the following publicly available sources:

- Taillard's dataset: http://optimizizer.com/TA.php
- Demirkol's dataset: http://optimizizer.com/DMU.php

# B Appendix

Table 5: CL strategies on Taillard's instances. Columns represent models trained using different Curriculum strategies as well as baseline Zhang's, ICL and base models, rows represent Taillard's data sizes. **Objective** shown as an average total time of schedules for a given size and **Gap** as an average percentage difference from optimal solutions (the less the gap the better result is)

|          | Instances |             | Zhang et al.       | ICL                | Base               | UCL                | ASCL               | ACL                |
|----------|-----------|-------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|          | 15×15     | Obj.<br>Gap | 1547.4<br>(25.96%) | 1413.0<br>(14.98%) | 1413.0<br>(14.98%) | 1406.1<br>(14.45%) | 1336.6<br>(8.78%)  | 1339.8<br>(9.02%)  |
|          | 20×15     | Obj.<br>Gap | 1774.7<br>(30.03%) | 1588.1<br>(16.34%) | 1692.1<br>(23.97%) | 1627.7<br>(19.27%) | 1546.2<br>(13.27%) | 1509.3<br>(10.58%) |
|          | 20×20     | Obj.<br>Gap | 2128.1<br>(31.61%) | 1892.3<br>(17.01%) | 1958.4<br>(21.11%) | 1892.1<br>(17.01%) | 1809.8<br>(11.91%) | 1793.1<br>(10.87%) |
| TAILLARD | 30×15     | Obj.<br>Gap | 2378.8<br>(33.0%)  | 2187.7<br>(22.35%) | 2275.3<br>(27.19%) | 2179.3<br>(21.87%) | 2068.1<br>(15.66%) | 2038.1<br>(13.98%) |
| TAI      | 30×20     | Obj.<br>Gap | 2603.9<br>(33.62%) | 2455.0<br>(26.01%) | 2540.2<br>(30.4%)  | 2419.5<br>(24.2%)  | 2281.0<br>(17.09%) | 2261.5<br>(16.09%) |
|          | 50×15     | Obj.<br>Gap | 3393.8<br>(22.38%) | 3261.8<br>(17.64%) | 3346.7<br>(20.69%) | 3187.5<br>(14.95%) | 3088.1<br>(11.37%) | 3030.8<br>(9.32%)  |
|          | 50×20     | Obj.<br>Gap | 3593.9<br>(26.51%) | 3384.4<br>(19.01%) | 3518.0<br>(23.73%) | 3348.1<br>(17.75%) | 3159.4<br>(11.1%)  | 3125.1<br>(9.89%)  |
|          | 100×20    | Obj.<br>Gap | 6097.6<br>(13.61%) | 6036.8<br>(12.5%)  | 6145.5<br>(14.52%) | 5843.1<br>(8.89%)  | 5682.1<br>(5.89%)  | 5578.9<br>(3.96%)  |

Table 6: Selection strategies on Taillard's instances.

| Instances |      | Greedy   | РОМО     | Sampling | Beam     |
|-----------|------|----------|----------|----------|----------|
| 15×15     | Obj. | 1404.2   | 1381.9   | 1339.8   | 1382.9   |
|           | Gap  | (14.26%) | (12.43%) | (9.02%)  | (12.52%) |
| 20×15     | Obj. | 1590.3   | 1588.6   | 1509.3   | 1582.9   |
|           | Gap  | (16.52%) | (16.4%)  | (10.58%) | (15.97%) |
| 20×20     | Obj. | 1896.5   | 1887.5   | 1793.1   | 1892.1   |
|           | Gap  | (17.27%) | (16.71%) | (10.87%) | (17.01%) |
| TAILLARD  | Obj. | 2118.9   | 2105.0   | 2038.1   | 2104.8   |
| 30×15     | Gap  | (18.52%) | (17.78%) | (13.98%) | (17.7%)  |
| ₹         | Obj. | 2365.7   | 2350.8   | 2261.5   | 2354.0   |
| 30×20     | Gap  | (21.47%) | (20.7%)  | (16.09%) | (20.87%) |
| 50×15     | Obj. | 3111.6   | 3079.1   | 3030.8   | 3090.9   |
|           | Gap  | (12.23%) | (11.08%) | (9.32%)  | (11.5%)  |
| 50×20     | Obj. | 3219.6   | 3185.9   | 3125.1   | 3203.4   |
|           | Gap  | (13.24%) | (12.05%) | (9.89%)  | (12.68%) |
| 100×20    | Obj. | 5680.9   | 5633.3   | 5578.9   | 5637.5   |
|           | Gap  | (5.86%)  | (4.97%)  | (3.96%)  | (5.05%)  |

Table 7: Selection strategies on Taillard's instances.

| I                                      | nstance       | Greedy                         | POMO                           | Sampling                       | Beam                           | UB           |
|----------------------------------------|---------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------|
| Т                                      | Γ <b>A</b> 1  | 1445 (17.38%)                  | 1445 (17.38%)                  | 1379 (12.02%)                  | 1421 (15.43%)                  | 1231         |
| T                                      | TA2           | 1405 (12.94%)                  | 1405 (12.94%)                  | 1325 (6.51%)                   | 1390 (11.74%)                  | 1244         |
| T                                      | TA3           | 1469 (20.61%)                  | 1344 (10.34%)                  | 1338 (9.85%)                   | 1405 (15.35%)                  | 1218         |
| r a                                    | Γ <b>A</b> 4  | 1304 (10.98%)                  | 1304 (10.98%)                  | 1275 (8.51%)                   | 1304 (10.98%)                  | 1175         |
| 1 × 15 × 15 × 15 × 15 × 15 × 15 × 15 × | TA5           | 1345 (9.89%)                   | 1345 (9.89%)                   | 1303 (6.45%)                   | 1326 (8.33%)                   | 1224         |
| Γŝ                                     | TA6           | 1360 (9.85%)                   | 1329 (7.35%)                   | 1325 (7.03%)                   | 1326 (7.11%)                   | 1238         |
|                                        | TA7           | 1426 (16.22%)                  | 1426 (16.22%)                  | 1332 (8.56%)                   | 1400 (14.1%)                   | 1227         |
|                                        | TA8           | 1422 (16.84%)                  | 1355 (11.34%)                  | 1325 (8.87%)                   | 1391 (14.3%)                   | 1217         |
|                                        | TA9           | 1460 (14.6%)                   | 1460 (14.6%)                   | 1412 (10.83%)                  | 1460 (14.6%)                   | 1274         |
|                                        | TA10          | 1406 (13.3%)                   | 1406 (13.3%)                   | 1384 (11.52%)                  | 1406 (13.3%)                   | 1241         |
|                                        | TA11          | 1623 (19.6%)                   | 1623 (19.6%)                   | 1506 (10.98%)                  | 1627 (19.9%)                   | 1357         |
|                                        | TA12          | 1587 (16.09%)                  | 1587 (16.09%)                  | 1514 (10.75%)                  | 1541 (12.73%)                  | 1367         |
|                                        | TA13          | 1617 (20.4%)                   | 1617 (20.4%)                   | 1510 (12.43%)                  | 1614 (20.18%)                  | 1343         |
| $\Gamma$                               | TA14          | 1548 (15.09%)                  | 1548 (15.09%)                  | 1455 (8.18%)                   | 1548 (15.09%)                  | 1345         |
|                                        | TA15          | 1546 (15.46%)                  | 1546 (15.46%)                  | 1516 (13.22%)                  | 1517 (13.29%)                  | 1339         |
| 2 2                                    | TA16          | 1584 (16.47%)                  | 1584 (16.47%)                  | 1485 (9.19%)                   | 1584 (16.47%)                  | 1360         |
|                                        | TA17          | 1698 (16.14%)                  | 1698 (16.14%)                  | 1614 (10.4%)                   | 1698 (16.14%)                  | 1462         |
|                                        | TA18          | 1614 (15.62%)                  | 1597 (14.4%)                   | 1560 (11.75%)                  | 1614 (15.62%)                  | 1396         |
|                                        | TA19          | 1561 (17.19%)                  | 1561 (17.19%)                  | 1451 (8.93%)                   | 1561 (17.19%)                  | 1332         |
| Т                                      | FA20          | 1525 (13.13%)                  | 1525 (13.13%)                  | 1482 (9.94%)                   | 1525 (13.13%)                  | 1348         |
|                                        | TA21          | 1913 (16.5%)                   | 1913 (16.5%)                   | 1838 (11.94%)                  | 1913 (16.5%)                   | 1642         |
|                                        | TA22          | 1853 (15.81%)                  | 1853 (15.81%)                  | 1752 (9.5%)                    | 1811 (13.19%)                  | 1600         |
|                                        | TA23          | 1854 (19.08%)                  | 1837 (17.98%)                  | 1748 (12.27%)                  | 1898 (21.9%)                   | 1557         |
| o T                                    | TA24          | 1907 (16.0%)                   | 1904 (15.82%)                  | 1807 (9.91%)                   | 1905 (15.88%)                  | 1644         |
|                                        | TA25          | 1903 (19.31%)                  | 1903 (19.31%)                  | 1772 (11.1%)                   | 1922 (20.5%)                   | 1595         |
| r g                                    | TA26          | 1944 (18.32%)                  | 1898 (15.52%)                  | 1802 (9.68%)                   | 1944 (18.32%)                  | 1643         |
| T                                      | TA27          | 2001 (19.11%)                  | 2001 (19.11%)                  | 1895 (12.8%)                   | 1998 (18.93%)                  | 1680         |
|                                        | TA28          | 1826 (13.91%)                  | 1826 (13.91%)                  | 1788 (11.54%)                  | 1810 (12.91%)                  | 1603         |
|                                        | TA29          | 1839 (13.17%)                  | 1839 (13.17%)                  | 1753 (7.88%)                   | 1802 (10.89%)                  | 1625         |
| Т                                      | TA30          | 1925 (21.53%)                  | 1901 (20.01%)                  | 1776 (12.12%)                  | 1918 (21.09%)                  | 1584         |
|                                        | TA31          | 2105 (19.33%)                  | 2105 (19.33%)                  | 2028 (14.97%)                  | 2092 (18.59%)                  | 1764         |
|                                        | FA32          | 2163 (21.24%)                  | 2163 (21.24%)                  | 2092 (17.26%)                  | 2183 (22.37%)                  | 1784         |
|                                        | FA33          | 2225 (24.23%)                  | 2175 (21.44%)                  | 2114 (18.03%)                  | 2203 (23.0%)                   | 1791         |
| Υ 1.                                   | TA34          | 2108 (15.32%)                  | 2108 (15.32%)                  | 2077 (13.62%)                  | 2108 (15.32%)                  | 1828         |
| ^                                      | TA35          | 2172 (8.22%)                   | 2115 (5.38%)                   | 2103 (4.78%)                   | 2172 (8.22%)                   | 2007         |
| ဗ္က ၂                                  | TA36          | 2124 (16.77%)                  | 2092 (15.01%)                  | 2046 (12.48%)                  | 2124 (16.77%)                  | 1819         |
|                                        | FA37          | 2208 (24.68%)                  | 2208 (24.68%)                  | 2080 (17.45%)                  | 2138 (20.72%)                  | 1771         |
|                                        | TA38          | 1943 (16.14%)                  | 1943 (16.14%)                  | 1882 (12.49%)                  | 1928 (15.24%)                  | 1673         |
|                                        | ΓA39<br>ΓA40  | 2106 (17.33%)<br>2035 (21.93%) | 2106 (17.33%)<br>2035 (21.93%) | 2029 (13.04%)<br>1930 (15.64%) | 2104 (17.21%)<br>1996 (19.59%) | 1795<br>1669 |
|                                        | TA41          | 2440 (21.7%)                   | 2440 (21.7%)                   | 2356 (17.51%)                  | 2428 (21.1%)                   | 2005         |
|                                        | A42           | 2375 (22.61%)                  | 2375 (22.61%)                  | 2260 (16.68%)                  | 2363 (21.99%)                  | 1937         |
|                                        | TA43          | 2352 (27.41%)                  | 2312 (25.24%)                  | 2163 (17.17%)                  | 2366 (28.17%)                  | 1846         |
| т                                      | A44           | 2464 (24.51%)                  | 2393 (20.92%)                  | 2293 (15.87%)                  | 2440 (23.29%)                  | 1979         |
|                                        | A45           | 2248 (12.4%)                   | 2248 (12.4%)                   | 2250 (12.5%)                   | 2248 (12.4%)                   | 2000         |
| ×                                      | TA46          | 2410 (20.14%)                  | 2410 (20.14%)                  | 2314 (15.35%)                  | 2391 (19.19%)                  | 2006         |
| r m                                    | A47           | 2211 (17.05%)                  | 2211 (17.05%)                  | 2141 (13.34%)                  | 2211 (17.05%)                  | 1889         |
|                                        | TA48          | 2350 (21.32%)                  | 2350 (21.32%)                  | 2289 (18.17%)                  | 2327 (20.13%)                  | 1937         |
|                                        | A49           | 2415 (23.15%)                  | 2377 (21.21%)                  | 2270 (15.76%)                  | 2415 (23.15%)                  | 1961         |
|                                        | TA50          | 2392 (24.39%)                  | 2392 (24.39%)                  | 2279 (18.51%)                  | 2351 (22.26%)                  | 1923         |
| Т                                      | TA51          | 3295 (19.38%)                  | 3214 (16.45%)                  | 3181 (15.25%)                  | 3279 (18.8%)                   | 2760         |
|                                        | TA52          | 3082 (11.83%)                  | 3082 (11.83%)                  | 3029 (9.91%)                   | 3029 (9.91%)                   | 2756         |
|                                        | TA53          | 2944 (8.35%)                   | 2935 (8.02%)                   | 2921 (7.51%)                   | 2945 (8.39%)                   | 2717         |
| Т                                      | TA54          | 2924 (2.99%)                   | 2924 (2.99%)                   | 2914 (2.64%)                   | 2904 (2.29%)                   | 2839         |
| r B                                    | A55           | 3108 (16.01%)                  | 3108 (16.01%)                  | 3050 (13.85%)                  | 3184 (18.85%)                  | 2679         |
| X                                      | TA56          | 3201 (15.1%)                   | 3104 (11.61%)                  | 3012 (8.31%)                   | 3176 (14.2%)                   | 2781         |
| r v                                    | TA57          | 3315 (12.64%)                  | 3224 (9.55%)                   | 3180 (8.05%)                   | 3247 (10.33%)                  | 2943         |
|                                        | TA58          | 3143 (8.94%)                   | 3143 (8.94%)                   | 3103 (7.56%)                   | 3141 (8.87%)                   | 2885         |
|                                        | TA59          | 3100 (16.76%)                  | 3091 (16.42%)                  | 3009 (13.33%)                  | 3049 (14.84%)                  | 2655         |
|                                        | TA60          | 3004 (10.32%)                  | 2966 (8.92%)                   | 2909 (6.83%)                   | 2955 (8.52%)                   | 2723         |
| Т                                      | Γ <b>A</b> 61 | 3242 (13.04%)                  | 3179 (10.84%)                  | 3184 (11.02%)                  | 3240 (12.97%)                  | 2868         |
|                                        | TA62          | 3309 (15.34%)                  | 3292 (14.74%)                  | 3229 (12.55%)                  | 3286 (14.53%)                  | 2869         |
| T                                      | TA63          | 3069 (11.4%)                   | 3059 (11.03%)                  | 3004 (9.04%)                   | 3117 (13.14%)                  | 2755         |
| o 1                                    | TA64          | 3044 (12.66%)                  | 3010 (11.4%)                   | 2916 (7.92%)                   | 3020 (11.77%)                  | 2702         |
| T 20×20                                | TA65          | 3256 (19.49%)                  | 3141 (15.27%)                  | 3068 (12.59%)                  | 3236 (18.75%)                  | 2725         |
| r ĝ                                    | TA66          | 3249 (14.2%)                   | 3224 (13.32%)                  | 3144 (10.51%)                  | 3243 (13.99%)                  | 2845         |
| · T                                    | TA67          | 3194 (13.06%)                  | 3194 (13.06%)                  | 3120 (10.44%)                  | 3191 (12.96%)                  | 2825         |
| T                                      | TA68          | 3040 (9.2%)                    | 3030 (8.84%)                   | 2955 (6.14%)                   | 2992 (7.47%)                   | 2784         |
|                                        | TA69          | 3383 (10.16%)                  | 3320 (8.11%)                   | 3295 (7.29%)                   | 3344 (8.89%)                   | 3071         |
| Т                                      | TA70          | 3410 (13.86%)                  | 3410 (13.86%)                  | 3336 (11.39%)                  | 3365 (12.35%)                  | 2995         |
|                                        | TA71          | 5769 (5.58%)                   | 5694 (4.21%)                   | 5653 (3.46%)                   | 5709 (4.48%)                   | 5464         |
|                                        | FA72          | 5462 (5.42%)                   | 5366 (3.57%)                   | 5365 (3.55%)                   | 5455 (5.29%)                   | 5181         |
|                                        | FA73          | 6052 (8.69%)                   | 5982 (7.44%)                   | 5885 (5.69%)                   | 6040 (8.48%)                   | 5568         |
| 8 1                                    | TA74          | 5510 (3.2%)                    | 5472 (2.49%)                   | 5427 (1.65%)                   | 5352 (0.24%)                   | 5339         |
|                                        | TA75          | 5850 (8.49%)                   | 5833 (8.18%)                   | 5790 (7.38%)                   | 5837 (8.25%)                   | 5392         |
| ĭ ĭ                                    | TA76          | 5859 (9.68%)                   | 5858 (9.66%)                   | 5748 (7.6%)                    | 5935 (11.1%)                   | 5342         |
| 1                                      | TA77          | 5677 (4.43%)                   | 5657 (4.07%)                   | 5588 (2.8%)                    | 5663 (4.18%)                   | 5436         |
| T                                      | TA78          | 5699 (5.65%)                   | 5604 (3.89%)                   | 5570 (3.26%)                   | 5541 (2.73%)                   | 5394         |
|                                        |               | 5548 (3.55%)                   | 5484 (2.35%)                   | 5424 (1.23%)                   | 5488 (2.43%)                   | 5358         |
|                                        | TA79<br>TA80  | 5383 (3.86%)                   | 5383 (3.86%)                   | 5339 (3.01%)                   | e 100 (=11e /1)                | 518          |

Table 8: ICL on Taillard's instances.

| TALI 1475 (1982%) 1457 (1836%) 1458 (1844%) 1453 (1888%) 1477 (1998%) 1231   TAS 1393 (1437%) 1397 (147%) 1410 (1833%) 1467 (1044%) 1447 (1887%) 1218*   TAS 1390 (1356%) 1354 (1062%) 1410 (1317%) 1412 (2017%) 1374 (1694%) 1374 (1694%) 1475 (1898%) 1218*   TAS 1390 (1356%) 1354 (1062%) 1410 (1417%) 1433 (1708%) 1388 (1345%) 1228*   TAS 1390 (1356%) 1354 (1062%) 1410 (1417%) 1433 (1708%) 1388 (1345%) 1228*   TAS 1407 (1561%) 1388 (1405%) 1390 (122%) 1418 (1652%) 1380 (1345%) 1278*   TAS 1407 (1561%) 1388 (1405%) 1490 (1409%) 1418 (1652%) 1380 (1399%) 1274*   TAS 1407 (1561%) 1388 (1405%) 1490 (1409%) 1418 (1652%) 1383 (1346%) 1228*   TAS 1407 (1561%) 1388 (1405%) 1490 (1409%) 1418 (1652%) 1383 (1346%) 1228*   TAS 1400 (1437%) 1596 (1675%) 1596 (1687%) 1596 (1687%) 1596 (1675%) 1582 (1573%) 1604 (1979%) 1612 (1079%) 1377*   TAI 1562 (1613%) 1595 (1613%) 1596 (1675%) 1582 (1573%) 1604 (1979%) 1612 (1079%) 1377*   TAI 1595 (1135%) 1582 (1632%) 1582 (1637%) 1615 (1070%) 1666 (1099%) 1616 (1409%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1407 (1338%) 1 | _   | Instance | (15×15)       | (20×15)       | (20×20)       | (30×15)       | (30×20)       | UB    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|---------------|---------------|---------------|---------------|---------------|-------|
| TA2 1401 (12-62*) 1414 (13-67*) 1413 (16-07*) 1467 (124-47*) 1426 (14-63*) 1234* TA3 1309 (14-56*) 1338 (13-37*) 1351 (14-98*) 1437 (12-17*) 1374 (16-94*) 1215* TA3 1300 (13-56*) 1334 (10-25*) 1403 (14-17*) 1413 (16-07*) 1474 (12-17*) 1374 (16-94*) 117* TA5 1407 (15-18*) 1340 (11-65*) 1374 (11-67*) 1413 (16-07*) 1374 (16-94*) 1224* TA7 1425 (16-14*) 1374 (11-67*) 1374 (11-98*) 1433 (17-68*) 1388 (14-67*) 127* TA8 1407 (15-18*) 1478 (16-18*) 1374 (11-98*) 1418 (16-55*) 1383 (13-64*) 127* TA9 1472 (15-54*) 1478 (16-01*) 1491 (17-03**) 1488 (18-78*) 1383 (13-64*) 127* TA10 1493 (15-95*) 1596 (16-75*) 1426 (14-97*) 1488 (16-55*) 1383 (13-64*) 127* TA11 1602 (18-55*) 1596 (16-75*) 1596 (16-75*) 1596 (16-75*) 1574 (14-75*) 1488 (16-5*) 167 (12-35*) 167 (16-35*) 1596 (16-75*) 1596 (16-75*) 1574 (14-75*) 1610 (17-35*) 162 (16-38*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (14-37*) 1554 (1 |     | TA1      | 1475 (19.82%) | 1457 (18.36%) | 1458 (18.44%) | 1453 (18.03%) | 1477 (19.98%) | 1231* |
| TA3 1393 (14.37%) 1397 (14.7%) 1431 (16.01%) 1447 (12.04.4%) 1447 (18.8%) 1374 (16.94.4%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 (17.5%) 1757 ( |     | TA2      |               |               |               |               | 1426 (14.63%) | 1244* |
| TALL 1340 (14.04%) 1338 (13.87%) 1351 (14.98%) 1412 (20.17%) 1374 (10.94%) 1375 (12.24%) 1382 (13.14%) 1384 (13.24%) 1384 (13.14%) 1384 (13.14%) 1384 (13.14%) 1228 (13.14%) 1384 (13.14%) 1228 (13.14%) 1384 (13.14%) 1228 (13.14%) 1384 (13.14%) 1228 (13.14%) 1384 (13.14%) 1228 (13.14%) 1384 (13.14%) 1228 (13.14%) 1384 (13.14%) 1228 (13.14%) 1472 (13.54%) 1228 (13.14%) 1472 (13.54%) 1228 (13.14%) 1472 (13.54%) 1228 (13.14%) 1472 (13.54%) 1228 (13.14%) 1472 (13.54%) 1228 (13.14%) 1472 (13.54%) 1228 (13.14%) 1472 (13.14%) 1228 (13.14%) 1473 (13.55%) 1473 (13.14%) 1473 (13.15%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14%) 1474 (13.14 |     |          |               |               |               |               |               |       |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |          |               |               |               |               |               |       |
| TAZ 1425 (16.14%) 1330 (11.65%) 1309 (12.04%) 1408 (14.75%) 1479 (20.54%) 1227* TAJ 1472 (15.54%) 1478 (16.01%) 1491 (17.03%) 1448 (16.35%) 1383 (16.46%) 1221* TAJ 1593 (15.55%) 1478 (16.01%) 1491 (17.03%) 1448 (16.35%) 1478 (12.35%) 1478 (12.35%) 1478 (16.25%) 1478 (16.01%) 1491 (17.03%) 1448 (16.35%) 1478 (16.25%) 1221* TAJ 1 1602 (18.05%) 1576 (16.14%) 1604 (17.34%) 1407 (13.38%) 1407 (16.23%) 1612 (17.92%) 1367* TAJ 1 1612 (20.03%) 1599 (16.33%) 1594 (16.33%) 1594 (16.40%) 1619 (19.25%) 1612 (17.92%) 1367* TAJ 1 1612 (20.03%) 1599 (16.33%) 1594 (16.33%) 1594 (16.40%) 1619 (19.93%) 1612 (17.92%) 1367* TAJ 1 17.02 (17.55%) 1582 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) | 15  |          |               |               |               |               |               |       |
| TAZ 1425 (16.14%) 1330 (11.65%) 1309 (12.04%) 1408 (14.75%) 1479 (20.54%) 1227* TAJ 1472 (15.54%) 1478 (16.01%) 1491 (17.03%) 1448 (16.35%) 1383 (16.46%) 1221* TAJ 1593 (15.55%) 1478 (16.01%) 1491 (17.03%) 1448 (16.35%) 1478 (12.35%) 1478 (12.35%) 1478 (16.25%) 1478 (16.01%) 1491 (17.03%) 1448 (16.35%) 1478 (16.25%) 1221* TAJ 1 1602 (18.05%) 1576 (16.14%) 1604 (17.34%) 1407 (13.38%) 1407 (16.23%) 1612 (17.92%) 1367* TAJ 1 1612 (20.03%) 1599 (16.33%) 1594 (16.33%) 1594 (16.40%) 1619 (19.25%) 1612 (17.92%) 1367* TAJ 1 1612 (20.03%) 1599 (16.33%) 1594 (16.33%) 1594 (16.40%) 1619 (19.93%) 1612 (17.92%) 1367* TAJ 1 17.02 (17.55%) 1582 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) 1594 (16.32%) | ν̈́ |          |               |               |               |               |               |       |
| TAB 1407 (1561%) 1388 (1405%) 1369 (1249%) 1418 (16.52%) 1383 (13.64%) 1274* TA10 1439 (1505%) 1430 (1305%) 1420 (1491%) 1438 (16.88%) 1502 (17.9%) 1274* TA11 1602 (18.05%) 1576 (16.14%) 1605 (18.28%) 1674 (23.36%) 1676 (13.18%) 1575 (16.14%) 1605 (18.28%) 1674 (23.36%) 1674 (23.36%) 1575 (16.14%) 1596 (16.75%) 1582 (15.73%) 1674 (23.36%) 1674 (23.36%) 1575 (16.14%) 1596 (16.75%) 1582 (15.73%) 1694 (16.90%) 1612 (17.92%) 1513 (12.14%) 1575 (16.13%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34%) 1559 (16.34 | -   |          |               |               |               |               |               |       |
| TA10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |          |               | 1388 (14.05%) |               |               |               |       |
| TA11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     | TA9      | 1472 (15.54%) | 1478 (16.01%) | 1491 (17.03%) | 1488 (16.8%)  | 1502 (17.9%)  | 1274* |
| TA12 1604 (17.34%) 1596 (16.75%) 1582 (15.73%) 1604 (19.97%) 1612 (17.92%) 1367* TA14 1562 (16.13%) 1596 (16.33%) 1564 (16.04%) 1599 (15.35%) 1631 (14.14%) 1343* TA15 1599 (16.34%) 1554 (16.05%) 1594 (15.66%) 1604 (19.97%) 1616 (16.02.08%) 1345* TA16 1596 (17.35%) 1582 (16.32%) 1592 (17.06%) 1610 (18.38%) 1665 (22.43%) 1360* TA17 17.23 (17.83%) 1703 (16.02%) 1602 (10.06%) 1747 (23.14%) 1737 (19.24.23%) 1036 (19.05%) 1602 (10.06%) 1747 (23.14%) 1737 (23.56%) 1936* TA18 1709 (22.43%) 1646 (19.05%) 1692 (10.06%) 1747 (23.14%) 1737 (23.56%) 1936* TA18 1709 (22.43%) 1646 (19.05%) 1692 (10.06%) 1747 (23.14%) 1737 (23.56%) 1936* TA18 1709 (22.43%) 1646 (19.05%) 1692 (10.06%) 1747 (23.14%) 1737 (23.586%) 1936* TA20 1555 (15.66%) 1585 (15.58%) 1692 (10.06%) 1747 (23.14%) 1737 (23.586%) 1936* TA21 1896 (18.5%) 1802 (16.33%) 1802 (10.03%) 1802 (20.13%) 1946 (18.5%) 1682 (18.56%) 1802 (16.33%) 1802 (10.14%) 1902 (17.3%) 1946 (18.51%) 1642* TA22 1896 (18.5%) 1802 (16.33%) 1802 (16.33%) 1802 (10.33%) 1955* TA23 1833 (18.06%) 1871 (17.3%) 1866 (16.96%) 1943 (18.13%) 1943 (18.19%) 1644* TA29 1896 (16.68%) 1882 (16.68%) 1882 (16.96%) 1943 (18.13%) 1943 (18.19%) 1644* TA29 1896 (16.68%) 1886 (16.06%) 1885 (14.25%) 1894 (16.13%) 1994 (20.25%) 1822 (18.33%) 1955* TA30 1835 (16.98%) 1888 (16.66%) 1885 (14.25%) 1894 (16.35%) 1994 (20.25%) 1822 (18.33%) 1954 (20.25%) 1822 (18.25%) 1824 (16.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (18.25%) 1824 (1 |     | TA10     |               | 1403 (13.05%) | 1426 (14.91%) | 1407 (13.38%) | 1467 (18.21%) | 1241* |
| TA13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     | TA11     | 1602 (18.05%) | 1576 (16.14%) | 1605 (18.28%) | 1674 (23.36%) | 1674 (23.36%) | 1357* |
| \[ \begin{array}{c} \text{TA15}  \text{S52}  \text{(16.13\%)}  \text{155}  \text{(16.13\%)}  \text{155}  \text{(16.13\%)}  \text{155}  \text{(16.13\%)}  \text{155}  \text{(16.13\%)}  \text{(15.13\%)}  \text{(16.13\%)}  \text{(15.13\%)}  \text{(16.13\%)}  (16.13\                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     | TA12     | 1604 (17.34%) | 1596 (16.75%) | 1582 (15.73%) | 1640 (19.97%) | 1612 (17.92%) | 1367* |
| TA15   1599 (16.43%)   1596 (17.53%)   1592 (16.22%)   1592 (17.08%)   1604 (19.79%)   1602 (19.64%)   1339*   1717   1723 (17.85%)   1705 (16.62%)   1592 (17.08%)   1604 (19.79%)   1602 (19.64%)   1349*   1462*   1717   1718 (19.79%)   1602 (19.64%)   1349*   1602 (19.66%)   1747 (25.14%)   1757 (26.34%)   1360*   1747 (25.14%)   1757 (26.34%)   1360*   1747 (25.14%)   1757 (26.34%)   1360*   1747 (25.14%)   1757 (26.58%)   1759 (20.31%)   1754 (19.97%)   1462*   1741 (15.92%)   1544 (15.92%)   1546 (16.07%)   1607 (20.65%)   1610 (20.87%)   1332*   1742 (15.57%)   1977 (16.14%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)   1996 (17.57%)     |     | TA13     | 1612 (20.03%) | 1569 (16.83%) | 1564 (16.46%) | 1659 (23.53%) | 1631 (21.44%) | 1343* |
| TA17   1723   173.57%   1602   1603   1603   175.08   175.99   103.18   175.45   195.77%   146.2°   174.19   174.18   174.19   174.18   174.19   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   17 | 0   | TA14     | 1562 (16.13%) | 1535 (14.13%) | 1545 (14.87%) | 1615 (20.07%) | 1626 (20.89%) | 1345* |
| TA17   1723   173.57%   1602   1603   1603   175.08   175.99   103.18   175.45   195.77%   146.2°   174.19   174.18   174.19   174.18   174.19   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   17 | ×   | TA15     | 1559 (16.43%) | 1554 (16.06%) | 1549 (15.68%) | 1604 (19.79%) | 1602 (19.64%) | 1339* |
| TA17   1723   173.57%   1602   1603   1603   175.08   175.99   103.18   175.45   195.77%   146.2°   174.19   174.18   174.19   174.18   174.19   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   174.18   17 | 20: | TA16     | 1596 (17.35%) |               | 1592 (17.06%) | 1610 (18.38%) |               | 1360* |
| TA19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     | TA17     | 1723 (17.85%) | 1705 (16.62%) | 1682 (15.05%) | 1759 (20.31%) | 1754 (19.97%) | 1462* |
| TA20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |          |               |               |               |               |               |       |
| TA21 1947 (18.57%) 1907 (16.14%) 1967 (19.79%) 1926 (17.3%) 1946 (18.51%) 1622* TA22 1896 (18.5%) 1862 (16.3%%) 1865 (16.56%) 1879 (17.44%) 1863 (16.14%) 1600* TA24 1928 (17.27%) 1887 (14.78%) 1898 (15.45%) 1958 (19.1%) 1943 (18.19%) 1644* TA25 1883 (18.06%) 1871 (17.3%) 1866 (16.99%) 1943 (12.8%) 1948 (21.3%) 1947 (17.27%) 1871 (18.27%) 1866 (16.99%) 1943 (12.8%) 1948 (21.3%) 1947 (17.27%) 1871 (18.27%) 1872 (18.27%) 1873 (18.27%) 1873 (18.27%) 1873 (18.27%) 1873 (18.27%) 1873 (18.27%) 1873 (18.27%) 1873 (18.27%) 1983 (18.10%) 1998 (17.35%) 1967 (19.72%) 1953 (18.87%) 1642* TA26 1880 (16.45%) 1831 (16.05%) 1841 (14.85%) 1864 (17.55%) 1896 (18.28%) 1942 (21.37%) 1953 (18.37%) 1873 (18.27%) 1873 (18.27%) 1983 (18.10%) 1998 (17.22%) 1873 (18.27%) 1899 (16.58%) 1886 (16.05%) 1856 (16.22%) 1893 (16.05%) 1856 (16.22%) 1893 (16.05%) 1856 (16.22%) 1893 (16.05%) 1856 (16.22%) 1893 (16.05%) 1856 (16.22%) 1893 (16.05%) 1856 (16.22%) 1893 (16.05%) 1856 (16.22%) 1893 (16.05%) 1856 (16.22%) 1893 (16.05%) 1856 (16.22%) 1893 (16.05%) 1856 (16.22%) 1893 (16.05%) 1856 (16.22%) 1893 (16.05%) 1856 (16.22%) 1893 (16.05%) 1856 (16.22%) 1893 (16.05%) 1856 (16.22%) 1893 (16.05%) 1856 (16.22%) 1893 (16.05%) 1856 (16.22%) 1893 (16.05%) 1856 (16.22%) 1893 (16.05%) 1856 (16.22%) 1893 (16.05%) 1856 (16.22%) 1893 (16.05%) 1856 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1893 (16.05%) 1894 (16.22%) 1894 (16.22%) 189 |     |          |               |               |               |               |               |       |
| TA22 1896 (18.5%) 1862 (16.38%) 1865 (16.56%) 1879 (17.44%) 1860 (16.44%) 1600.  TA24 1928 (17.27%) 1887 (14.78%) 1898 (15.45%) 1958 (19.15%) 1943 (18.19%) 1644*  TA25 1883 (18.06%) 1871 (17.3%) 1866 (16.99%) 1943 (21.82%) 1943 (18.19%) 1695*  TA26 1885 (14.73%) 1874 (14.06%) 1928 (17.35%) 1967 (19.72%) 1953 (18.87%) 1635*  TA27 1987 (18.27%) 1983 (18.06%) 1881 (17.35%) 1866 (17.86%) 2023 (20.42%) 1953 (18.87%) 1630*  TA28 1850 (15.41%) 1821 (13.65%) 1841 (14.85%) 1841 (15.35%) 1896 (18.28%) 1602*  TA29 1896 (16.66%) 1856 (16.00%) 1856 (14.22%) 1891 (16.37%) 1954 (20.25%) 1625*  TA33 1853 (16.98%) 1848 (16.67%) 1852 (16.22%) 1922 (21.34%) 1877 (18.5%) 1584*  TA33 2260 (26.19%) 2173 (21.33%) 2252 (25.74%) 2253 (31.21%) 2310 (28.98%) 1794*  TA33 2260 (26.19%) 2173 (21.33%) 2252 (25.74%) 2350 (31.21%) 2310 (28.98%) 1794*  TA33 2260 (16.1%) 2175 (18.58%) 2253 (12.56%) 2253 (11.66%) 2320 (11.65%) 2007*  TA33 2200 (10.06%) 2179 (8.57%) 2253 (12.26%) 2253 (11.36%) 2320 (15.6%) 2007*  TA33 2000 (12.10%) 2144 (19.44%) 2163 (20.61%) 2251 (27.15%) 2239 (24.39%) 1774*  TA33 200 (2(1.1%) 2018 (20.62%) 2042 (20.6%) 2053 (21.75%) 2230 (24.23%) 1774*  TA39 2190 (20.46%) 1257 (18.85%) 2192 (20.6%) 20.56 (22.98%) 2005*  TA36 200 (21.00%) 1244 (19.44%) 2163 (20.65%) 2494 (22.23%) 2230 (24.23%) 1795*  TA44 2295 (18.44%) 2232 (19.82%) 2337 (20.65%) 2494 (22.23%) 2230 (24.23%) 1795*  TA44 2284 (18.24%) 2232 (19.82%) 2337 (20.65%) 2494 (22.24%) 2230 (24.23%) 1966*  TA47 2284 (19.53%) 2366 (17.55%) 2365 (23.98%) 2397 (23.57%) 2378 (22.17%) 2399 (28.85%) 1967*  TA48 2889 (23.34%) 2397 (23.75%) 2430 (12.28%) 2491 (24.24%) 2543 (26.83%) 2005*  TA55 312 (10.00%) 337 (10.15%) 330 (16.29%) 3313 (20.21%) 3337 (21.98%) 2397 (23.75%) 2305 (22.28%) 3341 (18.44%) 3424 (19.98%) 335 (19.98%) 337 (19.65%) 336 (19.98%) 337 (19.65%) 337 (19.65%) 337 (19.65%) 337 (19.65%) 337 (19.65%) 337 (19.65%) 337 (19.65%) 337 (19.65%) 337 (19.65%) 337 (19.65%) 337 (19.65%) 337 (19.65%) 337 (19.65%) 337 (19.65%) 337 (19.65%) 337 (19.65%) 337 (19.65%) 337 (19.65%)  |     | TA20     | 1555 (15.36%) | 1558 (15.58%) | 1622 (20.33%) | 1624 (20.47%) | 1640 (21.66%) | 1348* |
| TA23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |          |               |               |               |               |               |       |
| TA24 1928 (17.27%) 1887 (14.78%) 1898 (15.45%) 1958 (19.1%) 1943 (18.19%) 1694* TA26 1885 (14.73%) 1874 (14.06%) 1928 (17.35%) 1967 (19.72%) 1953 (18.87%) 1635* TA27 1987 (18.27%) 1983 (18.06%) 1980 (17.86%) 2023 (20.42%) 1953 (18.87%) 1630* TA28 1850 (15.41%) 1821 (13.65%) 1841 (14.85%) 1884 (17.53%) 1896 (18.28%) 1602* TA29 1896 (16.66%) 1856 (16.00%) 1856 (14.22%) 1891 (16.37%) 1994 (20.25%) 1625* TA30 1853 (16.93%) 1848 (16.67%) 1852 (16.22%) 1992 (21.34%) 1877 (18.5%) 1584*  TA31 2148 (21.77%) 2170 (22.14%) 2176 (22.85%) 2149 (21.83%) 2302 (30.5%) 1764* TA33 2260 (26.19%) 2173 (21.33%) 2252 (25.74%) 2350 (31.21%) 2310 (28.98%) 1791* TA33 2260 (20.40%) 2177 (18.58%) 2252 (25.74%) 2350 (31.21%) 2310 (28.98%) 1791* TA33 2209 (10.06%) 2179 (8.57%) 2233 (12.26%) 2235 (11.36%) 2320 (15.6%) 2007* TA35 2209 (10.06%) 2179 (8.57%) 2253 (12.26%) 2253 (11.36%) 2320 (15.6%) 2007* TA36 2190 (20.4%) 2157 (18.58%) 2192 (20.46%) 2166 (18.49%) 2127 (24.9%) 1819* TA37 2157 (21.8%) 2145 (21.12%) 2136 (20.61%) 2251 (27.1%) 2239 (24.37%) 1774* TA39 2190 (22.01%) 2144 (19.44%) 2163 (20.6%) 2036 (21.7%) 2239 (24.37%) 1774* TA41 2499 (24.64%) 2469 (23.14%) 2163 (20.5%) 2194 (22.23%) 2300 (24.23%) 1795* TA42 2295 (18.48%) 2321 (19.82%) 2337 (20.65%) 2363 (21.99%) 2399 (23.85%) 1937* TA44 2334 (17.94%) 2326 (17.55%) 2337 (20.65%) 2491 (24.24%) 2543 (26.83%) 2005* TA44 2334 (17.94%) 2326 (17.55%) 2337 (20.65%) 2491 (24.24%) 2543 (26.83%) 2005* TA45 2432 (1.16%) 2355 (22.26%) 2337 (20.65%) 2491 (24.24%) 2540 (26.63%) 1937* TA48 2389 (23.34%) 2397 (23.75%) 2430 (12.18%) 2317 (25.97%) 2379 (24.75%) 2337 (25.97%) 2479 (27.98%) 2471 (27.57%) 1937* TA53 337 (13.25%) 3381 (15.55%) 3356 (12.95%) 3313 (10.19%) 3313 (10.19%) 3337 (12.55%) 2360 (26.63%) 1937* TA45 2381 (15.35%) 3356 (13.65%) 3357 (13.65%) 3357 (13.65%) 3357 (13.65%) 3357 (13.65%) 3357 (13.65%) 3357 (13.65%) 3357 (13.65%) 3357 (13.65%) 3357 (13.65%) 3367 (13.95%) 3377 (13.65%) 3377 (13.65%) 3377 (13.65%) 3377 (13.65%) 3377 (13.65%) 3377 (13.65%) 3377 (13.65%) 3377 (13.65%) 3377  |     |          |               |               |               |               |               |       |
| Name         TA25         1883 (18.06%)         1871 (17.3%)         1866 (16.9%)         1943 (21.2%)         1993 (12.13%)         1595           AZ         1887 (18.7%)         1874 (14.00%)         1928 (17.3%)         2023 (20.42%)         2044 (21.67%)         1643°           TA27         1987 (18.27%)         1983 (18.04%)         1980 (17.86%)         2023 (20.42%)         2044 (21.67%)         1608°           TA29         1886 (16.68%)         1885 (16.06%)         1856 (14.22%)         1891 (16.37%)         1994 (20.25%)         1625°           TA31         2148 (21.77%)         2101 (19.1%)         2167 (22.85%)         2149 (21.83%)         2302 (30.5%)         1764°           TA32         2164 (21.3%)         2179 (22.14%)         2172 (21.75%)         2216 (24.22%)         2339 (31.11%)         1784°           TA33         2206 (16.9%)         2173 (33.3%)         2252 (25.74%)         2230 (31.2%)         2320 (30.5%)         1791°           TA34         2169 (18.65%)         2155 (17.89%)         2202 (20.46%)         216 (31.49%)         2179 (19.2%)         1828°           TA36         2290 (20.46%)         2157 (18.85%)         2192 (20.15%)         2248 (23.58%)         2272 (21.95%)         1819°         1819°         1828°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |          |               |               |               |               |               |       |
| TA27 1987 (18.27%) 1983 (18.04%) 1980 (17.86%) 2023 (20.42%) 2014 (21.67%) 16003* TA29 1896 (16.66%) 1886 (16.06%) 1856 (14.22%) 1891 (16.37%) 1995 (20.25%) 1625* TA30 1853 (16.98%) 1848 (16.65%) 1852 (16.92%) 1891 (16.37%) 1954 (20.25%) 1625* TA31 2148 (21.77%) 2101 (19.1%) 2167 (22.85%) 2149 (21.83%) 2302 (30.5%) 1764* TA32 2164 (21.3%) 2179 (21.14%) 2172 (21.75%) 2216 (24.22%) 2339 (31.11%) 1784* TA33 2260 (26.16)% 2173 (21.33%) 2252 (25.74%) 2350 (31.21%) 2310 (28.93%) 1791* TA34 2160 (18.65%) 2135 (17.89%) 2202 (20.46%) 2166 (18.49%) 2179 (19.2%) 1828* TA35 2209 (10.06%) 2179 (8.87%) 2235 (12.26%) 2235 (11.66%) 2320 (15.6%) 2007* TA36 2190 (20.4%) 2157 (18.58%) 2192 (20.51%) 2248 (23.88%) 2320 (16.6%) 2007* TA37 2157 (21.15%) 2145 (21.12%) 2136 (26.6.16%) 2251 (27.1%) 2259 (26.34%) 1771* TA38 2006 (21.11%) 2018 (20.6.2%) 2042 (22.06%) 2036 (21.7%) 2239 (26.34%) 1771* TA38 2190 (20.11%) 2146 (19.44%) 2163 (20.5%) 2019 (22.21.75%) 2239 (23.85%) 1795* TA40 2017 (20.85%) 1986 (18.99%) 2055 (23.13%) 2032 (21.75%) 2239 (23.85%) 1987* TA41 2499 (24.64%) 2469 (23.14%) 2492 (24.29%) 2491 (24.24%) 2334 (26.68.3%) 1937* TA43 2260 (22.43%) 2332 (10.68%) 2337 (20.65%) 2366 (21.99%) 2399 (23.85%) 1937* TA44 2394 (17.34%) 2325 (19.85%) 2337 (20.65%) 2366 (21.99%) 2399 (23.85%) 1937* TA44 2394 (17.34%) 2325 (19.25%) 2337 (20.65%) 2491 (24.24%) 2399 (23.85%) 1937* TA45 2325 (17.46%) 2385 (19.25%) 2337 (20.83%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24 | 20  |          |               |               |               |               |               |       |
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| TA27 1987 (18.27%) 1983 (18.04%) 1980 (17.86%) 2023 (20.42%) 2014 (21.67%) 16003* TA29 1896 (16.66%) 1886 (16.06%) 1856 (14.22%) 1891 (16.37%) 1995 (20.25%) 1625* TA30 1853 (16.98%) 1848 (16.65%) 1852 (16.92%) 1891 (16.37%) 1954 (20.25%) 1625* TA31 2148 (21.77%) 2101 (19.1%) 2167 (22.85%) 2149 (21.83%) 2302 (30.5%) 1764* TA32 2164 (21.3%) 2179 (21.14%) 2172 (21.75%) 2216 (24.22%) 2339 (31.11%) 1784* TA33 2260 (26.16)% 2173 (21.33%) 2252 (25.74%) 2350 (31.21%) 2310 (28.93%) 1791* TA34 2160 (18.65%) 2135 (17.89%) 2202 (20.46%) 2166 (18.49%) 2179 (19.2%) 1828* TA35 2209 (10.06%) 2179 (8.87%) 2235 (12.26%) 2235 (11.66%) 2320 (15.6%) 2007* TA36 2190 (20.4%) 2157 (18.58%) 2192 (20.51%) 2248 (23.88%) 2320 (16.6%) 2007* TA37 2157 (21.15%) 2145 (21.12%) 2136 (26.6.16%) 2251 (27.1%) 2259 (26.34%) 1771* TA38 2006 (21.11%) 2018 (20.6.2%) 2042 (22.06%) 2036 (21.7%) 2239 (26.34%) 1771* TA38 2190 (20.11%) 2146 (19.44%) 2163 (20.5%) 2019 (22.21.75%) 2239 (23.85%) 1795* TA40 2017 (20.85%) 1986 (18.99%) 2055 (23.13%) 2032 (21.75%) 2239 (23.85%) 1987* TA41 2499 (24.64%) 2469 (23.14%) 2492 (24.29%) 2491 (24.24%) 2334 (26.68.3%) 1937* TA43 2260 (22.43%) 2332 (10.68%) 2337 (20.65%) 2366 (21.99%) 2399 (23.85%) 1937* TA44 2394 (17.34%) 2325 (19.85%) 2337 (20.65%) 2366 (21.99%) 2399 (23.85%) 1937* TA44 2394 (17.34%) 2325 (19.25%) 2337 (20.65%) 2491 (24.24%) 2399 (23.85%) 1937* TA45 2325 (17.46%) 2385 (19.25%) 2337 (20.83%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24.24%) 2491 (24 | 20  |          |               |               |               |               |               |       |
| TA29 1896 (16.68%) 1886 (16.00%) 1856 (14.22%) 1891 (16.37%) 1954 (20.25%) 1625** TA31 2148 (21.77%) 2101 (19.1%) 1267 (22.85%) 2149 (21.83%) 230 (30.5%) 1764** TA32 2164 (21.37%) 2179 (22.14%) 2177 (21.75%) 2216 (24.22%) 2339 (31.11%) 1784** TA33 2260 (2.619%) 2173 (21.33%) 2252 (25.74%) 2350 (31.21%) 2310 (28.95%) 1791** TA34 2169 (18.65%) 2155 (17.89%) 2202 (20.46%) 2166 (18.49%) 2179 (19.2%) 1828** TA35 2209 (10.00%) 2179 (8.85%) 2202 (20.46%) 2166 (18.49%) 2179 (19.2%) 1828** TA36 2190 (20.4%) 2157 (18.58%) 2192 (20.51%) 2248 (23.85%) 2227 (24.9%) 1819** TA37 2157 (21.8%) 2145 (21.12%) 2136 (20.5%) 2248 (23.85%) 2227 (24.9%) 1819** TA38 2026 (21.1%) 2018 (20.65%) 2042 (22.06%) 2036 (21.7%) 2039 (23.45%) 1771** TA38 2026 (21.1%) 2018 (20.65%) 2045 (22.15%) 2248 (23.28%) 2272 (24.9%) 1879** TA39 2190 (22.01%) 2144 (19.44%) 2163 (20.5%) 2194 (22.23%) 2230 (24.23%) 1779** TA39 2190 (22.01%) 2148 (19.84%) 2255 (23.13%) 2032 (21.75%) 2049 (22.77%) 1669**  TA41 2399 (24.64%) 2469 (23.14%) 2265 (23.13%) 2035 (21.75%) 2049 (22.77%) 1669**  TA43 2260 (22.48%) 2232 (20.91%) 2233 (25.84%) 2312 (25.24%) 2339 (23.85%) 1986 (28.97%) 2470 (23.55%) 2039 (23.85%) 1986 (23.85%) 2470 (23.55%) 2490 (22.27%) 2390 (23.85%) 1986 (23.85%) 1986 (23.85%) 2490 (23.14%) 2334 (17.94%) 2326 (17.53%) 2420 (22.28%) 2445 (23.55%) 2399 (26.85%) 1886** TA44 2334 (17.94%) 2326 (17.53%) 2420 (22.28%) 2445 (23.55%) 2399 (26.95%) 1887* TA45 2432 (21.6%) 2385 (21.9%) 2439 (24.24%) 2517 (25.47%) 2559 (28.07%) 2000** TA46 2501 (24.68%) 2397 (23.75%) 2432 (21.24%) 2517 (25.47%) 2599 (26.95%) 1888* TA49 2413 (23.05%) 3385 (13.54%) 3484 (24.93%) 3138 (15.55%) 337 (10.85%) 2398 (26.95%) 1888* TA50 2375 (23.5%) 3381 (10.85%) 3085 (13.54%) 3085 (13.54%) 3138 (10.95%) 3337 (10.85%) 2490 (23.57%) 3347 (10.75%) 1993** TA55 3127 (20.08%) 3384 (12.45%) 3384 (15.55%) 3313 (10.29%) 3347 (16.09%) 3347 (16.09%) 3347 (16.10%) 3290 (18.35%) 3161 (11.14%) 3455 (22.75%) 3388 (19.95%) 3349 (13.69%) 3366 (12.95%) 3199 (14.65%) 3390 (18.36%) 3390 (18.36%) 3490 (13.38%)  |     |          |               |               |               |               |               |       |
| TA30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |          |               |               |               |               |               |       |
| TA31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |          |               |               |               |               |               |       |
| TA32 2164 (21.3%) 2179 (22.14%) 2172 (21.75%) 2216 (24.22%) 2339 (31.11%) 1784+ TA34 2169 (18.65%) 2155 (17.89%) 2252 (25.74%) 2216 (24.22%) 2350 (31.21%) 2310 (28.98%) 1791- TA35 2209 (10.06%) 2179 (8.57%) 2225 (25.74%) 2216 (18.49%) 2179 (19.2%) 1828+ TA36 2190 (20.44%) 2157 (18.58%) 2192 (20.51%) 2248 (23.55%) 2272 (24.9%) 1819- TA37 2157 (21.8%) 2145 (21.12%) 2136 (20.61%) 2251 (27.1%) 2239 (26.43%) 1771- TA38 2190 (22.01%) 2148 (20.62%) 2024 (22.05%) 236 (21.77) 2056 (22.89%) 1673- TA39 2190 (22.01%) 2144 (19.44%) 2163 (20.5%) 2194 (22.23%) 2230 (24.23%) 1795- TA39 2190 (22.01%) 2144 (19.44%) 2163 (20.5%) 2194 (22.23%) 2230 (22.28%) 1673- TA39 2190 (22.01%) 2144 (19.44%) 2055 (23.13%) 2032 (21.75%) 2049 (22.27%) 1669- TA41 2499 (24.64%) 2469 (23.14%) 2492 (24.29%) 2491 (24.24%) 2543 (26.83%) 2005- TA42 2295 (18.48%) 2321 (19.82%) 2337 (20.65%) 2363 (21.99%) 2399 (23.85%) 1937- TA43 2260 (22.45%) 2322 (20.91%) 2323 (25.84%) 2312 (25.25%) 2390 (23.85%) 1937- TA44 2334 (17.94%) 2326 (17.53%) 2420 (22.28%) 2445 (23.55%) 2506 (26.63%) 1936- TA44 2334 (17.94%) 2326 (19.75%) 2420 (22.28%) 2445 (23.55%) 2506 (26.63%) 1939- TA44 2324 (12.65%) 2385 (19.55%) 2381 (19.05%) 2491 (24.55%) 2470 (23.5%) 2006- TA44 2238 (19.55%) 2375 (21.65%) 2497 (24.24%) 2325 (26.85%) 1909- TA44 2324 (19.55%) 2375 (23.55%) 2255 (21.95%) 2419 (24.55%) 2470 (23.85%) 2006- TA44 2258 (19.55%) 2375 (23.55%) 2255 (24.65%) 2257 (19.48%) 2317 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 2355 (23.55%) 235 |     |          |               |               |               |               |               |       |
| TA33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |          |               |               |               |               |               |       |
| TA34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |          |               |               |               |               |               |       |
| TA35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |          |               |               |               |               |               |       |
| TA37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 15  |          |               |               |               |               |               |       |
| TA37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ×   |          |               |               |               |               |               |       |
| TA38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Ç,  |          |               |               |               |               |               |       |
| TA49 2190 (22.01%) 2144 (19.44%) 2163 (20.5%) 2194 (22.23%) 2230 (24.23%) 1795*  TA40 2017 (20.85%) 1986 (18.99%) 2055 (23.13%) 2032 (21.75%) 2049 (22.77%) 1669*  TA41 2499 (24.64%) 2469 (23.14%) 2492 (24.29%) 2491 (24.24%) 2543 (26.83%) 2005*  TA42 2295 (18.48%) 2321 (19.82%) 2337 (20.65%) 2363 (21.99%) 2399 (23.85%) 1937*  TA43 2260 (22.43%) 2232 (20.91%) 2232 (22.88) 2445 (23.55%) 2303 (26.23%) 1846*  TA44 2334 (17.94%) 2326 (17.53%) 2420 (22.28%) 2445 (23.55%) 2306 (26.63%) 1979*  TA45 2432 (21.6%) 2385 (19.25%) 2381 (19.05%) 2491 (24.55%) 2470 (23.5%) 2000*  TA46 2501 (24.68%) 2389 (23.97%) 2432 (21.24%) 2517 (25.47%) 2569 (28.07%) 2006*  TA47 2258 (19.53%) 2262 (19.75%) 2257 (19.48%) 2349 (24.35%) 2398 (26.95%) 1889*  TA49 2413 (23.05%) 2376 (21.16%) 2455 (25.19%) 2419 (23.36%) 2471 (27.57%) 1937*  TA49 2413 (23.05%) 2376 (21.16%) 2455 (25.19%) 2419 (23.36%) 2428 (23.81%) 1961*  TA50 2375 (23.5%) 2355 (22.46%) 2409 (25.27%) 2425 (26.11%) 2434 (26.57%) 1923*  TA51 3409 (23.51%) 3418 (23.84%) 3448 (24.93%) 3518 (7.46%) 3394 (22.97%) 2766*  TA52 3325 (17.74%) 3184 (15.53%) 3203 (16.22%) 3313 (20.21%) 3337 (21.08%) 2756*  TA53 3078 (13.29%) 3085 (13.54%) 3083 (13.47%) 3138 (15.5%) 3122 (14.91%) 2717*  TA54 3131 (10.29%) 3070 (8.14%) 3131 (10.29%) 3218 (13.35%) 3163 (11.14%) 2839*  TA55 3217 (20.08%) 3192 (19.15%) 3172 (18.4%) 3221 (20.23%) 3347 (12.12%) 2756*  TA57 3332 (13.22%) 3331 (13.18%) 3307 (15.32%) 3190 (14.71%) 3290 (18.38%) 2781*  TA58 3324 (15.22%) 3318 (15.01%) 3300 (14.38%) 3347 (16.01%) 3334 (15.69%) 2943*  TA58 3324 (15.22%) 3318 (15.01%) 3306 (14.98%) 3347 (16.01%) 3347 (16.19%) 3276 (21.68%) 3496 (21.85%) 2943*  TA58 3324 (15.22%) 3318 (15.01%) 3306 (14.98%) 3354 (16.99%) 3347 (16.19%) 3271 (17.5%) 322 (17.5%) 327 (17.8%) 329 (18.85%) 396 (18.85%) 295*  TA60 3067 (12.63%) 3068 (13.99%) 3366 (16.97%) 3383 (13.98%) 3351 (16.18%) 3496 (13.85%) 295*  TA66 3301 (11.14%) 3345 (21.57%) 329 (15.64%) 3329 (17.5%) 3124 (14.73%) 398 (13.77%) 2723*  TA66 3301 (11.14%) 3345 (21.57%) 329 (18.89%) 3556 (15. |     |          |               |               |               |               |               |       |
| TA40 2017 (20.85%) 1986 (18.99%) 2055 (23.13%) 2032 (21.75%) 2049 (22.77%) 1669*  TA41 2499 (24.64%) 2469 (23.14%) 2492 (24.29%) 2491 (24.24%) 2543 (26.83%) 2005* TA42 2295 (18.48%) 2321 (19.82%) 2337 (20.65%) 2363 (21.99%) 2399 (23.85%) 1937* TA43 2260 (22.43%) 2232 (20.91%) 2323 (25.84%) 2312 (25.24%) 2332 (26.33%) 1846* TA44 2334 (17.94%) 2326 (17.53%) 2400 (22.28%) 2445 (23.55%) 2506 (26.63%) 1979* TA45 2430 (21.6%) 2385 (19.55%) 2381 (19.90%) 291 (24.55%) 2506 (26.63%) 1979* TA46 2501 (24.68%) 2439 (21.59%) 2431 (21.24%) 2517 (25.47%) 2569 (28.07%) 2000* TA47 2258 (19.53%) 2262 (19.75%) 2257 (19.48%) 2349 (24.35%) 2398 (26.95%) 1889* TA48 2389 (23.34%) 2297 (23.75%) 2375 (21.14%) 2517 (25.47%) 2569 (28.07%) 2005* TA49 2413 (23.05%) 2376 (21.16%) 2455 (25.19%) 2419 (23.36%) 2428 (23.81%) 1961* TA50 2375 (23.5%) 2355 (22.46%) 2409 (25.27%) 2425 (26.11%) 2434 (26.57%) 1923*  TA51 3409 (23.51%) 3418 (23.84%) 3448 (24.93%) 3518 (27.46%) 3337 (21.08%) 2756* TA53 3078 (13.29%) 3085 (13.54%) 3083 (13.47%) 3138 (15.55%) 3122 (14.91%) 2717* TA54 3131 (10.29%) 3070 (8.14%) 3131 (10.29%) 3218 (13.35%) 3163 (11.41%) 2839* TA55 3217 (20.08%) 3192 (19.15%) 3172 (18.4%) 3221 (20.23%) 3247 (12.2%) 2679* TA55 312 (21.23%) 3094 (11.25%) 3300 (14.28%) 3354 (13.07%) 3437 (16.79%) 2943* TA58 3324 (15.22%) 3318 (15.01%) 3300 (14.38%) 3354 (13.97%) 3437 (16.79%) 2943* TA58 3324 (15.22%) 3318 (15.01%) 3300 (14.88%) 3354 (13.97%) 3437 (16.79%) 2943* TA59 3144 (18.42%) 3122 (17.59%) 300 (14.71%) 320 (18.3%) 2755* TA60 3067 (12.63%) 3076 (12.96%) 3153 (15.29%) 310 (14.71%) 3394 (12.2%) 2659* TA63 3310 (17.38%) 3366 (17.96%) 3132 (19.14.73%) 3098 (13.77%) 273*  TA61 3357 (17.05%) 3348 (15.99%) 3366 (17.96%) 3347 (16.01%) 3344 (15.69%) 2865* TA63 3310 (11.39%) 3438 (15.99%) 3366 (17.96%) 3322 (17.06%) 3324 (17.19%) 2755* TA66 3310 (12.14%) 3359 (10.96%) 3153 (15.59%) 3194 (19.79%) 3194 (19.96%) 3153 (15.59%) 3194 (19.14.79%) 3098 (13.77%) 2723*  TA61 3357 (17.38%) 360 (16.96%) 3153 (15.59%) 3144 (14.01%) 27024* TA63 3310 (17.33%) 3500  |     |          |               |               |               |               |               |       |
| TA42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |          |               |               |               |               |               |       |
| TA43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     | TA41     | 2499 (24.64%) | 2469 (23.14%) | 2492 (24.29%) | 2491 (24.24%) | 2543 (26.83%) | 2005* |
| TA44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     | TA42     | 2295 (18.48%) | 2321 (19.82%) | 2337 (20.65%) | 2363 (21.99%) | 2399 (23.85%) | 1937* |
| CONTRING         TA45         2432 (21.6%)         2385 (19.25%)         2381 (19.6%)         2491 (24.55%)         2470 (23.5%)         2000*           TA46         2501 (24.68%)         2439 (21.59%)         2432 (21.24%)         2517 (25.47%)         2569 (28.07%)         2006*           TA47         2258 (19.53%)         2262 (19.75%)         2257 (19.48%)         2349 (24.35%)         2398 (26.95%)         1889*           TA49         2413 (23.05%)         2376 (21.16%)         2455 (25.19%)         2419 (23.36%)         2471 (27.57%)         1937*           TA50         2375 (23.5%)         2355 (22.46%)         2409 (25.27%)         2425 (26.11%)         2434 (26.57%)         1923*           TA51         3409 (23.51%)         3418 (23.84%)         3448 (24.93%)         3518 (27.46%)         3394 (22.97%)         2760*           TA53         3078 (13.29%)         3085 (13.54%)         3083 (16.27%)         3313 (20.21%)         3312 (14.91%)         2717*           TA53         3078 (13.29%)         3085 (13.54%)         3083 (13.47%)         3138 (15.5%)         3122 (14.91%)         2717*           TA53         317 (20.08%)         319 (19.15%)         3172 (18.4%)         3218 (13.35%)         3163 (11.41%)         2839*           TA55         3217 (20.08%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     | TA43     | 2260 (22.43%) | 2232 (20.91%) | 2323 (25.84%) | 2312 (25.24%) | 2332 (26.33%) | 1846* |
| TA47 2258 (19.53%) 2262 (19.75%) 2257 (19.48%) 2349 (24.35%) 2398 (26.95%) 1889* TA48 2389 (23.34%) 2397 (23.75%) 2378 (22.77%) 2479 (27.98%) 2471 (27.57%) 1937* TA49 2413 (23.05%) 2376 (21.16%) 2455 (25.19%) 2419 (23.36%) 2428 (23.81%) 1961* TA50 2375 (23.5%) 2355 (22.46%) 2409 (25.27%) 2425 (26.11%) 2434 (26.57%) 1923*  TA51 3409 (23.51%) 3418 (23.84%) 3448 (24.93%) 3518 (27.46%) 3394 (22.97%) 2760* TA52 3245 (17.74%) 3184 (15.53%) 3203 (16.22%) 3313 (20.21%) 3337 (21.08%) 2756* TA53 3078 (13.29%) 3085 (13.54%) 3083 (13.47%) 3138 (15.5%) 3122 (14.91%) 2717* TA54 3131 (10.29%) 3070 (8.14%) 3131 (10.29%) 3218 (13.35%) 3163 (11.41%) 2839* TA55 3217 (20.08%) 3192 (19.15%) 3172 (18.4%) 3221 (20.23%) 3247 (21.2%) 2679* TA56 3123 (12.3%) 3094 (11.25%) 3207 (15.32%) 3190 (14.71%) 3290 (18.3%) 2781* TA57 3332 (13.22%) 3313 (15.01%) 3300 (14.38%) 3354 (13.97%) 3437 (16.79%) 2943* TA58 3324 (15.22%) 3318 (15.01%) 3300 (14.38%) 3354 (13.97%) 3437 (16.79%) 2943* TA59 3144 (18.42%) 3122 (17.59%) 3179 (19.74%) 3226 (21.51%) 3196 (20.38%) 2655* TA60 3067 (12.63%) 3076 (12.96%) 3153 (15.79%) 3124 (14.73%) 3098 (13.77%) 2723*  TA61 3357 (17.05%) 3324 (15.97%) 3366 (17.36%) 3441 (18.89%) 3495 (21.86%) 2869* TA63 3162 (14.77%) 3162 (14.77%) 3237 (17.5%) 3225 (17.06%) 3232 (17.31%) 2755* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.00%) 3314 (21.14%) 2702* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.00%) 3141 (21.00%) 3141 (21.00%) 3141 (21.00%) 3141 (21.00%) 3141 (21.00%) 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3550 (17.86%) 3553 (18.63%) 2995* TA77 60 3314 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 3553 (18.63%) 2995* TA77 5865 (7.89%) 5794 (8.14%) 5923 (9.18%) 5794 (8.14%) 5924 (19.06%) 5358* TA79 5848 (9.15%) 5794 (7.2%) 5923 (9.18%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                        | 0   | TA44     | 2334 (17.94%) | 2326 (17.53%) | 2420 (22.28%) | 2445 (23.55%) | 2506 (26.63%) | 1979* |
| TA47 2258 (19.53%) 2262 (19.75%) 2257 (19.48%) 2349 (24.35%) 2398 (26.95%) 1889* TA48 2389 (23.34%) 2397 (23.75%) 2378 (22.77%) 2479 (27.98%) 2471 (27.57%) 1937* TA49 2413 (23.05%) 2376 (21.16%) 2455 (25.19%) 2419 (23.36%) 2428 (23.81%) 1961* TA50 2375 (23.5%) 2355 (22.46%) 2409 (25.27%) 2425 (26.11%) 2434 (26.57%) 1923*  TA51 3409 (23.51%) 3418 (23.84%) 3448 (24.93%) 3518 (27.46%) 3394 (22.97%) 2760* TA52 3245 (17.74%) 3184 (15.53%) 3203 (16.22%) 3313 (20.21%) 3337 (21.08%) 2756* TA53 3078 (13.29%) 3085 (13.54%) 3083 (13.47%) 3138 (15.5%) 3122 (14.91%) 2717* TA54 3131 (10.29%) 3070 (8.14%) 3131 (10.29%) 3218 (13.35%) 3163 (11.41%) 2839* TA55 3217 (20.08%) 3192 (19.15%) 3172 (18.4%) 3221 (20.23%) 3247 (21.2%) 2679* TA56 3123 (12.3%) 3094 (11.25%) 3207 (15.32%) 3190 (14.71%) 3290 (18.3%) 2781* TA57 3332 (13.22%) 3313 (15.01%) 3300 (14.38%) 3354 (13.97%) 3437 (16.79%) 2943* TA58 3324 (15.22%) 3318 (15.01%) 3300 (14.38%) 3354 (13.97%) 3437 (16.79%) 2943* TA59 3144 (18.42%) 3122 (17.59%) 3179 (19.74%) 3226 (21.51%) 3196 (20.38%) 2655* TA60 3067 (12.63%) 3076 (12.96%) 3153 (15.79%) 3124 (14.73%) 3098 (13.77%) 2723*  TA61 3357 (17.05%) 3324 (15.97%) 3366 (17.36%) 3441 (18.89%) 3495 (21.86%) 2869* TA63 3162 (14.77%) 3162 (14.77%) 3237 (17.5%) 3225 (17.06%) 3232 (17.31%) 2755* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.00%) 3314 (21.14%) 2702* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.00%) 3141 (21.00%) 3141 (21.00%) 3141 (21.00%) 3141 (21.00%) 3141 (21.00%) 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3550 (17.86%) 3553 (18.63%) 2995* TA77 60 3314 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 3553 (18.63%) 2995* TA77 5865 (7.89%) 5794 (8.14%) 5923 (9.18%) 5794 (8.14%) 5924 (19.06%) 5358* TA79 5848 (9.15%) 5794 (7.2%) 5923 (9.18%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                        | ×   | TA45     | 2432 (21.6%)  | 2385 (19.25%) | 2381 (19.05%) | 2491 (24.55%) | 2470 (23.5%)  | 2000* |
| TA47 2258 (19.53%) 2262 (19.75%) 2257 (19.48%) 2349 (24.35%) 2398 (26.95%) 1889* TA48 2389 (23.34%) 2397 (23.75%) 2378 (22.77%) 2479 (27.98%) 2471 (27.57%) 1937* TA49 2413 (23.05%) 2376 (21.16%) 2455 (25.19%) 2419 (23.36%) 2428 (23.81%) 1961* TA50 2375 (23.5%) 2355 (22.46%) 2409 (25.27%) 2425 (26.11%) 2434 (26.57%) 1923*  TA51 3409 (23.51%) 3418 (23.84%) 3448 (24.93%) 3518 (27.46%) 3394 (22.97%) 2760* TA52 3245 (17.74%) 3184 (15.53%) 3203 (16.22%) 3313 (20.21%) 3337 (21.08%) 2756* TA53 3078 (13.29%) 3085 (13.54%) 3083 (13.47%) 3138 (15.5%) 3122 (14.91%) 2717* TA54 3131 (10.29%) 3070 (8.14%) 3131 (10.29%) 3218 (13.35%) 3163 (11.41%) 2839* TA55 3217 (20.08%) 3192 (19.15%) 3172 (18.4%) 3221 (20.23%) 3247 (21.2%) 2679* TA56 3123 (12.3%) 3094 (11.25%) 3207 (15.32%) 3190 (14.71%) 3290 (18.3%) 2781* TA57 3332 (13.22%) 3313 (15.01%) 3300 (14.38%) 3354 (13.97%) 3437 (16.79%) 2943* TA58 3324 (15.22%) 3318 (15.01%) 3300 (14.38%) 3354 (13.97%) 3437 (16.79%) 2943* TA59 3144 (18.42%) 3122 (17.59%) 3179 (19.74%) 3226 (21.51%) 3196 (20.38%) 2655* TA60 3067 (12.63%) 3076 (12.96%) 3153 (15.79%) 3124 (14.73%) 3098 (13.77%) 2723*  TA61 3357 (17.05%) 3324 (15.97%) 3366 (17.36%) 3441 (18.89%) 3495 (21.86%) 2869* TA63 3162 (14.77%) 3162 (14.77%) 3237 (17.5%) 3225 (17.06%) 3232 (17.31%) 2755* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.00%) 3314 (21.14%) 2702* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.00%) 3141 (21.00%) 3141 (21.00%) 3141 (21.00%) 3141 (21.00%) 3141 (21.00%) 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3550 (17.86%) 3553 (18.63%) 2995* TA77 60 3314 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 3553 (18.63%) 2995* TA77 5865 (7.89%) 5794 (8.14%) 5923 (9.18%) 5794 (8.14%) 5924 (19.06%) 5358* TA79 5848 (9.15%) 5794 (7.2%) 5923 (9.18%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                        | 30  | TA46     | 2501 (24.68%) | 2439 (21.59%) | 2432 (21.24%) | 2517 (25.47%) | 2569 (28.07%) | 2006* |
| TA49 2413 (23.05%) 2376 (21.16%) 2455 (25.19%) 2419 (23.36%) 2428 (23.81%) 1961* TA50 2375 (23.5%) 2355 (22.46%) 2409 (25.27%) 2425 (26.11%) 2434 (26.57%) 1923*  TA51 3409 (23.51%) 3418 (23.84%) 3448 (24.93%) 3518 (27.46%) 3337 (21.08%) 2756* TA52 3245 (17.74%) 3184 (15.53%) 3203 (16.22%) 3313 (20.21%) 3337 (21.08%) 2756* TA53 3078 (13.29%) 3085 (13.54%) 3083 (13.47%) 3138 (15.5%) 3122 (14.91%) 2717* TA54 3131 (10.29%) 3070 (8.14%) 3131 (10.29%) 3218 (13.35%) 3163 (11.41%) 2839* TA55 3217 (20.08%) 3192 (19.15%) 3172 (18.4%) 3221 (20.23%) 3247 (21.2%) 2679* TA56 3123 (12.3%) 3094 (11.25%) 3207 (15.32%) 3190 (14.71%) 3290 (18.3%) 2781* TA57 3332 (13.22%) 3331 (13.18%) 3384 (14.98%) 3354 (13.97%) 3437 (16.79%) 2943* TA59 3144 (18.42%) 3122 (17.59%) 3179 (19.74%) 3226 (21.51%) 3196 (20.38%) 2655* TA60 3067 (12.63%) 3076 (12.96%) 3153 (15.79%) 3124 (14.73%) 3098 (13.77%) 2723*  TA61 3357 (17.05%) 3324 (15.9%) 3366 (17.36%) 3406 (18.76%) 3495 (21.86%) 2868* TA62 3381 (17.85%) 3356 (16.97%) 33237 (17.5%) 3225 (17.06%) 3232 (17.31%) 2755* TA64 3117 (15.36%) 3038 (12.44%) 3124 (15.62%) 3097 (14.62%) 3164 (17.11%) 2702* TA65 3301 (21.14%) 3345 (22.75%) 3343 (22.68%) 3328 (22.13%) 3144 (21.84%) 2255* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.00%) 3154 (10.10%) 3144 (20.04%) 24845* TA67 3231 (14.37%) 3209 (13.59%) 3295 (16.64%) 3378 (19.58%) 3442 (21.84%) 2255* TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3118 (12.00%) 3174 (14.01%) 2784* TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.9%) 3556 (15.79%) 3559 (15.89%) 3071* TA70 3514 (17.33%) 3501 (16.89%) 3599 (18.83%) 3530 (17.86%) 6094 (16.73%) 5995* TA75 6125 (13.59%) 6069 (12.56%) 6095 (13.04%) 6235 (13.64%) 6234 (16.34%) 5599 (10.36%) 5588 (12.94%) 5794 (6.25%) 6095 (13.04%) 6235 (13.66%) 6294 (16.73%) 5392* TA77 5865 (7.89%) 5792 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5345 (10.96%) 5358* TA79 5848 (9.15%) 5794 (8.14%) 5844 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                        |     |          |               |               |               |               |               |       |
| TA50 2375 (23.5%) 2355 (22.46%) 2409 (25.27%) 2425 (26.11%) 2434 (26.57%) 1923*  TA51 3409 (23.51%) 3418 (23.84%) 3448 (24.93%) 3518 (27.46%) 3394 (22.97%) 2760* TA52 3245 (17.74%) 3184 (15.53%) 3203 (16.22%) 3313 (20.21%) 3337 (21.08%) 2756* TA53 3078 (13.29%) 3085 (13.54%) 3083 (13.47%) 3138 (15.55%) 3122 (14.91%) 2717* TA54 3131 (10.29%) 3070 (8.14%) 3131 (10.29%) 3218 (13.35%) 3163 (11.41%) 2839* TA55 3217 (20.08%) 3192 (19.15%) 3172 (18.4%) 3221 (20.23%) 3247 (21.2%) 2679* TA56 3123 (12.3%) 3094 (11.25%) 3207 (15.32%) 3190 (14.71%) 3290 (18.3%) 2781* TA57 3332 (13.22%) 3318 (15.01%) 3384 (14.98%) 3354 (13.97%) 3437 (16.79%) 2943* TA58 3324 (15.22%) 3318 (15.01%) 3300 (14.38%) 3347 (16.01%) 3334 (15.56%) 2885* TA60 3067 (12.63%) 3076 (12.96%) 3153 (15.79%) 3124 (14.73%) 3098 (13.77%) 2723*  TA61 3357 (17.05%) 3324 (15.9%) 3366 (17.36%) 3406 (18.76%) 3495 (21.86%) 2868* TA62 3381 (17.85%) 3356 (16.97%) 3383 (17.92%) 3411 (18.89%) 3496 (21.85%) 2869* TA63 3162 (14.77%) 3162 (14.77%) 3227 (17.5%) 3225 (17.06%) 3232 (17.31%) 2755* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.01%) 3415 (20.04%) 2845* TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3118 (12.0%) 3174 (14.01%) 2702* TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3118 (12.0%) 3174 (14.01%) 2784* TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.9%) 3556 (15.79%) 3559 (15.89%) 3071* TA70 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 6294 (13.04%) 5568* TA72 5679 (9.61%) 5654 (9.13%) 5794 (6.10) 5794 (8.52%) 5859 (7.78%) 5935 (9.18%) 5346 (7.29%) 5794 (8.10%) 5794 (8.10%) 5794 (8.10%) 5794 (8.10%) 5795 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |          |               |               |               |               |               | 1937* |
| TA51 3409 (23.51%) 3418 (23.84%) 3448 (24.93%) 3518 (27.46%) 3394 (22.97%) 2760* TA52 3245 (17.74%) 3184 (15.53%) 3203 (16.22%) 3313 (20.21%) 3337 (21.08%) 2756* TA53 3078 (13.29%) 3085 (13.54%) 3083 (13.47%) 3138 (15.5%) 3122 (14.91%) 2717* TA54 3131 (10.29%) 3070 (8.14%) 3131 (10.29%) 3218 (13.35%) 3163 (11.41%) 2839* TA55 3217 (20.08%) 3192 (19.15%) 3172 (18.4%) 3221 (20.23%) 3247 (21.2%) 2679* TA56 3123 (12.3%) 3094 (11.25%) 3207 (15.32%) 3190 (14.71%) 3290 (18.3%) 2781* TA57 3332 (13.22%) 3331 (13.18%) 3384 (14.98%) 3354 (13.97%) 3437 (16.079%) 2943* TA58 3324 (15.22%) 3318 (15.01%) 3300 (14.38%) 3347 (16.01%) 3334 (15.56%) 2885* TA59 3144 (18.42%) 3122 (17.59%) 3179 (19.74%) 3226 (21.51%) 3196 (20.38%) 2655* TA60 3067 (12.63%) 3076 (12.96%) 3153 (15.79%) 3124 (14.73%) 3098 (13.77%) 2723*  TA61 3357 (17.05%) 3324 (15.97%) 3363 (17.36%) 3406 (18.76%) 3495 (21.85%) 2869* TA62 3381 (17.85%) 3356 (16.97%) 3383 (17.92%) 3411 (18.89%) 3496 (21.85%) 2869* TA63 3162 (14.77%) 3162 (14.77%) 3237 (17.5%) 3225 (17.06%) 3232 (17.31%) 2755* TA64 3117 (15.36%) 3038 (12.44%) 3124 (15.62%) 3097 (14.62%) 3164 (17.1%) 2702* TA65 3301 (21.14%) 3345 (22.75%) 3343 (22.68%) 3328 (22.13%) 3314 (21.61%) 2725* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.01%) 3415 (20.04%) 2845* TA67 3231 (14.37%) 3209 (13.59%) 3295 (16.64%) 3378 (19.58%) 3442 (21.84%) 2825* TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3118 (12.0%) 3174 (14.01%) 2784* TA69 3538 (15.21%) 3476 (13.19%) 3599 (18.83%) 3550 (15.89%) 3559 (15.89%) 3071* TA70 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3550 (17.86%) 6238 (14.17%) 5464* TA72 5679 (9.61%) 5654 (9.13%) 6035 (12.92%) 6077 (13.76%) 6060 (13.44%) 5342* TA75 6125 (13.59%) 5695 (59.59%) 5829 (9.18%) 5794 (8.52%) 5859 (9.13%) 5568* TA75 6125 (13.59%) 5696 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5346* TA75 5680 (6.39%) 5658 (5.97%) 5829 (9.18%) 5794 (8.52%) 5859 (9.14%) 5339* TA75 6125 (13.59%) 5792 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5346* TA77 5865 (7.89%) 5792 (6.55%) 5945 (9.36%) 58 |     |          |               |               |               |               |               |       |
| TA52 3245 (17.74%) 3184 (15.53%) 3203 (16.22%) 3313 (20.21%) 3337 (21.08%) 2756* TA53 3078 (13.29%) 3085 (13.54%) 3083 (13.47%) 3138 (15.5%) 3122 (14.91%) 2717* TA54 3131 (10.29%) 3070 (8.14%) 3131 (10.29%) 3218 (13.35%) 3163 (11.41%) 2839* TA55 3217 (20.08%) 3192 (19.15%) 3172 (18.4%) 3221 (20.23%) 3247 (21.2%) 2679* TA56 3123 (12.3%) 3094 (11.25%) 3207 (15.32%) 3190 (14.71%) 3290 (18.3%) 2781* TA57 3332 (13.22%) 3331 (13.18%) 3384 (14.98%) 3354 (13.97%) 3437 (16.79%) 2943* TA58 3324 (15.22%) 3318 (15.01%) 3300 (14.38%) 3354 (16.01%) 3334 (15.56%) 2885* TA59 3144 (18.42%) 3122 (17.59%) 3179 (19.74%) 3226 (21.51%) 3196 (20.38%) 2655* TA60 3067 (12.63%) 3076 (12.96%) 3153 (15.79%) 3124 (14.73%) 3098 (13.77%) 2723*  TA61 3357 (17.05%) 3324 (15.9%) 3366 (17.36%) 3406 (18.76%) 3495 (21.86%) 2869* TA62 3381 (17.85%) 3355 (16.97%) 3383 (17.92%) 3411 (18.89%) 3496 (21.85%) 2869* TA63 3162 (14.77%) 3162 (14.77%) 3237 (17.5%) 3225 (17.06%) 3232 (17.31%) 2755* TA64 3117 (15.36%) 3038 (12.44%) 3124 (15.62%) 3097 (14.62%) 3164 (17.1%) 2702* TA65 3301 (21.14%) 3345 (22.75%) 3343 (22.68%) 3328 (22.13%) 3314 (21.61%) 2725* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.01%) 3415 (20.04%) 2845* TA67 3231 (14.37%) 3209 (13.59%) 3295 (16.64%) 3378 (19.58%) 3442 (21.84%) 2825* TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3118 (12.0%) 3174 (14.01%) 2784* TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.9%) 3556 (15.79%) 3559 (18.63%) 2995* TA70 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3550 (15.78%) 3559 (18.36%) 5568* TA73 6124 (17.33%) 5605 (6.99 (13.56%) 6095 (13.61%) 6325 (13.65%) 6294 (13.04%) 5568* TA73 6125 (13.59%) 6069 (12.56%) 6095 (13.04%) 6275 (13.14%) 5955 (11.14%) 5945 (10.96%) 5358*  TA75 6125 (13.59%) 592 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5548* TA75 5848 (9.15%) 5794 (8.14%) 5834 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                      |     | TA50     | 2375 (23.5%)  | 2355 (22.46%) | 2409 (25.27%) | 2425 (26.11%) | 2434 (26.57%) | 1923* |
| TA53 3078 (13.29%) 3085 (13.54%) 3083 (13.47%) 3138 (15.5%) 3122 (14.91%) 2717* TA54 3131 (10.29%) 3070 (8.14%) 3131 (10.29%) 3218 (13.35%) 3163 (11.41%) 2839* TA55 3217 (20.08%) 3192 (19.15%) 3172 (18.4%) 3221 (20.23%) 3247 (21.2%) 2679* TA56 3123 (12.3%) 3094 (11.25%) 3207 (15.32%) 3190 (14.71%) 3290 (18.3%) 2781* TA57 3332 (13.22%) 3331 (13.18%) 3384 (14.98%) 3354 (13.97%) 3437 (16.79%) 2943* TA58 3324 (15.22%) 3318 (15.01%) 3300 (14.38%) 3347 (16.01%) 3334 (15.56%) 2885* TA59 3144 (18.42%) 3122 (17.59%) 3179 (19.74%) 3226 (21.51%) 3196 (20.38%) 2655* TA60 3067 (12.63%) 3076 (12.96%) 3153 (15.79%) 3124 (14.73%) 3098 (13.77%) 2723*  TA61 3357 (17.05%) 3324 (15.9%) 3366 (17.36%) 3406 (18.76%) 3495 (21.86%) 2868* TA62 3381 (17.85%) 3356 (16.97%) 33237 (17.5%) 3225 (17.06%) 3232 (17.31%) 2755* TA64 3117 (15.36%) 3038 (12.44%) 3227 (17.5%) 3225 (17.06%) 3232 (17.31%) 2755* TA64 3117 (15.36%) 3038 (12.44%) 3124 (15.62%) 3097 (14.62%) 3164 (17.1%) 2702* TA65 3301 (21.14%) 3345 (22.75%) 3343 (22.68%) 3328 (22.13%) 3144 (21.61%) 2725* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.00%) 3415 (20.04%) 2845* TA67 3231 (14.37%) 3209 (13.59%) 3295 (16.64%) 3378 (19.58%) 3442 (21.84%) 2825* TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3118 (12.0%) 3174 (14.01%) 2784* TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.9%) 3556 (15.79%) 3559 (15.89%) 3071* TA70 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 3553 (18.63%) 2995*  TA71 5990 (9.63%) 5989 (9.61%) 6055 (10.82%) 6142 (12.41%) 6238 (14.17%) 5464* TA73 6144 (10.34%) 6197 (11.3%) 6326 (13.61%) 6325 (13.65%) 6294 (13.04%) 5568* TA74 5680 (6.39%) 5568 (5.97%) 5829 (9.18%) 5794 (8.52%) 5859 (9.74%) 5339* TA75 6125 (13.59%) 6069 (12.56%) 6095 (13.04%) 6275 (16.34%) 6294 (16.73%) 5392* TA75 6125 (13.59%) 5792 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5346* TA77 5865 (7.89%) 5792 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5346* TA77 5865 (7.89%) 5792 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (10.96%) 5358*                                                     |     |          |               |               |               |               |               |       |
| TA54 3131 (10.29%) 3070 (8.14%) 3131 (10.29%) 3218 (13.35%) 3163 (11.41%) 2839* TA55 3217 (20.08%) 3192 (19.15%) 3172 (18.4%) 3221 (20.23%) 3247 (21.2%) 2679* TA56 3123 (12.3%) 3094 (11.25%) 3207 (15.32%) 3190 (14.71%) 3290 (18.3%) 2781* TA57 3332 (13.22%) 3331 (13.18%) 3384 (14.98%) 3354 (13.97%) 3437 (16.79%) 2943* TA58 3324 (15.22%) 3318 (15.01%) 3300 (14.38%) 3347 (16.01%) 3334 (15.66%) 2885* TA69 3144 (18.42%) 3122 (17.59%) 3179 (19.74%) 3226 (21.51%) 3196 (20.38%) 2655* TA60 3067 (12.63%) 3076 (12.96%) 3179 (19.74%) 3226 (21.51%) 3196 (20.38%) 2655* TA63 3361 (17.85%) 3324 (15.9%) 3366 (17.36%) 3406 (18.76%) 3495 (21.86%) 2868* TA62 3381 (17.85%) 3356 (16.97%) 3333 (17.92%) 3411 (18.89%) 3496 (21.85%) 2869* TA63 3162 (14.77%) 3162 (14.77%) 3227 (17.5%) 3225 (17.06%) 3232 (17.31%) 2755* TA64 3117 (15.36%) 3038 (12.44%) 3124 (15.62%) 3097 (14.62%) 3164 (17.11%) 2702* TA65 3301 (21.14%) 3345 (22.75%) 3343 (22.68%) 3328 (22.13%) 3314 (21.61%) 2755* TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3188 (19.58%) 3442 (21.84%) 2825* TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3118 (12.0%) 3174 (14.01%) 2784* TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.9%) 3556 (15.79%) 3559 (15.89%) 3071* TA70 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 6238 (14.17%) 5464* TA73 6144 (10.34%) 6197 (11.3%) 6326 (13.61%) 6325 (13.65%) 6294 (13.04%) 5568* TA75 6125 (13.59%) 5658 (5.97%) 5829 (9.18%) 5794 (8.52%) 5859 (9.74%) 5339* TA76 6033 (12.94%) 6035 (12.97%) 6032 (12.92%) 6077 (13.76%) 6060 (13.44%) 5342* TA77 5865 (7.89%) 5792 (6.55%) 5945 (9.36%) 6859 (11.96%) 5355 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |          |               |               |               |               |               |       |
| TA55 3217 (20.08%) 3192 (19.15%) 3172 (18.4%) 3221 (20.23%) 3247 (21.2%) 2679* TA56 3123 (12.3%) 3094 (11.25%) 3207 (15.32%) 3190 (14.71%) 3290 (18.3%) 2781* TA57 3332 (13.22%) 3331 (13.18%) 3384 (14.98%) 3354 (13.97%) 3437 (16.79%) 2943* TA58 3324 (15.22%) 3318 (15.01%) 3300 (14.38%) 3347 (16.01%) 3334 (15.56%) 2885* TA59 3144 (18.42%) 3122 (17.59%) 3179 (19.74%) 3226 (21.51%) 3196 (20.38%) 2655* TA60 3067 (12.63%) 3076 (12.96%) 3153 (15.79%) 3124 (14.73%) 3098 (13.77%) 2723*  TA61 3357 (17.05%) 3324 (15.9%) 3366 (17.36%) 3406 (18.76%) 3495 (21.86%) 2868* TA62 3381 (17.85%) 3356 (16.97%) 3383 (17.92%) 3411 (18.89%) 3496 (21.85%) 2869* TA63 3162 (14.77%) 3162 (14.77%) 3237 (17.5%) 3225 (17.06%) 3232 (17.31%) 2755* TA64 3117 (15.36%) 3038 (12.44%) 3124 (15.62%) 3097 (14.62%) 3164 (17.1%) 2702* TA65 3301 (21.14%) 3345 (22.75%) 3343 (22.68%) 3328 (22.13%) 3314 (21.61%) 2725* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.01%) 3415 (20.04%) 2845* TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.25%) 3118 (12.0%) 3174 (14.01%) 2784* TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.99%) 3556 (15.79%) 3559 (15.89%) 3071* TA70 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 3553 (18.63%) 2995*  TA71 5990 (9.63%) 5989 (9.61%) 6032 (12.92%) 6077 (13.76%) 6029 (16.34%) 5568* TA75 6125 (13.55%) 5792 (6.55%) 5945 (9.36%) 6325 (13.64%) 6294 (16.73%) 5392* TA76 6033 (12.94%) 6035 (12.97%) 6095 (13.04%) 6277 (13.76%) 6060 (13.44%) 5342* TA77 5865 (7.89%) 5792 (6.55%) 5945 (9.36%) 6859 (7.78%) 5935 (9.18%) 5335 (11.96%) 5335 (11.96%) 5336 (11.96%) 5336 (11.96%) 5336 (11.96%) 5336 (11.96%) 5338 (11.96%) 5348 (11.96%) 5794 (8.14%) 5945 (11.96%) 5338* TA79 5848 (9.15%) 5794 (8.14%) 5844 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                   |     |          |               |               |               |               |               |       |
| TASS 3332 (13.22%) 3318 (13.18%) 3384 (14.98%) 3354 (13.97%) 3437 (16.79%) 2943* TASS 3324 (15.22%) 3318 (15.01%) 3300 (14.38%) 3347 (16.01%) 3334 (15.56%) 2885* TAS9 3144 (18.42%) 3122 (17.59%) 3179 (19.74%) 3226 (21.51%) 3196 (20.38%) 2655* TA60 3067 (12.63%) 3076 (12.96%) 3153 (15.79%) 3124 (14.73%) 3098 (13.77%) 2723*  TA61 3357 (17.05%) 3324 (15.97%) 3366 (17.36%) 3406 (18.76%) 3495 (21.86%) 2869* TA62 3381 (17.85%) 3356 (16.97%) 3383 (17.92%) 3411 (18.89%) 3496 (21.85%) 2869* TA63 3162 (14.77%) 3162 (14.77%) 3227 (17.5%) 3225 (17.06%) 3232 (17.31%) 2755* TA64 3117 (15.36%) 3038 (12.44%) 3124 (15.62%) 3097 (14.62%) 3164 (17.1%) 2702* TA65 3301 (21.14%) 3345 (22.75%) 3343 (22.68%) 3328 (22.13%) 3314 (21.61%) 2725* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.01%) 3415 (20.04%) 2845* TA67 3231 (14.37%) 3209 (13.59%) 3295 (16.64%) 3378 (19.58%) 3442 (21.84%) 2825* TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3118 (12.0%) 3174 (14.01%) 2784* TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.9%) 3556 (15.79%) 3559 (15.89%) 3071* TA70 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 3553 (18.63%) 2995*  TA71 5990 (9.63%) 5989 (9.61%) 6055 (10.82%) 6142 (12.41%) 6238 (14.17%) 5464* TA72 5679 (9.61%) 5654 (9.13%) 5746 (10.91%) 5765 (11.27%) 5771 (11.39%) 5181* TA73 6144 (10.34%) 6197 (11.3%) 6326 (13.61%) 6325 (13.65%) 6294 (13.04%) 5568* TA74 5680 (6.39%) 5658 (5.97%) 5829 (9.18%) 5794 (8.52%) 5859 (9.74%) 5339* TA75 6125 (13.59%) 6069 (12.56%) 6095 (13.04%) 6277 (16.34%) 6294 (16.73%) 5392* TA75 6125 (13.59%) 5792 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5346* TA77 5865 (7.89%) 5792 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5346* TA78 5818 (7.86%) 5794 (7.42%) 5923 (9.81%) 6039 (11.96%) 6133 (14.96%) 5358*                                                                                                                                                                                                                                                                                                  | 3   |          |               |               |               |               |               |       |
| TASS 3332 (13.22%) 3318 (13.18%) 3384 (14.98%) 3354 (13.97%) 3437 (16.79%) 2943* TASS 3324 (15.22%) 3318 (15.01%) 3300 (14.38%) 3347 (16.01%) 3334 (15.56%) 2885* TAS9 3144 (18.42%) 3122 (17.59%) 3179 (19.74%) 3226 (21.51%) 3196 (20.38%) 2655* TA60 3067 (12.63%) 3076 (12.96%) 3153 (15.79%) 3124 (14.73%) 3098 (13.77%) 2723*  TA61 3357 (17.05%) 3324 (15.97%) 3366 (17.36%) 3406 (18.76%) 3495 (21.86%) 2869* TA62 3381 (17.85%) 3356 (16.97%) 3383 (17.92%) 3411 (18.89%) 3496 (21.85%) 2869* TA63 3162 (14.77%) 3162 (14.77%) 3227 (17.5%) 3225 (17.06%) 3232 (17.31%) 2755* TA64 3117 (15.36%) 3038 (12.44%) 3124 (15.62%) 3097 (14.62%) 3164 (17.1%) 2702* TA65 3301 (21.14%) 3345 (22.75%) 3343 (22.68%) 3328 (22.13%) 3314 (21.61%) 2725* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.01%) 3415 (20.04%) 2845* TA67 3231 (14.37%) 3209 (13.59%) 3295 (16.64%) 3378 (19.58%) 3442 (21.84%) 2825* TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3118 (12.0%) 3174 (14.01%) 2784* TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.9%) 3556 (15.79%) 3559 (15.89%) 3071* TA70 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 3553 (18.63%) 2995*  TA71 5990 (9.63%) 5989 (9.61%) 6055 (10.82%) 6142 (12.41%) 6238 (14.17%) 5464* TA72 5679 (9.61%) 5654 (9.13%) 5746 (10.91%) 5765 (11.27%) 5771 (11.39%) 5181* TA73 6144 (10.34%) 6197 (11.3%) 6326 (13.61%) 6325 (13.65%) 6294 (13.04%) 5568* TA74 5680 (6.39%) 5658 (5.97%) 5829 (9.18%) 5794 (8.52%) 5859 (9.74%) 5339* TA75 6125 (13.59%) 6069 (12.56%) 6095 (13.04%) 6277 (16.34%) 6294 (16.73%) 5392* TA75 6125 (13.59%) 5792 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5346* TA77 5865 (7.89%) 5792 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5346* TA78 5818 (7.86%) 5794 (7.42%) 5923 (9.81%) 6039 (11.96%) 6133 (14.96%) 5358*                                                                                                                                                                                                                                                                                                  | ×   |          |               |               |               |               |               |       |
| TA58 3324 (15.22%) 3318 (15.01%) 3300 (14.38%) 3347 (16.01%) 3334 (15.56%) 2885* TA59 3144 (18.42%) 3122 (17.59%) 3179 (19.74%) 3226 (21.51%) 3196 (20.38%) 2655* TA60 3067 (12.63%) 3076 (12.96%) 3153 (15.79%) 3124 (14.73%) 3098 (13.77%) 2723*  TA61 3357 (17.05%) 3324 (15.9%) 3366 (17.36%) 3406 (18.76%) 3495 (21.86%) 2868* TA62 3381 (17.85%) 3356 (16.97%) 3383 (17.92%) 3411 (18.89%) 3496 (21.85%) 2869* TA63 3162 (14.77%) 3162 (14.77%) 3237 (17.5%) 3225 (17.06%) 3232 (17.31%) 2755* TA64 3117 (15.36%) 3038 (12.44%) 3124 (15.62%) 3097 (14.62%) 3164 (17.1%) 2702* TA65 3301 (21.14%) 3345 (22.75%) 3343 (22.68%) 3328 (22.13%) 3314 (21.61%) 2725* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.01%) 3415 (20.04%) 2845* TA67 3231 (14.37%) 3209 (13.59%) 3295 (16.64%) 3378 (19.58%) 3442 (21.84%) 2825* TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3118 (12.0%) 3174 (14.01%) 2784* TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.9%) 3556 (15.79%) 3559 (15.89%) 3071* TA70 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 3553 (18.63%) 2995*  TA71 5990 (9.63%) 5989 (9.61%) 6055 (10.82%) 6142 (12.41%) 6238 (14.17%) 5464* TA72 5679 (9.61%) 5654 (9.13%) 5746 (10.91%) 5765 (11.27%) 5771 (11.39%) 5181* TA73 6144 (10.34%) 6197 (11.3%) 6326 (13.61%) 6325 (13.6%) 6294 (13.04%) 5568* TA75 6125 (13.59%) 6069 (12.56%) 6095 (13.04%) 6273 (16.34%) 6294 (16.73%) 5392* TA76 6033 (12.94%) 6035 (12.97%) 6095 (13.04%) 6273 (16.34%) 6294 (16.73%) 5392* TA78 5818 (7.86%) 5794 (7.42%) 5923 (9.81%) 6039 (11.96%) 6153 (14.07%) 5338* TA79 5848 (9.15%) 5794 (8.14%) 5834 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 50  |          |               |               |               |               |               |       |
| TA59 3144 (18.42%) 3122 (17.59%) 3179 (19.74%) 3226 (21.51%) 3196 (20.38%) 2655* TA60 3067 (12.63%) 3076 (12.96%) 3153 (15.79%) 3124 (14.73%) 3098 (13.77%) 2723*  TA61 3357 (17.05%) 3324 (15.9%) 3366 (17.36%) 3406 (18.76%) 3495 (21.86%) 2868* TA62 3381 (17.85%) 3356 (16.97%) 3383 (17.92%) 3411 (18.89%) 3496 (21.85%) 2869* TA63 3162 (14.77%) 3162 (14.77%) 3237 (17.5%) 3225 (17.06%) 3232 (17.31%) 2755* TA64 3117 (15.36%) 3038 (12.44%) 3124 (15.62%) 3097 (14.62%) 3164 (17.1%) 2702* TA65 3301 (21.14%) 3345 (22.75%) 3343 (22.68%) 3328 (22.13%) 3314 (21.61%) 2725* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.01%) 3415 (20.04%) 2845* TA67 3231 (14.37%) 3209 (13.59%) 3295 (16.64%) 3378 (19.58%) 3442 (21.84%) 2825* TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3118 (12.0%) 3174 (14.01%) 2784* TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.9%) 3556 (15.79%) 3559 (15.89%) 3071* TA70 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 3553 (18.63%) 2995*  TA71 5990 (9.63%) 5989 (9.61%) 6055 (10.82%) 6142 (12.41%) 6238 (14.17%) 5464* TA72 5679 (9.61%) 5654 (9.13%) 5746 (10.91%) 5765 (11.27%) 5771 (11.39%) 5181* TA73 6144 (10.34%) 6197 (11.3%) 6326 (13.61%) 6325 (13.65%) 6294 (13.04%) 5568* TA74 5680 (6.39%) 5658 (5.97%) 5829 (9.18%) 5794 (8.52%) 5859 (9.74%) 5339* TA75 6125 (13.59%) 6069 (12.56%) 6095 (13.04%) 6277 (16.34%) 6294 (16.73%) 5392* TA75 6125 (13.59%) 5792 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5346* TA78 5818 (7.86%) 5794 (6.25%) 5942 (9.36%) 5859 (7.78%) 5935 (9.18%) 5346* TA78 5818 (7.86%) 5794 (6.25%) 5943 (9.36%) 5859 (7.78%) 5935 (9.18%) 5346* TA79 5848 (9.15%) 5794 (8.14%) 5834 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                                                                                         |     |          |               |               |               |               |               |       |
| TA60 3067 (12.63%) 3076 (12.96%) 3153 (15.79%) 3124 (14.73%) 3098 (13.77%) 2723*  TA61 3357 (17.05%) 3324 (15.9%) 3366 (17.36%) 3406 (18.76%) 3495 (21.86%) 2868* TA62 3381 (17.85%) 3356 (16.97%) 3383 (17.92%) 3411 (18.89%) 3496 (21.85%) 2869* TA63 3162 (14.77%) 3162 (14.77%) 3237 (17.5%) 3225 (17.06%) 3232 (17.31%) 2755* TA64 3117 (15.36%) 3038 (12.44%) 3124 (15.62%) 3097 (14.62%) 3164 (17.1%) 2702* TA65 3301 (21.14%) 3345 (22.75%) 3343 (22.68%) 3328 (22.13%) 3144 (21.61%) 2725* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.01%) 3415 (20.04%) 2845* TA67 3231 (14.37%) 3209 (13.59%) 3295 (16.64%) 3378 (19.58%) 3442 (21.84%) 2825* TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3118 (12.0%) 3174 (14.01%) 2784* TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.9%) 3556 (15.79%) 3559 (15.89%) 3071* TA70 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 3553 (18.63%) 2995*  TA71 5990 (9.63%) 5989 (9.61%) 6055 (10.82%) 6142 (12.41%) 6238 (14.17%) 5464* TA72 5679 (9.61%) 5654 (9.13%) 5746 (10.91%) 5765 (11.27%) 5771 (11.39%) 5181* TA73 6144 (10.34%) 6197 (11.3%) 6326 (13.61%) 6325 (13.65%) 6294 (13.04%) 5568* TA74 5680 (6.39%) 5658 (5.97%) 5829 (9.18%) 5794 (8.52%) 5859 (9.74%) 5339* TA75 6125 (13.59%) 6069 (12.56%) 6095 (13.04%) 6277 (16.34%) 6294 (16.73%) 5392* TA77 5865 (7.89%) 5792 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5342* TA77 5865 (7.89%) 5794 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5346* TA79 5848 (9.15%) 5794 (8.14%) 5834 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |          |               |               |               |               |               |       |
| TA61 3357 (17.05%) 3324 (15.9%) 3366 (17.36%) 3406 (18.76%) 3495 (21.86%) 2868* TA62 3381 (17.85%) 3356 (16.97%) 3383 (17.92%) 3411 (18.89%) 3496 (21.85%) 2869* TA63 3162 (14.77%) 3162 (14.77%) 3237 (17.5%) 3225 (17.06%) 3232 (17.31%) 2755* TA64 3117 (15.36%) 3038 (12.44%) 3124 (15.62%) 3097 (14.62%) 3164 (17.1%) 2702* TA65 3301 (21.14%) 3345 (22.75%) 3343 (22.68%) 3328 (22.13%) 3314 (21.61%) 2725* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.01%) 3415 (20.04%) 2845* TA67 3231 (14.37%) 3209 (13.59%) 3295 (16.64%) 3378 (19.58%) 3442 (21.84%) 2825* TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3118 (12.00%) 3174 (14.01%) 2784* TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.9%) 3556 (15.79%) 3559 (15.89%) 3071* TA70 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 3553 (18.63%) 2995*  TA71 5990 (9.63%) 5989 (9.61%) 6055 (10.82%) 6142 (12.41%) 6238 (14.17%) 5464* TA72 5679 (9.61%) 5654 (9.13%) 5746 (10.91%) 5765 (11.27%) 5771 (11.39%) 5181* TA73 6144 (10.34%) 6197 (11.3%) 6326 (13.61%) 6325 (13.6%) 6294 (13.04%) 5568* TA74 5680 (6.39%) 5658 (5.97%) 5829 (9.18%) 5794 (8.52%) 5859 (9.74%) 5339* TA75 6125 (13.59%) 6069 (12.56%) 6095 (13.04%) 6273 (16.34%) 6294 (16.73%) 5392* TA76 6033 (12.94%) 6035 (12.97%) 6032 (12.92%) 6077 (13.76%) 6060 (13.44%) 5392* TA78 5818 (7.86%) 5794 (7.42%) 5923 (9.81%) 6039 (11.96%) 6153 (14.07%) 5394* TA79 5848 (9.15%) 5794 (8.14%) 5834 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |          |               |               |               |               |               |       |
| TA62 3381 (17.85%) 3356 (16.97%) 3383 (17.92%) 3411 (18.89%) 3496 (21.85%) 2869* TA63 3162 (14.77%) 3162 (14.77%) 3237 (17.5%) 3225 (17.06%) 3232 (17.31%) 2755* TA64 3117 (15.36%) 3038 (12.44%) 3124 (15.62%) 3097 (14.62%) 3164 (17.1%) 2702* TA65 3301 (21.14%) 3345 (22.75%) 3343 (22.68%) 3328 (22.13%) 3314 (21.61%) 2725* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.01%) 3415 (20.04%) 2845* TA67 3231 (14.37%) 3209 (13.59%) 3295 (16.64%) 3378 (19.58%) 3442 (21.84%) 2825* TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3118 (12.0%) 3174 (14.01%) 2784* TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.9%) 3556 (15.79%) 3559 (15.89%) 3071* TA70 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 3553 (18.63%) 2995*  TA71 5990 (9.63%) 5989 (9.61%) 6055 (10.82%) 6142 (12.41%) 6238 (14.17%) 5464* TA72 5679 (9.61%) 5654 (9.13%) 5746 (10.91%) 5765 (11.27%) 5771 (11.39%) 5181* TA73 6144 (10.34%) 6197 (11.3%) 6326 (13.61%) 6325 (13.6%) 6294 (13.04%) 5568* TA74 5680 (6.39%) 5658 (5.97%) 5829 (9.18%) 5794 (8.52%) 5859 (9.74%) 5339* TA75 6125 (13.59%) 6069 (12.56%) 6095 (13.04%) 6273 (16.34%) 6294 (16.73%) 5392* TA77 5865 (7.89%) 5792 (6.55%) 5945 (9.36%) 6859 (7.78%) 5935 (9.18%) 5342* TA77 5865 (7.89%) 5794 (8.14%) 5848 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |          |               |               |               |               |               |       |
| TA63 3162 (14.77%) 3162 (14.77%) 3237 (17.5%) 3225 (17.06%) 3232 (17.31%) 2755* TA64 3117 (15.36%) 3038 (12.44%) 3124 (15.62%) 3097 (14.62%) 3164 (17.1%) 2702* TA65 3301 (21.14%) 3345 (22.75%) 3343 (22.68%) 3328 (22.13%) 3314 (21.61%) 2725* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.01%) 3415 (20.04%) 2845* TA67 3231 (14.37%) 3209 (13.59%) 3295 (16.64%) 3378 (19.58%) 3442 (21.84%) 2825* TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3118 (12.0%) 3174 (14.01%) 2784* TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.9%) 3556 (15.79%) 3559 (15.89%) 3071* TA70 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 3553 (18.63%) 2995*  TA71 5990 (9.63%) 5989 (9.61%) 6055 (10.82%) 6142 (12.41%) 6238 (14.17%) 5464* TA72 5679 (9.61%) 5654 (9.13%) 5746 (10.91%) 5765 (11.27%) 5771 (11.39%) 5181* TA73 6144 (10.34%) 6197 (11.3%) 6326 (13.61%) 6325 (13.6%) 6294 (13.04%) 5568* TA74 5680 (6.39%) 5658 (5.97%) 5829 (9.18%) 5794 (8.52%) 5859 (9.74%) 5339* TA75 6125 (13.59%) 6069 (12.56%) 6095 (13.04%) 6273 (16.34%) 6294 (16.73%) 5392* TA76 6033 (12.94%) 6035 (12.97%) 6032 (12.92%) 6077 (13.76%) 6006 (13.44%) 5342* TA77 5865 (7.89%) 5792 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5346* TA78 5818 (7.86%) 5794 (7.42%) 5923 (9.81%) 6039 (11.96%) 6153 (14.07%) 5394* TA79 5848 (9.15%) 5794 (8.14%) 5834 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |          |               | , ,           |               |               |               |       |
| TA64 3117 (15.36%) 3038 (12.44%) 3124 (15.62%) 3097 (14.62%) 3164 (17.1%) 2702* TA65 3301 (21.14%) 3345 (22.75%) 3343 (22.68%) 3328 (22.13%) 3314 (21.61%) 2725* TA66 3272 (15.01%) 3248 (14.17%) 3309 (16.31%) 3329 (17.01%) 3415 (20.04%) 2845* TA67 3231 (14.37%) 3209 (13.59%) 3295 (16.64%) 3378 (19.58%) 3442 (21.84%) 2825* TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3118 (12.0%) 3174 (14.01%) 2784* TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.9%) 3556 (15.79%) 3559 (15.89%) 3071* TA70 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 3553 (18.63%) 2995*  TA71 5990 (9.63%) 5989 (9.61%) 6055 (10.82%) 6142 (12.41%) 6238 (14.17%) 5464* TA72 5679 (9.61%) 5654 (9.13%) 5746 (10.91%) 5765 (11.27%) 5771 (11.39%) 5181* TA73 6144 (10.34%) 6197 (11.3%) 6326 (13.61%) 6325 (13.65%) 6294 (13.04%) 5568* TA74 5680 (6.39%) 5658 (5.97%) 5829 (9.18%) 5794 (8.52%) 5859 (9.74%) 5339* TA75 6125 (13.59%) 6069 (12.56%) 6095 (13.04%) 6273 (16.34%) 6294 (16.73%) 5392* TA75 6033 (12.94%) 6035 (12.97%) 6032 (12.92%) 6077 (13.76%) 6060 (13.44%) 5342* TA77 5865 (7.89%) 5792 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5346* TA78 5818 (7.86%) 5794 (7.42%) 5923 (9.81%) 6039 (11.96%) 6133 (14.07%) 5394* TA79 5848 (9.15%) 5794 (8.14%) 5834 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |          |               |               |               |               |               |       |
| ₹X         TA65         3301 (21.14%)         3345 (22.75%)         3343 (22.68%)         3328 (22.13%)         3314 (21.61%)         2725*           TA66         3272 (15.01%)         3248 (14.17%)         3309 (16.31%)         3329 (17.01%)         3414 (20.04%)         2845*           TA67         3231 (14.37%)         3209 (13.59%)         3295 (16.64%)         3378 (19.58%)         3442 (21.84%)         2825*           TA68         3101 (11.39%)         3104 (11.49%)         3153 (13.25%)         3118 (12.0%)         3174 (14.01%)         2784*           TA69         3538 (15.21%)         3476 (13.19%)         3498 (13.9%)         3556 (15.79%)         3559 (15.89%)         3071*           TA70         3514 (17.33%)         3501 (16.89%)         3559 (18.83%)         3530 (17.86%)         3559 (15.89%)         3071*           TA71         5990 (9.63%)         5989 (9.61%)         6055 (10.82%)         6142 (12.41%)         6238 (14.17%)         5464*           TA72         5679 (9.61%)         5654 (9.13%)         5746 (10.91%)         5765 (11.27%)         5771 (11.39%)         5181*           TA73         6144 (10.34%)         6197 (11.3%)         6326 (13.61%)         6325 (13.6%)         6294 (13.04%)         5568*           TA75         6125 (13.59%) <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |          |               |               |               |               |               |       |
| TA66 3231 (14.37%) 3209 (13.59%) 3295 (16.64%) 3378 (19.58%) 3442 (21.84%) 2825* TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3118 (12.0%) 3174 (14.01%) 2784* TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.9%) 3556 (15.79%) 3559 (15.89%) 3071* TA70 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 3553 (18.63%) 2995*  TA71 5990 (9.63%) 5989 (9.61%) 6055 (10.82%) 6142 (12.41%) 6238 (14.17%) 5464* TA72 5679 (9.61%) 5654 (9.13%) 5746 (10.91%) 5765 (11.27%) 5771 (11.39%) 5181* TA73 6144 (10.34%) 6197 (11.3%) 6326 (13.61%) 6325 (13.6%) 6294 (13.04%) 5568* TA74 5680 (6.39%) 5658 (5.97%) 5829 (9.18%) 5794 (8.52%) 5859 (9.74%) 5339* TA75 6125 (13.59%) 6069 (12.56%) 6095 (13.04%) 6273 (16.34%) 6294 (16.73%) 5392* TA76 6033 (12.94%) 6035 (12.97%) 6032 (12.92%) 6077 (13.76%) 6060 (13.44%) 5342* TA77 5865 (7.89%) 5792 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5436* TA78 5818 (7.86%) 5794 (8.14%) 5923 (9.81%) 6039 (11.96%) 6153 (14.07%) 5394* TA79 5848 (9.15%) 5794 (8.14%) 5834 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 20  |          |               |               |               |               |               |       |
| TA66 3231 (14.37%) 3209 (13.59%) 3295 (16.64%) 3378 (19.58%) 3442 (21.84%) 2825* TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3118 (12.0%) 3174 (14.01%) 2784* TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.9%) 3556 (15.79%) 3559 (15.89%) 3071* TA70 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 3553 (18.63%) 2995*  TA71 5990 (9.63%) 5989 (9.61%) 6055 (10.82%) 6142 (12.41%) 6238 (14.17%) 5464* TA72 5679 (9.61%) 5654 (9.13%) 5746 (10.91%) 5765 (11.27%) 5771 (11.39%) 5181* TA73 6144 (10.34%) 6197 (11.3%) 6326 (13.61%) 6325 (13.6%) 6294 (13.04%) 5568* TA74 5680 (6.39%) 5658 (5.97%) 5829 (9.18%) 5794 (8.52%) 5859 (9.74%) 5339* TA75 6125 (13.59%) 6069 (12.56%) 6095 (13.04%) 6273 (16.34%) 6294 (16.73%) 5392* TA76 6033 (12.94%) 6035 (12.97%) 6032 (12.92%) 6077 (13.76%) 6060 (13.44%) 5342* TA77 5865 (7.89%) 5792 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5436* TA78 5818 (7.86%) 5794 (8.14%) 5923 (9.81%) 6039 (11.96%) 6153 (14.07%) 5394* TA79 5848 (9.15%) 5794 (8.14%) 5834 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ×   |          |               |               |               |               |               |       |
| TA68 3101 (11.39%) 3104 (11.49%) 3153 (13.25%) 3118 (12.0%) 3174 (14.01%) 2784* TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.9%) 3556 (15.79%) 3559 (15.89%) 3071* TA70 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 3553 (18.63%) 2995*  TA71 5990 (9.63%) 5989 (9.61%) 6055 (10.82%) 6142 (12.41%) 6238 (14.17%) 5464* TA72 5679 (9.61%) 5654 (9.13%) 5746 (10.91%) 5765 (11.27%) 5771 (11.39%) 5181* TA73 6144 (10.34%) 6197 (11.3%) 6326 (13.61%) 6325 (13.6%) 6294 (13.04%) 5568* TA74 5680 (6.39%) 5658 (5.97%) 5829 (9.18%) 5794 (8.52%) 5859 (9.74%) 5339* TA75 6125 (13.59%) 6069 (12.56%) 6095 (13.04%) 6273 (16.34%) 6294 (16.73%) 5392* TA76 6033 (12.94%) 6035 (12.97%) 6032 (12.92%) 6077 (13.76%) 6060 (13.44%) 5342* TA77 5865 (7.89%) 5792 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5346* TA78 5818 (7.86%) 5794 (7.42%) 5923 (9.81%) 6039 (11.96%) 6133 (14.07%) 5394* TA79 5848 (9.15%) 5794 (8.14%) 5834 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Ś   |          |               |               |               |               |               |       |
| TA69 3538 (15.21%) 3476 (13.19%) 3498 (13.9%) 3556 (15.79%) 3559 (15.89%) 3071* TA70 3514 (17.33%) 3501 (16.89%) 3559 (18.83%) 3530 (17.86%) 3553 (18.63%) 2995*  TA71 5990 (9.63%) 5989 (9.61%) 6055 (10.82%) 6142 (12.41%) 6238 (14.17%) 5464* TA72 5679 (9.61%) 5654 (9.13%) 5746 (10.91%) 5765 (11.27%) 5771 (11.39%) 5181* TA73 6144 (10.34%) 6197 (11.3%) 6326 (13.61%) 6325 (13.6%) 6294 (13.04%) 5568* TA74 5680 (6.39%) 5658 (5.97%) 5829 (9.18%) 5794 (8.52%) 5859 (9.74%) 5339* TA75 6125 (13.59%) 6069 (12.56%) 6095 (13.04%) 6273 (16.34%) 6294 (16.73%) 5392* TA76 6033 (12.94%) 6035 (12.97%) 6032 (12.92%) 6077 (13.76%) 6060 (13.44%) 5342* TA77 5865 (7.89%) 5792 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5436* TA78 5818 (7.86%) 5794 (7.42%) 5923 (9.81%) 6039 (11.96%) 6153 (14.07%) 5394* TA79 5848 (9.15%) 5794 (8.14%) 5834 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |          |               |               |               |               |               |       |
| TA70         3514 (17.33%)         3501 (16.89%)         3559 (18.83%)         3530 (17.86%)         3553 (18.63%)         2995*           TA71         5990 (9.63%)         5989 (9.61%)         6055 (10.82%)         6142 (12.41%)         6238 (14.17%)         5464*           TA72         5679 (9.61%)         5654 (9.13%)         5746 (10.91%)         5765 (11.27%)         5771 (11.39%)         5181*           TA73         6144 (10.34%)         6197 (11.3%)         6326 (13.61%)         6325 (13.6%)         6294 (13.04%)         5568*           TA74         5680 (6.39%)         5658 (5.97%)         5829 (9.18%)         5794 (8.52%)         5859 (9.74%)         5339*           TA75         6125 (13.59%)         6069 (12.56%)         6095 (13.04%)         6273 (16.34%)         6294 (16.73%)         5392*           TA76         6033 (12.94%)         6035 (12.97%)         6032 (12.92%)         6077 (13.76%)         6060 (13.44%)         5342*           TA78         5818 (7.86%)         5792 (6.55%)         5945 (9.36%)         5859 (7.78%)         5935 (9.18%)         5935 (9.18%)         5935 (9.18%)         5935 (9.18%)         5348*           TA78         5818 (7.86%)         5794 (8.14%)         5834 (8.88%)         5955 (11.14%)         5945 (10.96%)         5358*  <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |          |               |               |               |               |               |       |
| TA72 5679 (9.61%) 5654 (9.13%) 5746 (10.91%) 5765 (11.27%) 5771 (11.39%) 5181*  TA73 6144 (10.34%) 6197 (11.3%) 6326 (13.61%) 6325 (13.6%) 6294 (13.04%) 5568*  TA74 5680 (6.39%) 5658 (5.97%) 5829 (9.18%) 5794 (8.52%) 5859 (9.74%) 5339*  TA75 6125 (13.59%) 6069 (12.56%) 6095 (13.04%) 6273 (16.34%) 6294 (16.73%) 5392*  TA76 6033 (12.94%) 6035 (12.97%) 6032 (12.92%) 6077 (13.76%) 6060 (13.44%) 5342*  TA77 5865 (7.89%) 5792 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5436*  TA78 5818 (7.86%) 5794 (7.42%) 5923 (9.81%) 6039 (11.96%) 6153 (14.07%) 5394*  TA79 5848 (9.15%) 5794 (8.14%) 5834 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |          |               |               |               |               |               |       |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     | TA71     | 5990 (9.63%)  | 5989 (9.61%)  | 6055 (10.82%) | 6142 (12.41%) | 6238 (14.17%) | 5464* |
| TA73 6144 (10.34%) 6197 (11.3%) 6326 (13.61%) 6325 (13.6%) 6294 (13.04%) 5568* TA74 5680 (6.39%) 5658 (5.97%) 5829 (9.18%) 5794 (8.52%) 5859 (9.74%) 5339* TA75 6125 (13.59%) 6069 (12.56%) 6095 (13.04%) 6273 (16.34%) 6294 (16.73%) 5392* TA76 6033 (12.94%) 6035 (12.97%) 6032 (12.92%) 6077 (13.76%) 6060 (13.44%) 5342* TA77 5865 (7.89%) 5792 (6.55%) 5945 (9.36%) 5859 (7.78%) 5935 (9.18%) 5436* TA78 5818 (7.86%) 5794 (7.42%) 5923 (9.81%) 6039 (11.96%) 6153 (14.07%) 5394* TA79 5848 (9.15%) 5794 (8.14%) 5834 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |          |               |               |               |               |               |       |
| Name         TA75         6125 (13.59%)         6069 (12.56%)         6095 (13.04%)         6273 (16.34%)         6294 (16.73%)         5392*           B         TA76         6033 (12.94%)         6035 (12.97%)         6032 (12.92%)         6077 (13.76%)         6060 (13.44%)         5342*           TA77         5865 (7.89%)         5792 (6.55%)         5945 (9.36%)         5859 (7.78%)         5935 (9.18%)         5436*           TA78         5818 (7.86%)         5794 (7.42%)         5923 (9.81%)         6039 (11.96%)         6153 (14.07%)         5394*           TA79         5848 (9.15%)         5794 (8.14%)         5834 (8.88%)         5955 (11.14%)         5945 (10.96%)         5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |          | 6144 (10.34%) |               | 6326 (13.61%) | 6325 (13.6%)  | 6294 (13.04%) | 5568* |
| TA79 5818 (7.86%) 5794 (6.25%) 5945 (9.36%) 5859 (7.48%) 5955 (9.18%) 5436* TA79 5818 (7.86%) 5794 (7.42%) 5923 (9.81%) 6039 (11.96%) 6153 (14.07%) 5394* TA79 5848 (9.15%) 5794 (8.14%) 5834 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 30  |          |               |               |               |               |               |       |
| TA79 5818 (7.86%) 5794 (6.25%) 5945 (9.36%) 5859 (7.48%) 5955 (9.18%) 5436* TA79 5818 (7.86%) 5794 (7.42%) 5923 (9.81%) 6039 (11.96%) 6153 (14.07%) 5394* TA79 5848 (9.15%) 5794 (8.14%) 5834 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | X   | TA75     | 6125 (13.59%) | 6069 (12.56%) | 6095 (13.04%) | 6273 (16.34%) | 6294 (16.73%) | 5392* |
| TA79 5818 (7.86%) 5794 (6.25%) 5945 (9.36%) 5859 (7.48%) 5955 (9.18%) 5436* TA79 5818 (7.86%) 5794 (7.42%) 5923 (9.81%) 6039 (11.96%) 6153 (14.07%) 5394* TA79 5848 (9.15%) 5794 (8.14%) 5834 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8   |          |               |               |               |               |               |       |
| TA79 5848 (9.15%) <b>5794 (8.14</b> %) 5834 (8.88%) 5955 (11.14%) 5945 (10.96%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1   |          |               |               |               |               |               |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |          |               |               |               |               |               |       |
| TA8U 5617 (8.37%) 5537 (6.83%) 5705 (10.07%) 5705 (10.07%) 5819 (12.27%) 5183*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |          |               |               |               |               |               |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     | 1A80     | 5617 (8.37%)  | 5537 (6.83%)  | 5/05 (10.07%) | 5/05 (10.07%) | 5819 (12.27%) | 5183* |

Table 9: Base learning on Taillard's instances.

| TA67 3231 (14.37%) 3597 (27.33%) 3601 (27.47%) 3582 (26.8%) 3640 (28.85%) 2825* TA68 3101 (11.39%) 3241 (16.42%) 3306 (18.75%) 3314 (19.04%) 3374 (21.19%) 2784* TA69 3538 (15.21%) 3639 (18.5%) 3621 (17.91%) 3670 (19.51%) 3645 (18.69%) 3071* TA70 3514 (17.33%) 3697 (23.44%) 3724 (24.34%) 3635 (21.37%) 3718 (24.14%) 2995*  TA71 5990 (9.63%) 6297 (15.25%) 6239 (14.18%) 6372 (16.62%) 6384 (16.84%) 5464* TA72 5679 (9.61%) 5791 (11.77%) 5817 (12.28%) 5847 (12.85%) 5863 (13.16%) 5181* TA73 6144 (10.34%) 6397 (14.89%) 6451 (15.86%) 6406 (15.05%) 6417 (15.25%) 5568* TA74 5680 (6.39%) 5988 (12.16%) 5938 (11.22%) 5977 (11.95%) 6018 (12.72%) 5339*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     | Instance | (15×15)       | (20×15)        | (20×20)       | (30×15)       | (30×20)       | UB    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------|---------------|----------------|---------------|---------------|---------------|-------|
| TA3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     | TA1      | 1475 (19.82%) | 1492 (21.2%)   | 1466 (19.09%) | 1443 (17.22%) | 1477 (19.98%) | 1231* |
| TAL 1340 (14.44%) 1437 (22.3%) 1435 (22.13%) 1461 (19.61%) 1485 (12.3%) 1244 (19.61%) 1486 (12.12%) 1498 (13.73%) 1431 (14.14%) 1461 (16.94%) 1486 (12.14%) 1224 (14.78%) 1234 (14.14%) 1471 (16.61%) 1482 (21.14%) 1244 (16.61%) 1482 (21.14%) 1485 (12.24%) 1485 (12.25%) 1485 (12.14%) 1485 (12.14%) 1485 (12.25%) 1485 (12.25%) 1485 (12.14%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%) 1485 (12.25%)  |                     | TA2      | 1401 (12.62%) | 1429 (14.87%)  | 1437 (15.51%) | 1463 (17.6%)  | 1445 (16.16%) | 1244* |
| TAS 1390 (13.56%) 1409 (15.11%) 1431 (14.13%) 1441 (16.41%) 1421 (14.78%) 1238* TA7 1425 (16.14%) 1453 (18.42%) 1398 (13.94%) 1444 (16.41%) 1457 (14.78%) 1238* TA7 1471 (15.54%) 1453 (18.42%) 1398 (13.94%) 1441 (18.41%) 1457 (16.20%) 1277* TA8 1470 (15.54%) 1543 (21.11%) 1503 (17.97%) 1506 (22.43%) 1600 (23.59%) 1612 (21.78%) 1274* TA11 1602 (18.05%) 1671 (23.14%) 1653 (20.92%) 1652 (20.35%) 1649 (20.05%) 1367* TA12 1640 (17.34%) 1678 (22.57%) 1653 (20.92%) 1652 (20.35%) 1649 (20.05%) 1367* TA13 1612 (20.03%) 1691 (25.91%) 1603 (20.92%) 1652 (20.35%) 1649 (20.05%) 1639 (20.05%) 1652 (20.35%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649 (20.05%) 1649  |                     |          |               |                |               |               |               | 1218* |
| TA7   1425 (16.14%)   1453 (18.42%)   1498 (13.94%)   1465 (19.23%)   1441 (18.14)   1457 (19.72%)   1217 (18.54%)   1458 (19.38%)   1441 (18.14)   1457 (19.72%)   1217 (18.54%)   1457 (18.92%)   1441 (18.14)   1457 (19.72%)   1217 (18.04%)   1457 (18.92%)   1457 (18.92%)   1247 (18.92%)   1457 (18.92%)   1457 (18.92%)   1247 (18.92%)   1457 (18.92%)   1247 (18.92%)   1457 (18.92%)   1457 (18.92%)   1247 (18.92%)   1457 (18.92%)   1457 (18.92%)   1457 (18.92%)   1247 (18.92%)   1457 (18.92%)   1457 (18.92%)   1652 (20.85%)   1649 (20.65%)   1649 (23.85%)   1649 (20.65%)   1649 (23.85%)   1649 (20.65%)   1649 (23.85%)   1649 (20.65%)   1649 (23.85%)   1649 (20.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85 | 2                   |          |               |                |               |               |               |       |
| TA7   1425 (16.14%)   1453 (18.42%)   1498 (13.94%)   1465 (19.23%)   1441 (18.14)   1457 (19.72%)   1217 (18.54%)   1458 (19.38%)   1441 (18.14)   1457 (19.72%)   1217 (18.54%)   1457 (18.92%)   1441 (18.14)   1457 (19.72%)   1217 (18.04%)   1457 (18.92%)   1457 (18.92%)   1247 (18.92%)   1457 (18.92%)   1457 (18.92%)   1247 (18.92%)   1457 (18.92%)   1247 (18.92%)   1457 (18.92%)   1457 (18.92%)   1247 (18.92%)   1457 (18.92%)   1457 (18.92%)   1457 (18.92%)   1247 (18.92%)   1457 (18.92%)   1457 (18.92%)   1652 (20.85%)   1649 (20.65%)   1649 (23.85%)   1649 (20.65%)   1649 (23.85%)   1649 (20.65%)   1649 (23.85%)   1649 (20.65%)   1649 (23.85%)   1649 (20.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85%)   1649 (23.85 | $\overline{\times}$ |          |               |                |               |               |               |       |
| TAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15                  |          |               |                |               |               |               |       |
| TA10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |          |               |                |               |               |               |       |
| TA11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |          |               |                |               |               |               |       |
| TA12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |          |               |                |               |               |               |       |
| TA13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |          |               |                |               |               |               |       |
| TA14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |          |               |                |               |               |               |       |
| TA15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |          |               |                |               |               |               |       |
| TA17 1732 (1788%) 1800 (23.12%) 1790 (22.47%) 1824 (24.76%) 1837 (25.65%) 1462* TA19 1844 (18.92%) 1785 (27.87%) 1790 (23.85%) 1701 (27.7%) 1332* TA20 1856 (18.95%) 1632 (21.07%) 1677 (24.41%) 1614 (21.74%) 1659 (23.07%) 1332* TA21 1997 (18.57%) 1994 (18.7%) 1677 (24.41%) 1614 (21.74%) 1659 (23.07%) 1342* TA23 1856 (19.2%) 1994 (18.7%) 1997 (19.06%) 1938 (21.22%) 1995 (21.07%) 1938 (20.92%) 1998 (19.06%) 1938 (21.22%) 1995 (24.85%) 1997 (20.08%) 1997 (20.08%) 1998 (19.05%) 1998 (21.27%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%)  | 15                  |          |               |                |               |               |               |       |
| TA17 1732 (1788%) 1800 (23.12%) 1790 (22.47%) 1824 (24.76%) 1837 (25.65%) 1462* TA19 1844 (18.92%) 1785 (27.87%) 1790 (23.85%) 1701 (27.7%) 1332* TA20 1856 (18.95%) 1632 (21.07%) 1677 (24.41%) 1614 (21.74%) 1659 (23.07%) 1332* TA21 1997 (18.57%) 1994 (18.7%) 1677 (24.41%) 1614 (21.74%) 1659 (23.07%) 1342* TA23 1856 (19.2%) 1994 (18.7%) 1997 (19.06%) 1938 (21.22%) 1995 (21.07%) 1938 (20.92%) 1998 (19.06%) 1938 (21.22%) 1995 (24.85%) 1997 (20.08%) 1997 (20.08%) 1998 (19.05%) 1998 (21.27%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%) 1998 (19.17%) 1998 (20.99%)  | ×                   |          |               |                |               |               |               |       |
| TA19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7                   |          |               |                |               |               |               |       |
| TA20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     | TA18     | 1709 (22.42%) | 1785 (27.87%)  | 1730 (23.93%) | 1701 (21.85%) | 1723 (23.42%) | 1396* |
| TA21 1947 (18.57%) 1949 (18.7%) 1944 (18.39%) 1975 (20.28%) 2063 (25.64%) 1642* TA22 1896 (18.5%) 1894 (18.38%) 1997 (21.06%) 1938 (21.12%) 1950 (21.88%) 1609* TA23 1886 (19.2%) 1934 (24.12%) 1936 (22.22%) 1935 (24.28%) 1930 (21.38%) 1650* TA24 1928 (17.27%) 1998 (20.99%) 1958 (19.1%) 1984 (20.68%) 1999 (21.59%) 1644* TA25 1883 (18.06%) 1989 (24.74%) 2006 (25.77%) 2035 (27.59%) 2004 (31.29%) 1950 (21.88%) 1649* TA26 1885 (14.73%) 2005 (22.03%) 1971 (19.96%) 2015 (24.83%) 2006 (25.57%) 1643* TA27 1876 (18.14%) 1928 (20.27%) 1924 (20.02%) 2051 (24.83%) 2068 (25.87%) 1643* TA28 1850 (15.41%) 1928 (20.27%) 1924 (20.02%) 1939 (20.96%) 2000 (24.77%) 1603* TA28 1850 (15.41%) 1928 (20.27%) 1924 (20.02%) 1939 (20.96%) 2000 (24.77%) 1603* TA28 1850 (15.41%) 1928 (20.27%) 1940 (23.04%) 1956 (23.48%) 1956 (23.5%) 1854 (16.98%) 1958 (25.32%) 1949 (23.04%) 1956 (23.48%) 1955 (23.32%) 1584*  TA31 2148 (21.77%) 2227 (26.25%) 2191 (24.21%) 2263 (28.29%) 2295 (30.15%) 1764* TA32 2164 (21.3%) 2304 (29.15%) 2334 (33.072%) 2301 (28.98%) 2305 (29.2%) 1784* TA33 2260 (26.19%) 2278 (24.62%) 2258 (25.25%) 2317 (26.75%) 2297 (25.75%) 2304 (20.04%) 1956 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.48%) 1950 (23.4 |                     | TA19     | 1544 (15.92%) | 1615 (21.25%)  | 1649 (23.8%)  | 1674 (25.68%) | 1701 (27.7%)  | 1332* |
| TA22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     | TA20     | 1555 (15.36%) | 1632 (21.07%)  | 1677 (24.41%) | 1641 (21.74%) | 1659 (23.07%) | 1348* |
| EA         1 7243         1856 (19.2%)         1934 (24.2%)         1903 (22.22%)         1923 (17.27%)         1989 (29.9%)         1958 (19.1%)         1984 (20.68%)         1999 (21.5%)         1557           TA25         1883 (14.37%)         2005 (25.7%)         2005 (25.77%)         2004 (31.2%)         1595*           TA26         1883 (14.37%)         2005 (25.37%)         1917 (19.43%)         2006 (22.93%)         1917 (19.9%)         2015 (23.3%)         2006 (22.93%)         2017 (19.43%)         2006 (22.93%)         2009 (23.63%)         2009 (23.63%)         2009 (23.63%)         2009 (23.63%)         2009 (23.63%)         2009 (23.63%)         2009 (23.63%)         2009 (23.63%)         2009 (23.63%)         2009 (23.63%)         2000 (23.63%)         2009 (23.63%)         2009 (23.63%)         2009 (23.63%)         2009 (23.63%)         2009 (23.63%)         1985 (23.48%)         1985 (23.48%)         1985 (23.48%)         1985 (23.48%)         1985 (23.48%)         1985 (23.48%)         1985 (23.48%)         1985 (23.48%)         1985 (23.48%)         1985 (23.48%)         1985 (23.48%)         1985 (23.48%)         1985 (23.48%)         1985 (23.48%)         1985 (23.48%)         1985 (23.48%)         2036 (29.29%)         1784           TA31         2148 (21.38%)         2234 (24.68%)         2238 (23.52%)         2331 (23.63%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |          |               |                |               |               |               |       |
| TA24 1928 (17.27%) 1989 (20.99%) 1958 (19.19%) 1984 (20.68%) 1999 (21.59%) 1694 (31.29%) 1595* 1595* 17426 1885 (18.60%) 1998 (21.07%) 2006 (25.77%) 2006 (25.77%) 2006 (25.77%) 2006 (25.77%) 2006 (22.98%) 2016 (24.83%) 2068 (25.87%) 1643* 17428 1850 (15.41%) 19928 (20.27%) 1994 (20.02%) 1939 (20.96%) 2000 (24.77%) 1603* 17428 1850 (16.68%) 1933 (18.34%) 1926 (18.32%) 2008 (23.63%) 2008 (27.27%) 1625* 17430 1853 (16.98%) 1985 (25.32%) 1949 (23.04%) 1956 (23.48%) 1985 (25.32%) 1854* 17433 2260 (26.19%) 2236 (31.83%) 2394 (33.67%) 2410 (34.56%) 2336 (33.05%) 1791* 17433 2260 (26.19%) 2361 (31.83%) 2394 (33.67%) 2410 (34.56%) 2383 (33.05%) 1791* 17433 2260 (26.19%) 2326 (31.83%) 2394 (33.67%) 2410 (34.56%) 2383 (33.05%) 1791* 17435 2299 (10.06%) 2379 (18.54%) 2353 (17.24%) 2352 (27.87%) 2318 (20.20%) 2327 (27.97%) 1818* 17435 2299 (10.06%) 2379 (18.54%) 2353 (17.24%) 2352 (27.87%) 2318 (20.20%) 2307 (20.20%) 1819* 17439 2190 (20.01%) 2243 (24.96%) 2256 (25.04%) 2226 (24.01%) 2370 (20.56%) 1625* 17439 2190 (20.01%) 2243 (24.96%) 2227 (24.07%) 2226 (24.01%) 2394 (25.01%) 1639* 17440 2017 (20.85%) 2056 (23.73%) 2089 (25.16%) 2084 (24.87%) 2096 (25.77%) 1639* 17442 2295 (18.48%) 2461 (27.05%) 2299 (25.17%) 1639* 17444 2334 (17.94%) 2461 (27.05%) 2499 (29.01%) 2465 (27.26%) 2534 (30.82%) 1937* 17442 2295 (18.48%) 2461 (27.05%) 2499 (29.01%) 2465 (27.26%) 2534 (30.82%) 1937* 17448 2380 (19.03.44%) 2400 (30.01%) 2466 (33.48%) 2461 (27.05%) 2499 (29.01%) 2465 (27.26%) 2534 (30.82%) 1937* 17449 2410 (23.05%) 2354 (30.48%) 2400 (30.01%) 2466 (33.48%) 2461 (27.05%) 2499 (29.01%) 2465 (27.26%) 2534 (30.82%) 1937* 17449 2410 (23.05%) 2354 (30.36%) 2506 (23.15%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25.45%) 2460 (25. |                     |          |               |                |               |               |               |       |
| TA25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | _                   |          |               |                |               |               |               |       |
| TA27 1987 (18.27%) 2049 (21.96%) 2066 (22.98%) 2076 (23.57%) 2146 (27.74%) 1689* TA29 1896 (16.68%) 1923 (18.34%) 1926 (18.52%) 2009 (23.63%) 2068 (27.26%) 1625* TA30 1833 (16.98%) 1985 (25.32%) 1999 (23.04%) 1956 (23.48%) 1985 (25.32%) 1584*  TA31 2148 (21.77%) 2227 (26.25%) 2191 (24.21%) 2263 (28.29%) 2995 (30.1%) 1764* TA32 2164 (21.3%) 2304 (29.15%) 2332 (30.72%) 2301 (28.98%) 2305 (29.2%) 1784* TA33 2260 (26.19%) 2361 (31.83%) 2394 (33.67%) 2410 (34.56%) 2393 (33.07%) 1791* TA34 2169 (18.65%) 2278 (24.62%) 2258 (23.52%) 2317 (26.75%) 2299 (25.77%) 1828* TA35 2299 (10.06%) 2379 (18.54%) 2353 (17.24%) 2339 (19.03%) 2314 (16.64%) 2007* TA37 2157 (21.87%) 2256 (27.87%) 2318 (27.43%) 2326 (27.97%) 18128* TA35 2199 (20.04%) 2326 (27.87%) 2318 (27.43%) 2326 (27.95%) 1819* TA38 2026 (21.1%) 2070 (23.73%) 2092 (25.04%) 2108 (26.0%) 2925 (23.2%) 1673* TA39 2190 (22.01) 2234 (26.96%) 227 (24.07%) 2225 (24.01%) 2270 (26.46%) 1771* TA38 2026 (21.1%) 2070 (23.73%) 2089 (25.16%) 2084 (24.87%) 2098 (25.7%) 1669* TA41 2499 (24.64%) 2611 (30.22%) 2572 (28.28%) 2595 (29.43%) 2604 (29.85%) 2005* TA43 2260 (22.43%) 2408 (30.44%) 2400 (30.01%) 2464 (33.48%) 2445 (24.5%) 1937* TA44 2334 (17.94%) 2601 (31.43%) 261 (31.99%) 2616 (32.19%) 2534 (30.82%) 1937* TA44 2334 (17.94%) 2601 (31.43%) 261 (31.99%) 2616 (32.19%) 2534 (30.82%) 1937* TA45 2432 (21.66%) 2558 (27.9%) 2524 (26.2%) 2556 (26.32)% 2554 (30.85%) 1937* TA45 2432 (21.66%) 2558 (27.9%) 2524 (26.2%) 2556 (32.19%) 2524 (26.2%) 2556 (32.19%) 2524 (31.85%) 2468 (30.65%) 1937* TA48 2889 (23.34%) 2555 (31.75%) 2522 (30.2%) 2488 (28.45%) 2496 (22.88%) 1937* TA49 2413 (23.05%) 2464 (23.45%) 3410 (26.45%) 3434 (28.85%) 3456 (21.95%) 3350 (20.44%) 3476 (26.45%) 3551 (26.65%) 3626 (21.19%) 3352 (26.25%) 3488 (28.45%) 3496 (23.81%) 1937* TA45 2432 (21.66%) 2558 (27.9%) 3430 (26.44%) 3401 (26.45%) 3456 (26.45%) 3551 (26.65%) 3626 (21.19%) 3352 (26.25%) 3488 (28.85%) 3496 (23.81%) 1937* TA48 2889 (23.34%) 2555 (31.75%) 2522 (30.25%) 3439 (26.64%) 3351 (26.65%) 3436 (30.65%) 3456 (31.15 | <26                 |          |               |                |               |               |               |       |
| TA27 1987 (18.27%) 2049 (21.96%) 2066 (22.98%) 2076 (23.57%) 2146 (27.74%) 1689* TA29 1896 (16.68%) 1923 (18.34%) 1926 (18.52%) 2009 (23.63%) 2068 (27.26%) 1625* TA30 1833 (16.98%) 1985 (25.32%) 1999 (23.04%) 1956 (23.48%) 1985 (25.32%) 1584*  TA31 2148 (21.77%) 2227 (26.25%) 2191 (24.21%) 2263 (28.29%) 2995 (30.1%) 1764* TA32 2164 (21.3%) 2304 (29.15%) 2332 (30.72%) 2301 (28.98%) 2305 (29.2%) 1784* TA33 2260 (26.19%) 2361 (31.83%) 2394 (33.67%) 2410 (34.56%) 2393 (33.07%) 1791* TA34 2169 (18.65%) 2278 (24.62%) 2258 (23.52%) 2317 (26.75%) 2299 (25.77%) 1828* TA35 2299 (10.06%) 2379 (18.54%) 2353 (17.24%) 2339 (19.03%) 2314 (16.64%) 2007* TA37 2157 (21.87%) 2256 (27.87%) 2318 (27.43%) 2326 (27.97%) 18128* TA35 2199 (20.04%) 2326 (27.87%) 2318 (27.43%) 2326 (27.95%) 1819* TA38 2026 (21.1%) 2070 (23.73%) 2092 (25.04%) 2108 (26.0%) 2925 (23.2%) 1673* TA39 2190 (22.01) 2234 (26.96%) 227 (24.07%) 2225 (24.01%) 2270 (26.46%) 1771* TA38 2026 (21.1%) 2070 (23.73%) 2089 (25.16%) 2084 (24.87%) 2098 (25.7%) 1669* TA41 2499 (24.64%) 2611 (30.22%) 2572 (28.28%) 2595 (29.43%) 2604 (29.85%) 2005* TA43 2260 (22.43%) 2408 (30.44%) 2400 (30.01%) 2464 (33.48%) 2445 (24.5%) 1937* TA44 2334 (17.94%) 2601 (31.43%) 261 (31.99%) 2616 (32.19%) 2534 (30.82%) 1937* TA44 2334 (17.94%) 2601 (31.43%) 261 (31.99%) 2616 (32.19%) 2534 (30.82%) 1937* TA45 2432 (21.66%) 2558 (27.9%) 2524 (26.2%) 2556 (26.32)% 2554 (30.85%) 1937* TA45 2432 (21.66%) 2558 (27.9%) 2524 (26.2%) 2556 (32.19%) 2524 (26.2%) 2556 (32.19%) 2524 (31.85%) 2468 (30.65%) 1937* TA48 2889 (23.34%) 2555 (31.75%) 2522 (30.2%) 2488 (28.45%) 2496 (22.88%) 1937* TA49 2413 (23.05%) 2464 (23.45%) 3410 (26.45%) 3434 (28.85%) 3456 (21.95%) 3350 (20.44%) 3476 (26.45%) 3551 (26.65%) 3626 (21.19%) 3352 (26.25%) 3488 (28.45%) 3496 (23.81%) 1937* TA45 2432 (21.66%) 2558 (27.9%) 3430 (26.44%) 3401 (26.45%) 3456 (26.45%) 3551 (26.65%) 3626 (21.19%) 3352 (26.25%) 3488 (28.85%) 3496 (23.81%) 1937* TA48 2889 (23.34%) 2555 (31.75%) 2522 (30.25%) 3439 (26.64%) 3351 (26.65%) 3436 (30.65%) 3456 (31.15 | ŝ                   |          |               |                |               |               |               |       |
| TA29 1896 (16.68%) 1923 (18.34%) 1926 (18.52%) 2009 (23.63%) 2008 (27.26%) 1625 (15.84%) 1855 (16.98%) 1985 (25.32%) 1949 (23.04%) 1956 (23.48%) 1985 (25.32%) 1584*  TA31 2148 (21.77%) 2227 (26.25%) 2191 (24.21%) 2263 (28.99%) 2295 (30.1%) 1764* TA32 2164 (21.3%) 2304 (29.15%) 2332 (30.72%) 2301 (28.99%) 2305 (29.2%) 1784* TA33 2260 (26.19%) 2361 (31.83%) 2394 (33.67%) 2310 (26.59%) 2383 (33.05%) 1791* TA34 2169 (18.65%) 2278 (24.62%) 2258 (23.52%) 2317 (26.75%) 2299 (25.77%) 1828* TA35 2290 (10.06%) 2379 (18.54%) 2353 (17.24%) 2399 (19.07%) 2299 (25.77%) 1828* TA36 2190 (20.44%) 2326 (27.87%) 2318 (27.43%) 2326 (27.87%) 2227 (27.93%) 1811* TA38 2026 (21.11%) 2070 (23.73%) 2009 (25.16%) 2329 (31.51%) 2349 (32.64%) 1719* TA39 2190 (22.01%) 2243 (24.96%) 2227 (24.07%) 2226 (24.01%) 2270 (26.46%) 1719* TA44 2017 (20.85%) 2065 (23.73%) 2089 (25.16%) 2284 (24.87%) 2089 (25.77%) 1669* TA44 2295 (18.48%) 2461 (27.05%) 2499 (29.01%) 2465 (27.26%) 2534 (30.82%) 1937* TA44 2234 (17.94%) 2601 (31.47%) 2612 (31.99%) 2616 (21.19%) 2671 (34.97%) 1937* TA45 2260 (22.43%) 2408 (30.44%) 2400 (30.01%) 2465 (27.26%) 2534 (30.82%) 1937* TA46 2501 (24.68%) 2635 (31.36%) 2574 (28.32%) 2635 (31.36%) 2495 (23.24%) 2552 (31.75%) 2508 (26.75%) 2466 (22.19%) 2571 (34.97%) 1978* TA45 2452 (21.05%) 2552 (31.75%) 2522 (30.75%) 2488 (28.45%) 2495 (23.28%) 1937* TA46 2501 (24.68%) 2635 (31.36%) 2574 (28.32%) 2434 (28.85%) 2465 (27.26%) 2534 (30.85%) 1937* TA45 2452 (17.95%) 3345 (18.47%) 3475 (26.05%) 3470 (24.46%) 3495 (27.28%) 1961* TA45 2381 (17.35%) 2352 (31.75%) 2522 (30.75%) 2488 (28.45%) 2495 (25.28%) 2595 (25.65%) 2552 (26.55%) 2552 (26.25%) 2552 (31.55%) 2552 (31.75%) 2508 (30.42%) 3431 (17.45%) 3431 (10.95%) 3344 (18.45%) 3330 (14.47%) 3341 (18.45%) 3333 (15.25%) 3346 (12.95%) 3344 (18.45%) 3334 (17.45%) 3341 (17.45%) 3455 (26.75%) 3460 (25.45%) 3444 (18.45%) 3331 (16.75%) 3495 (25.75%) 3466 (26.95%) 3466 (26.95%) 3466 (26.95%) 3466 (26.95%) 3466 (26.95%) 3466 (26.95%) 3466 (26.95%) 3466 (26.95%) 3466 (26.95%) 3466 (26.95%) 3466 (26 | (4                  | TA27     |               |                | 2066 (22.98%) | 2076 (23.57%) |               | 1680* |
| TA30 1853 (16.98%) 1985 (25.32%) 1949 (23.04%) 1956 (23.48%) 1995 (25.32%) 1584*  TA31 2148 (21.77%) 2227 (26.25%) 2191 (24.21%) 2263 (28.29%) 2295 (30.11%) 1764* TA33 2260 (26.19%) 2361 (31.83%) 2394 (33.07%) 2410 (34.56%) 2338 (33.05%) 1791* TA34 2169 (18.65%) 2278 (24.62%) 2258 (23.52%) 2410 (34.56%) 2338 (33.05%) 1791* TA35 2209 (10.06%) 2379 (18.54%) 2353 (17.24%) 2389 (19.03%) 2294 (16.64%) 2007* TA36 2190 (20.44%) 2326 (27.87%) 2318 (27.34%) 2396 (27.87%) 2321 (16.64%) 2007* TA37 2157 (21.8%) 2265 (27.89%) 2308 (30.23%) 2326 (27.87%) 2321 (16.64%) 2007* TA38 2026 (21.1%) 2070 (23.73%) 2092 (25.04%) 2108 (26.0%) 2095 (25.22%) 1673* TA39 2190 (22.01%) 2243 (24.96%) 2227 (24.07%) 2226 (24.01%) 2270 (26.46%) 1795* TA40 2017 (20.85%) 2065 (23.73%) 2089 (25.16%) 2884 (24.87%) 2098 (25.7%) 1609* TA44 2299 (34.44%) 2611 (30.22%) 2572 (28.28%) 2595 (29.43%) 2604 (29.88%) 2605* TA44 2334 (17.94%) 2601 (30.25%) 2572 (28.28%) 2616 (32.19%) 2443 (32.45%) 1876* TA44 2334 (17.94%) 2601 (31.43%) 2612 (31.99%) 2616 (32.19%) 2671 (34.79%) 1937* TA45 2432 (21.6%) 2558 (27.9%) 2524 (26.5%) 2526 (26.33%) 2552 (27.6%) 2006* TA46 2501 (24.68%) 2635 (31.36%) 2574 (28.32%) 2488 (28.45%) 2661 (30.36%) 2671 (34.79%) 2777 (25.83%) 2382 (26.1%) 2434 (28.85%) 2466 (30.55%) 1897* TA45 2432 (21.6%) 2558 (27.9%) 2466 (25.75%) 2460 (25.45%) 2482 (23.81%) 2496 (27.28%) 1961* TA45 2334 (17.94%) 2601 (31.35%) 2616 (31.99%) 2615 (30.19%) 2615 (30.19%) 2615 (30.39%) 27.056%) 2572 (30.56%) 2488 (28.45%) 2496 (27.28%) 1961* TA45 2334 (17.34%) 3333 (15.25.45%) 3430 (24.46%) 3417 (23.98%) 3432 (16.55%) 2598 (34.4%) 3333 (17.44%) 3334 (17.44%) 3334 (17.44%) 3331 (10.29%) 3332 (15.28%) 3438 (16.85%) 3164 (16.45%) 2717* TA55 3324 (16.28%) 3353 (15.28%) 3358 (26.19%) 3302 (24.46%) 3310 (16.59%) 2339 (24.78%) 3314 (19.17%) 3422 (15.65%) 2676 (33.114.49%) 3314 (19.17%) 3432 (13.28%) 3333 (15.28%) 3333 (15.28%) 3333 (15.28%) 3333 (15.28%) 3333 (16.29%) 3333 (16.29%) 3331 (16.16.9%) 3331 (16.16.9%) 3331 (16.16.9%) 3331 (16.16.9%) 3331 (16.14.9%) 3331 (16 |                     |          |               |                |               |               |               |       |
| TA31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |          |               |                |               |               |               |       |
| TA32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |          |               |                |               |               |               |       |
| TA33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |          |               |                |               |               |               |       |
| TA34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |          |               |                |               |               |               |       |
| TA37 2157 (21.8%) 2265 (27.89%) 2308 (30.32%) 2329 (31.5%) 2349 (32.64%) 1771*  TA39 2190 (22.01%) 2070 (23.73%) 2092 (25.04%) 2108 (26.09%) 2095 (25.22%) 1673*  TA40 2017 (20.85%) 2065 (23.73%) 2089 (25.16%) 2084 (24.87%) 2098 (25.72%) 1669*  TA41 2499 (24.64%) 2611 (30.22%) 2572 (28.28%) 2595 (29.43%) 2604 (29.88%) 2005*  TA42 2295 (18.48%) 2461 (27.05%) 2499 (29.01%) 2465 (27.26%) 2534 (30.82%) 1937*  TA43 2260 (22.43%) 2408 (30.44%) 2400 (30.01%) 2464 (33.48%) 2445 (32.497%) 1846*  TA44 2334 (17.94%) 2601 (31.43%) 2612 (31.99%) 2616 (32.19%) 2671 (34.97%) 1979*  TA44 2334 (17.94%) 2601 (31.43%) 2574 (28.32%) 2552 (26.3%) 2552 (27.60%) 2000*  TA45 2432 (21.6%) 2558 (27.9%) 2524 (26.2%) 2526 (26.3%) 2552 (27.60%) 2000*  TA46 2501 (24.68%) 2635 (31.36%) 2574 (28.32%) 2635 (31.36%) 2615 (30.36%) 2006*  TA47 2258 (19.53%) 2377 (25.83%) 2382 (26.1%) 2434 (28.85%) 2468 (30.65%) 1889*  TA49 2413 (23.05%) 2466 (25.75%) 2522 (30.2%) 2488 (28.45%) 2495 (28.81%) 1937*  TA50 2375 (23.5%) 2508 (30.42%) 2493 (29.64%) 2515 (30.79%) 2522 (31.15%) 1923*  TA51 3409 (23.51%) 3545 (28.44%) 3617 (31.05%) 3579 (29.67%) 3551 (28.66%) 2756*  TA53 3078 (13.29%) 3173 (16.78%) 3176 (16.89%) 3162 (16.38%) 3164 (16.45%) 2717*  TA53 3321 (13.29%) 3454 (17.36%) 3332 (19.38%) 3324 (11.69%) 3314 (19.17%) 2781*  TA55 3217 (20.08%) 3266 (21.91%) 3328 (22.55%) 3266 (21.91%) 3259 (21.65%) 2679*  TA55 3321 (12.3%) 3315 (19.2%) 3332 (19.34%) 3334 (17.44%) 3310 (16.59%) 2289 (21.65%) 2679*  TA55 3312 (12.3%) 3345 (17.95%) 3488 (18.52%) 3303 (24.41%) 3310 (10.59%) 2839*  TA56 3123 (11.3.3%) 3324 (15.22%) 3434 (17.44%) 3333 (17.44%) 3314 (19.00%) 3948*  TA59 3144 (18.42%) 3333 (25.54%) 3328 (22.95%) 3662 (21.91%) 3329 (22.09%) 3332 (21.65%) 2679*  TA66 3301 (11.49%) 3434 (18.09%) 3450 (14.94%) 3490 (18.51%) 3400 (14.18%) 3303 (24.41%) 3303 (24.41%) 3299 (22.09%) 3332 (23.28%) 2885*  TA69 3338 (17.18%) 3597 (27.33%) 3601 (27.47%) 3358 (26.69%) 3414 (19.00%) 3374 (12.49%) 2758*  TA66 3321 (11.44%) 3434 (26.02%) 3206 (17.74%) 3358 (24.94%) 3409 (19.59% | v                   | TA34     | 2169 (18.65%) |                |               |               | 2299 (25.77%) | 1828* |
| TA37 2157 (21.8%) 2265 (27.89%) 2308 (30.32%) 2329 (31.5%) 2349 (32.64%) 1771*  TA39 2190 (22.01%) 2070 (23.73%) 2092 (25.04%) 2108 (26.09%) 2095 (25.22%) 1673*  TA40 2017 (20.85%) 2065 (23.73%) 2089 (25.16%) 2084 (24.87%) 2098 (25.72%) 1669*  TA41 2499 (24.64%) 2611 (30.22%) 2572 (28.28%) 2595 (29.43%) 2604 (29.88%) 2005*  TA42 2295 (18.48%) 2461 (27.05%) 2499 (29.01%) 2465 (27.26%) 2534 (30.82%) 1937*  TA43 2260 (22.43%) 2408 (30.44%) 2400 (30.01%) 2464 (33.48%) 2445 (32.497%) 1846*  TA44 2334 (17.94%) 2601 (31.43%) 2612 (31.99%) 2616 (32.19%) 2671 (34.97%) 1979*  TA44 2334 (17.94%) 2601 (31.43%) 2574 (28.32%) 2552 (26.3%) 2552 (27.60%) 2000*  TA45 2432 (21.6%) 2558 (27.9%) 2524 (26.2%) 2526 (26.3%) 2552 (27.60%) 2000*  TA46 2501 (24.68%) 2635 (31.36%) 2574 (28.32%) 2635 (31.36%) 2615 (30.36%) 2006*  TA47 2258 (19.53%) 2377 (25.83%) 2382 (26.1%) 2434 (28.85%) 2468 (30.65%) 1889*  TA49 2413 (23.05%) 2466 (25.75%) 2522 (30.2%) 2488 (28.45%) 2495 (28.81%) 1937*  TA50 2375 (23.5%) 2508 (30.42%) 2493 (29.64%) 2515 (30.79%) 2522 (31.15%) 1923*  TA51 3409 (23.51%) 3545 (28.44%) 3617 (31.05%) 3579 (29.67%) 3551 (28.66%) 2756*  TA53 3078 (13.29%) 3173 (16.78%) 3176 (16.89%) 3162 (16.38%) 3164 (16.45%) 2717*  TA53 3321 (13.29%) 3454 (17.36%) 3332 (19.38%) 3324 (11.69%) 3314 (19.17%) 2781*  TA55 3217 (20.08%) 3266 (21.91%) 3328 (22.55%) 3266 (21.91%) 3259 (21.65%) 2679*  TA55 3321 (12.3%) 3315 (19.2%) 3332 (19.34%) 3334 (17.44%) 3310 (16.59%) 2289 (21.65%) 2679*  TA55 3312 (12.3%) 3345 (17.95%) 3488 (18.52%) 3303 (24.41%) 3310 (10.59%) 2839*  TA56 3123 (11.3.3%) 3324 (15.22%) 3434 (17.44%) 3333 (17.44%) 3314 (19.00%) 3948*  TA59 3144 (18.42%) 3333 (25.54%) 3328 (22.95%) 3662 (21.91%) 3329 (22.09%) 3332 (21.65%) 2679*  TA66 3301 (11.49%) 3434 (18.09%) 3450 (14.94%) 3490 (18.51%) 3400 (14.18%) 3303 (24.41%) 3303 (24.41%) 3299 (22.09%) 3332 (23.28%) 2885*  TA69 3338 (17.18%) 3597 (27.33%) 3601 (27.47%) 3358 (26.69%) 3414 (19.00%) 3374 (12.49%) 2758*  TA66 3321 (11.44%) 3434 (26.02%) 3206 (17.74%) 3358 (24.94%) 3409 (19.59% | × ::                | TA35     | 2209 (10.06%) | 2379 (18.54%)  | 2353 (17.24%) | 2389 (19.03%) | 2341 (16.64%) | 2007* |
| TA38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 300                 |          |               |                |               |               |               |       |
| TA49 2190 (22.01%) 2243 (24.96%) 2227 (24.07%) 2226 (24.01%) 2270 (26.46%) 1795* TA40 2017 (20.85%) 2065 (23.73%) 2089 (25.16%) 2084 (24.87%) 2098 (25.76%) 1669*  TA41 2499 (24.64%) 2611 (30.22%) 2572 (28.28%) 2595 (29.43%) 2604 (29.88%) 2005* TA42 2295 (18.48%) 2461 (27.05%) 2499 (29.01%) 2465 (27.26%) 2534 (30.82%) 1937* TA43 2260 (22.43%) 2408 (30.44%) 2400 (30.01%) 2464 (33.48%) 2445 (32.497) [1979* TA44 2334 (17.94%) 2601 (31.43%) 2612 (31.99%) 2616 (32.19%) 2671 (34.97%) 1979* TA45 2432 (21.66%) 2558 (27.9%) 2524 (26.2%) 2526 (26.3%) 2552 (27.67) 2000* TA46 2501 (24.68%) 2635 (31.36%) 2574 (28.32%) 2635 (31.36%) 2615 (30.36%) 2006* TA47 2258 (19.53%) 2377 (25.83%) 2382 (26.1%) 2434 (28.85%) 2468 (30.65%) 1889* TA49 2413 (23.05%) 2466 (25.75%) 2522 (30.2%) 2488 (28.45%) 2495 (28.18%) 1937* TA50 2375 (23.5%) 2508 (30.42%) 2493 (29.64%) 2515 (30.79%) 2522 (31.15%) 1961* TA51 344 (17.44%) 3475 (26.09%) 3430 (24.46%) 3417 (23.98%) 3428 (24.38%) 2756* TA53 3078 (13.29%) 3362 (18.42%) 3333 (17.44%) 3334 (17.44%) 3310 (16.59%) 2839* TA55 3121 (20.08%) 3266 (21.91%) 3328 (22.55%) 3266 (21.91%) 3284 (18.09%) 3314 (19.17%) 2781* TA55 3131 (10.29%) 3362 (18.42%) 3333 (17.44%) 3333 (14.18,9%) 3259 (21.65%) 2679* TA53 3324 (15.22%) 3438 (19.17%) 3447 (19.48%) 3419 (18.51%) 3259 (21.65%) 2679* TA55 3121 (20.08%) 3266 (21.91%) 3328 (22.55%) 3266 (21.91%) 3330 (24.41%) 3330 (24.41%) 330 (42.41%) 26.55* TA56 3301 (14.14%) 3434 (18.29%) 3333 (19.54%) 3419 (18.51%) 3433 (14.19.96%) 28839* TA59 3144 (18.42%) 3333 (25.54%) 3488 (18.57%) 3162 (16.28%) 3314 (19.17%) 2781* TA61 3357 (17.05%) 3492 (21.76%) 3525 (22.91%) 3628 (26.5%) 3622 (26.29%) 2868* TA59 3144 (18.42%) 3333 (25.54%) 3360 (19.34%) 3303 (24.41%) 3303 (24.41%) 300 (12.44%) 3450 (12.98%) 379 (29.64%) 3259 (20.99%) 3303 (24.41%) 300 (12.47%) 347 (19.48%) 349 (18.51%) 360 (12.77%) 3612 (16.12%) 360 (17.74%) 3251 (18.07%) 3162 (16.12%) 3303 (24.41%) 300 (17.74%) 3251 (18.07%) 3162 (16.12%) 300 (17.75%) 2723*  TA61 3351 (11.49%) 3434 (26.02%) 3496 (26.59%) 3436 (26.59%) |                     |          |               |                |               |               |               |       |
| TA40 2017 (20.85%) 2065 (23.73%) 2089 (25.16%) 2084 (24.87%) 2098 (25.7%) 1669*  TA41 2499 (24.64%) 2611 (30.22%) 2572 (28.28%) 2595 (29.43%) 2604 (22.98%) 2005* TA42 2295 (18.48%) 2408 (30.44%) 2400 (30.01%) 2465 (27.26%) 2534 (30.82%) 1937* TA43 2260 (22.43%) 2408 (30.44%) 2400 (30.01%) 2464 (33.48%) 2445 (32.45%) 1846* TA44 2334 (17.94%) 2601 (31.43%) 2512 (31.99%) 2616 (32.19%) 2671 (34.97%) 1979* TA45 2432 (21.6%) 2558 (27.9%) 2524 (26.2%) 2526 (26.3%) 2552 (27.6%) 2000* TA46 2501 (24.68%) 2635 (31.36%) 2574 (28.32%) 2635 (31.36%) 2552 (27.6%) 2000* TA47 2258 (19.53%) 2377 (25.83%) 2382 (26.1%) 2434 (28.85%) 2468 (30.65%) 1889* TA48 2389 (23.34%) 2552 (31.75%) 2522 (30.29%) 2488 (28.45%) 2495 (28.81%) 1937* TA49 2413 (23.05%) 2466 (25.75%) 2460 (25.45%) 2428 (23.81%) 2495 (28.81%) 1937* TA49 2413 (23.05%) 2466 (25.75%) 2460 (25.45%) 2428 (23.81%) 2495 (27.28%) 1961* TA50 2375 (23.5%) 2508 (30.42%) 2493 (29.64%) 2515 (30.79%) 2522 (31.15%) 1923*  TA51 3409 (23.51%) 3545 (28.44%) 3617 (31.05%) 3579 (29.67%) 3551 (28.66%) 2760* TA52 3245 (17.74%) 3475 (26.09%) 3430 (24.46%) 3417 (23.98%) 3428 (24.38%) 2756* TA53 33078 (13.29%) 3173 (16.78%) 3176 (16.89%) 3162 (16.38%) 3164 (16.65%) 2717* TA54 3131 (10.29%) 3362 (18.42%) 3334 (17.44%) 3334 (17.44%) 3319 (16.59%) 2839* TA55 3217 (20.08%) 3266 (21.91%) 3232 (21.93%) 3334 (11.94%) 3330 (24.46%) 3310 (21.65%) 2679* TA55 3121 (21.23%) 3315 (19.2%) 3320 (19.38%) 3284 (18.99%) 3319 (21.65%) 2679* TA55 3121 (21.35%) 3315 (19.2%) 3320 (19.38%) 3284 (18.99%) 3319 (21.05%) 2731* TA57 3332 (11.2.3%) 3315 (19.2%) 3320 (19.38%) 3284 (18.99%) 330 (24.41%) 3310 (10.59%) 2855* TA59 3144 (18.42%) 3333 (5.154%) 3447 (21.98%) 330 (24.41%) 3433 (19.17%) 2781* TA56 3121 (11.23%) 3315 (19.2%) 3320 (19.38%) 3284 (18.99%) 3330 (24.41%) 330 (24.41%) 300 (24.41%) 330 (24.41%) 300 (24.41%) 330 (24.41%) 330 (24.41%) 330 (24.41%) 330 (24.41%) 330 (24.41%) 330 (24.41%) 330 (24.41%) 330 (24.41%) 330 (24.41%) 330 (24.41%) 330 (24.41%) 330 (24.41%) 330 (24.41%) 330 (24.41%) 330 (24.41%) 330 (2 |                     |          |               |                |               |               |               |       |
| Q € X E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |          |               |                |               |               |               |       |
| TA43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     | TA41     | 2499 (24.64%) | 2611 (30.22%)  | 2572 (28.28%) | 2595 (29.43%) | 2604 (29.88%) | 2005* |
| E         TA44         2334 (17.94%)         2601 (31.43%)         2612 (31.99%)         2616 (32.19%)         2671 (34.97%)         1979*           E         TA45         2432 (21.6%)         2558 (27.9%)         2524 (26.2%)         2526 (26.3%)         2552 (27.6%)         2000*           TA47         2258 (19.53%)         2357 (25.83%)         2372 (25.83%)         2382 (26.1%)         2434 (28.85%)         2468 (30.65%)         1889*           TA49         2413 (23.05%)         2466 (25.75%)         2460 (25.45%)         2428 (23.81%)         2496 (27.28%)         1961*           TA50         2375 (23.5%)         2508 (30.42%)         2493 (29.64%)         2515 (30.79%)         2522 (31.15%)         1932*           TA51         3409 (23.51%)         3545 (28.44%)         3617 (31.05%)         3579 (29.67%)         351 (28.66%)         2766*           TA53         3078 (13.29%)         3173 (16.78%)         3176 (16.89%)         3162 (16.38%)         3428 (24.38%)         2756*           TA53         3317 (20.08%)         3266 (21.91%)         3283 (22.55%)         3266 (21.91%)         3283 (22.55%)         3266 (21.91%)         3229 (21.65%)         266 (21.91%)         3283 (22.55%)         3266 (21.91%)         3229 (21.65%)         266 (21.91%)         2825*         3230 (19.34%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     | TA42     |               | 2461 (27.05%)  | 2499 (29.01%) | 2465 (27.26%) | 2534 (30.82%) | 1937* |
| TA45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |          |               |                |               |               |               |       |
| TA47 2258 (19.53%) 2377 (25.83%) 2382 (26.1%) 2434 (28.85%) 2468 (30.65%) 1889* TA48 2389 (23.34%) 2552 (31.75%) 2522 (30.2%) 2488 (28.45%) 2495 (28.81%) 1937* TA49 2413 (23.05%) 2466 (25.75%) 2460 (25.45%) 2428 (23.81%) 2496 (27.28%) 1961* TA50 2375 (23.5%) 2508 (30.42%) 2493 (29.64%) 2515 (30.79%) 2522 (31.15%) 1923*  TA51 3409 (23.51%) 3545 (28.44%) 3617 (31.05%) 3579 (29.67%) 3551 (28.66%) 2760* TA52 3245 (17.74%) 3475 (26.09%) 3430 (24.46%) 3417 (23.98%) 3428 (24.38%) 2756* TA53 3078 (13.29%) 3173 (16.78%) 3176 (16.89%) 3162 (16.88%) 3164 (16.45%) 2717* TA54 3131 (10.29%) 3362 (18.42%) 3334 (17.44%) 3334 (17.44%) 3310 (16.59%) 2839* TA55 3217 (20.08%) 3266 (21.91%) 3283 (22.55%) 3266 (21.91%) 3259 (21.65%) 2679* TA56 3123 (12.34%) 3454 (17.36%) 3488 (18.52%) 3438 (18.99%) 3314 (19.17%) 2781* TA57 3332 (13.22%) 3458 (17.36%) 3488 (18.52%) 3438 (16.82%) 3504 (19.06%) 2943* TA58 3324 (15.22%) 3438 (19.17%) 3447 (19.48%) 3419 (18.51%) 3433 (18.99%) 2885* TA59 3144 (18.42%) 3333 (25.54%) 3316 (24.9%) 3303 (24.41%) 3303 (24.41%) 2655* TA60 3067 (12.63%) 3206 (17.74%) 3215 (18.07%) 3162 (16.12%) 3201 (17.55%) 2723*  TA61 3357 (17.05%) 3492 (21.76%) 3525 (22.91%) 3628 (26.5%) 3622 (26.29%) 2868* TA62 3381 (17.85%) 3586 (24.99%) 3596 (25.34%) 3643 (26.98%) 3315 (21.60%) 2869* TA63 3101 (11.13%) 3342 (21.31%) 3269 (18.66%) 3318 (20.44%) 3345 (21.42%) 2755* TA66 3272 (15.01%) 3447 (21.16%) 3468 (21.9%) 3474 (22.11%) 3505 (23.2%) 2845* TA67 3231 (14.37%) 3597 (27.33%) 3601 (27.47%) 3399 (24.73%) 3384 (24.18%) 2725* TA68 3101 (11.39%) 3241 (16.42%) 3306 (17.74%) 3399 (24.73%) 3384 (28.85%) 2825* TA68 3101 (11.39%) 3291 (10.75%) 3724 (24.34%) 3635 (21.37%) 3718 (24.14%) 2995* TA76 5630 (6.39%) 5982 (10.04%) 6451 (15.86%) 6406 (15.05%) 6417 (15.25%) 5568* TA77 5660 (7.89%) 5982 (10.04%) 6451 (15.26%) 5997 (11.95%) 5999 (10.36%) 5392* TA77 5865 (7.89%) 5982 (10.04%) 6178 (15.35%) 6101 (11.34%) 5999 (10.36%) 5394* TA79 5848 (9.15%) 6101 (13.87%) 6004 (12.73%) 6081 (13.49%) 5995 (11.89%) 5358*                                | 20                  |          |               |                |               |               |               |       |
| TA47 2258 (19.53%) 2377 (25.83%) 2382 (26.1%) 2434 (28.85%) 2468 (30.65%) 1889* TA48 2389 (23.34%) 2552 (31.75%) 2522 (30.2%) 2488 (28.45%) 2495 (28.81%) 1937* TA49 2413 (23.05%) 2466 (25.75%) 2460 (25.45%) 2428 (23.81%) 2496 (27.28%) 1961* TA50 2375 (23.5%) 2508 (30.42%) 2493 (29.64%) 2515 (30.79%) 2522 (31.15%) 1923*  TA51 3409 (23.51%) 3545 (28.44%) 3617 (31.05%) 3579 (29.67%) 3551 (28.66%) 2760* TA52 3245 (17.74%) 3475 (26.09%) 3430 (24.46%) 3417 (23.98%) 3428 (24.38%) 2756* TA53 3078 (13.29%) 3173 (16.78%) 3176 (16.89%) 3162 (16.88%) 3164 (16.45%) 2717* TA54 3131 (10.29%) 3362 (18.42%) 3334 (17.44%) 3334 (17.44%) 3310 (16.59%) 2839* TA55 3217 (20.08%) 3266 (21.91%) 3283 (22.55%) 3266 (21.91%) 3259 (21.65%) 2679* TA56 3123 (12.34%) 3454 (17.36%) 3488 (18.52%) 3438 (18.99%) 3314 (19.17%) 2781* TA57 3332 (13.22%) 3458 (17.36%) 3488 (18.52%) 3438 (16.82%) 3504 (19.06%) 2943* TA58 3324 (15.22%) 3438 (19.17%) 3447 (19.48%) 3419 (18.51%) 3433 (18.99%) 2885* TA59 3144 (18.42%) 3333 (25.54%) 3316 (24.9%) 3303 (24.41%) 3303 (24.41%) 2655* TA60 3067 (12.63%) 3206 (17.74%) 3215 (18.07%) 3162 (16.12%) 3201 (17.55%) 2723*  TA61 3357 (17.05%) 3492 (21.76%) 3525 (22.91%) 3628 (26.5%) 3622 (26.29%) 2868* TA62 3381 (17.85%) 3586 (24.99%) 3596 (25.34%) 3643 (26.98%) 3315 (21.60%) 2869* TA63 3101 (11.13%) 3342 (21.31%) 3269 (18.66%) 3318 (20.44%) 3345 (21.42%) 2755* TA66 3272 (15.01%) 3447 (21.16%) 3468 (21.9%) 3474 (22.11%) 3505 (23.2%) 2845* TA67 3231 (14.37%) 3597 (27.33%) 3601 (27.47%) 3399 (24.73%) 3384 (24.18%) 2725* TA68 3101 (11.39%) 3241 (16.42%) 3306 (17.74%) 3399 (24.73%) 3384 (28.85%) 2825* TA68 3101 (11.39%) 3291 (10.75%) 3724 (24.34%) 3635 (21.37%) 3718 (24.14%) 2995* TA76 5630 (6.39%) 5982 (10.04%) 6451 (15.86%) 6406 (15.05%) 6417 (15.25%) 5568* TA77 5660 (7.89%) 5982 (10.04%) 6451 (15.26%) 5997 (11.95%) 5999 (10.36%) 5392* TA77 5865 (7.89%) 5982 (10.04%) 6178 (15.35%) 6101 (11.34%) 5999 (10.36%) 5394* TA79 5848 (9.15%) 6101 (13.87%) 6004 (12.73%) 6081 (13.49%) 5995 (11.89%) 5358*                                | ×                   |          |               |                |               |               |               |       |
| TA48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 30                  |          |               |                |               |               |               |       |
| TA49 2413 (23.05%) 2466 (25.75%) 2460 (25.45%) 2428 (23.81%) 2496 (27.28%) 1961* TA50 2375 (23.5%) 2508 (30.42%) 2493 (29.64%) 2515 (30.79%) 2522 (31.15%) 1923*  TA51 3409 (23.51%) 3545 (28.44%) 3617 (31.05%) 3579 (29.67%) 3551 (28.66%) 2756* TA52 3245 (17.74%) 3475 (26.09%) 3430 (24.46%) 3417 (23.98%) 3428 (24.38%) 2756* TA53 3078 (13.29%) 3173 (16.78%) 3176 (16.89%) 3162 (16.38%) 3164 (16.45%) 2717* TA54 3131 (10.29%) 3266 (21.91%) 3283 (22.55%) 3266 (21.91%) 3310 (16.59%) 2839* TA55 3217 (20.08%) 3266 (21.91%) 3283 (22.55%) 3266 (21.91%) 3259 (21.65%) 2679* TA56 3123 (12.3%) 3315 (19.2%) 3320 (19.38%) 3284 (18.09%) 3314 (19.17%) 2781* TA57 3332 (13.22%) 3434 (17.24%) 3447 (19.48%) 3419 (18.51%) 3433 (18.99%) 2885* TA59 3144 (18.42%) 3333 (55.54%) 3316 (24.9%) 3303 (24.41%) 3303 (24.41%) 3303 (24.41%) 2655* TA60 3067 (12.63%) 3206 (17.74%) 3215 (18.07%) 3162 (16.12%) 3201 (17.55%) 2723*  TA61 3357 (17.05%) 3492 (21.76%) 3525 (22.91%) 3628 (26.5%) 3622 (26.29%) 2868* TA62 3381 (17.85%) 3386 (24.99%) 3596 (25.34%) 3643 (26.98%) 3615 (26.09%) 2869* TA63 3162 (14.77%) 3342 (21.31%) 3269 (18.66%) 3318 (20.44%) 3335 (22.42%) 2755* TA66 3272 (15.01%) 3447 (21.16%) 3468 (21.9%) 3399 (24.73%) 3384 (24.18%) 2725* TA67 3231 (14.37%) 3597 (27.33%) 3601 (27.47%) 3582 (26.8%) 3344 (21.19%) 2755* TA68 3101 (11.39%) 3241 (16.42%) 3306 (18.75%) 3314 (19.04%) 3374 (21.19%) 2784* TA67 3231 (14.37%) 3597 (27.33%) 3601 (27.47%) 3582 (26.8%) 3640 (28.85%) 2825* TA68 3101 (11.39%) 3241 (16.42%) 3306 (18.75%) 3314 (19.04%) 3374 (21.19%) 2784* TA69 3538 (15.21%) 3697 (27.43%) 3601 (27.47%) 3650 (13.5%) 6464 (16.84%) 5991 (11.77%) 5865 (7.89%) 5982 (10.04%) 6451 (15.86%) 6406 (15.05%) 6417 (15.25%) 5568* TA71 5990 (9.63%) 6297 (15.25%) 6239 (14.18%) 6372 (16.62%) 6384 (16.84%) 5464* TA72 5679 (9.61%) 5791 (11.77%) 5817 (12.28%) 5847 (12.85%) 5863 (13.16%) 5181* TA73 6144 (10.34%) 6397 (13.89%) 6451 (15.86%) 6406 (15.05%) 6417 (15.25%) 5568* TA74 5680 (6.39%) 5982 (10.04%) 6194 (10.44%) 6311 (17.0%) 6294 (16.69%) 5392* TA75 6125 (13.59 |                     |          |               |                |               |               |               |       |
| TA50 2375 (23.5%) 2508 (30.42%) 2493 (29.64%) 2515 (30.79%) 2522 (31.15%) 1923*  TA51 3409 (23.51%) 3545 (28.44%) 3617 (31.05%) 3579 (29.67%) 3551 (28.66%) 2760* TA52 3245 (17.74%) 3475 (26.09%) 3430 (24.46%) 3417 (23.98%) 3428 (24.38%) 2755* TA53 3078 (13.29%) 3173 (16.78%) 3176 (16.89%) 3162 (16.38%) 3164 (16.45%) 2717* TA54 3131 (10.29%) 3362 (18.42%) 3334 (17.44%) 3334 (17.44%) 3310 (16.59%) 2839* TA55 3217 (20.08%) 3266 (21.91%) 3283 (22.55%) 3266 (21.91%) 3259 (21.65%) 2679* TA56 3123 (12.3%) 3315 (19.2%) 3320 (19.38%) 3284 (18.09%) 3314 (19.17%) 2781* TA57 3332 (13.22%) 3454 (17.36%) 3488 (18.52%) 3438 (18.20%) 3314 (19.17%) 2781* TA58 3324 (15.22%) 3438 (19.17%) 3447 (19.48%) 3419 (18.51%) 3433 (18.99%) 2885* TA60 3067 (12.63%) 3206 (17.74%) 3215 (18.07%) 3162 (16.12%) 3201 (17.55%) 2723*  TA61 3357 (17.05%) 3492 (21.76%) 3525 (22.91%) 3628 (26.5%) 3622 (26.29%) 2868* TA62 3381 (17.85%) 3586 (24.99%) 3596 (25.34%) 3643 (26.98%) 3615 (26.0%) 2869* TA63 3162 (14.77%) 3342 (21.31%) 3269 (18.66%) 3318 (20.44%) 3345 (21.42%) 2755* TA66 3272 (15.01%) 3447 (21.16%) 3468 (21.9%) 3399 (24.73%) 3384 (24.18%) 2755* TA66 3272 (15.01%) 3447 (21.16%) 3468 (21.9%) 3474 (22.11%) 3505 (23.2%) 2865* TA66 3272 (15.01%) 3447 (21.16%) 3468 (21.9%) 3314 (19.04%) 3374 (21.19%) 3538 (15.21%) 3639 (18.5%) 3611 (11.39%) 3241 (16.42%) 3306 (18.75%) 3314 (19.04%) 3374 (21.11%) 3505 (23.2%) 2865* TA66 3272 (15.01%) 3639 (18.5%) 3621 (17.91%) 3670 (19.51%) 3645 (18.69%) 3071* TA70 3514 (17.33%) 3697 (23.44%) 3724 (24.34%) 3635 (21.37%) 3718 (24.14%) 2995*  TA71 5990 (9.63%) 6297 (15.25%) 6239 (14.18%) 6372 (16.62%) 6384 (16.84%) 5464* TA72 5679 (9.61%) 5791 (11.77%) 5817 (12.28%) 5847 (12.85%) 5863 (13.16%) 5181* TA73 6144 (10.34%) 6397 (14.89%) 6451 (15.86%) 6406 (15.05%) 6417 (15.25%) 5568* TA76 6033 (12.94%) 6140 (14.94%) 6178 (15.65%) 6150 (15.13%) 6112 (14.41%) 5342* TA75 6125 (13.59%) 6359 (17.93%) 6458 (19.77%) 6496 (20.47%) 6466 (19.92%) 5339* TA76 6033 (12.94%) 6140 (14.94%) 6178 (15.65%) 6101 (11.49%) 5995 (11.89%) 5358*   |                     |          |               |                |               |               |               |       |
| TA52 3245 (17.74%) 3475 (26.09%) 3430 (24.46%) 3417 (23.98%) 3428 (24.38%) 2756* TA53 3078 (13.29%) 3173 (16.78%) 3176 (16.89%) 3162 (16.38%) 3164 (16.45%) 2717* TA54 3131 (10.29%) 3362 (18.42%) 3334 (17.44%) 3334 (17.44%) 3310 (16.59%) 2839* TA55 3217 (20.08%) 3266 (21.91%) 3283 (22.55%) 3266 (21.91%) 3259 (21.65%) 2679* TA56 3123 (12.3%) 3315 (19.2%) 3320 (19.38%) 3284 (18.09%) 3314 (19.17%) 2781* TA57 3332 (13.22%) 3454 (17.36%) 3488 (18.52%) 3438 (16.82%) 3504 (19.06%) 2943* TA58 3324 (15.22%) 3438 (19.17%) 3447 (19.48%) 3419 (18.51%) 3433 (18.99%) 2885* TA59 3144 (18.42%) 3333 (25.54%) 3316 (24.9%) 3303 (24.41%) 3303 (24.41%) 2655* TA60 3067 (12.63%) 3206 (17.74%) 3215 (18.07%) 3162 (16.12%) 3201 (17.55%) 2723*  TA61 3357 (17.05%) 3492 (21.76%) 3525 (22.91%) 3628 (26.5%) 3615 (26.09%) 2868* TA62 3381 (17.85%) 3586 (24.99%) 3596 (25.34%) 3643 (26.98%) 3615 (26.09%) 2868* TA63 3162 (14.77%) 3342 (21.31%) 3269 (18.66%) 3318 (20.44%) 33345 (21.42%) 2755* TA64 3117 (15.36%) 3285 (21.58%) 3230 (19.54%) 3299 (22.09%) 3332 (23.32%) 2702* TA65 3301 (21.14%) 3434 (26.02%) 3398 (24.7%) 3399 (24.73%) 3384 (24.11%) 2755* TA66 3272 (15.01%) 3447 (21.16%) 3468 (21.9%) 3474 (22.11%) 3505 (23.2%) 2845* TA69 3538 (15.21%) 3639 (18.55%) 3601 (27.47%) 3582 (26.8%) 3640 (28.85%) 2825* TA69 3538 (15.21%) 3639 (18.55%) 3621 (17.91%) 3670 (19.51%) 3645 (18.69%) 3071* TA70 3514 (17.33%) 3697 (23.44%) 3724 (24.34%) 3635 (21.37%) 3718 (24.14%) 2995*  TA71 5990 (9.63%) 6297 (15.25%) 6239 (14.18%) 6372 (16.62%) 6384 (16.84%) 5464* TA72 5679 (9.61%) 5791 (11.77%) 5817 (12.28%) 5847 (12.85%) 5863 (13.16%) 5181* TA73 6144 (10.34%) 6397 (14.89%) 6451 (15.86%) 6406 (15.05%) 6417 (15.25%) 5568* TA76 6033 (12.94%) 6140 (14.94%) 6178 (15.65%) 6150 (15.13%) 6112 (14.41%) 3342* TA77 5686 (7.89%) 5982 (10.04%) 6040 (10.45%) 5990 (10.01%) 5999 (10.36%) 5436* TA76 6033 (12.94%) 6140 (14.94%) 6178 (15.65%) 6101 (15.13%) 6112 (14.41%) 5342* TA77 5885 (7.89%) 5982 (10.04%) 6040 (10.45%) 5990 (10.01%) 5999 (10.36%) 5436* TA79 5848 (9.15%) 6250 (15.87% |                     | TA50     |               |                |               | 2515 (30.79%) | 2522 (31.15%) | 1923* |
| TA53 3078 (13.29%) 3173 (16.78%) 3176 (16.89%) 3162 (16.38%) 3164 (16.45%) 2717* TA54 3131 (10.29%) 3362 (18.42%) 3334 (17.44%) 3334 (17.44%) 3320 (21.91%) 22839* TA55 3217 (20.08%) 3266 (21.91%) 3283 (22.55%) 3266 (21.91%) 3259 (21.65%) 2679* TA56 3123 (12.3%) 3315 (19.2%) 3320 (19.38%) 3284 (18.09%) 3314 (19.17%) 2781* TA57 3332 (13.22%) 3454 (17.36%) 3488 (18.52%) 3438 (16.82%) 3504 (19.06%) 2943* TA58 3324 (15.22%) 3438 (19.17%) 3447 (19.48%) 3419 (18.51%) 3433 (18.99%) 2885* TA59 3144 (18.42%) 3333 (25.54%) 3316 (24.9%) 3303 (24.41%) 3303 (24.41%) 2655* TA60 3067 (12.63%) 3206 (17.74%) 3215 (18.07%) 3162 (16.12%) 3201 (17.55%) 2723*  TA61 3357 (17.05%) 3492 (21.76%) 3525 (22.91%) 3628 (26.5%) 3622 (26.29%) 2868* TA62 3381 (17.85%) 3586 (24.99%) 3596 (25.34%) 3643 (26.98%) 3615 (26.09%) 2869* TA63 3162 (14.77%) 3342 (21.31%) 3269 (18.66%) 3318 (20.44%) 3345 (1.42%) 2755* TA64 3117 (15.36%) 3285 (21.58%) 3230 (19.54%) 3299 (22.09%) 3332 (23.32%) 2702* TA65 3301 (21.14%) 3434 (26.02%) 3398 (24.7%) 3399 (24.73%) 3384 (24.18%) 2755* TA66 3272 (15.01%) 3447 (21.16%) 3468 (21.9%) 3474 (22.11%) 3505 (23.2%) 2845* TA68 3101 (11.39%) 3241 (16.42%) 3306 (18.75%) 3314 (19.04%) 3374 (21.19%) 2784* TA69 3538 (15.21%) 3639 (18.5%) 3621 (17.91%) 3670 (19.51%) 3645 (18.69%) 3071* TA70 3514 (17.33%) 3697 (27.33%) 3601 (27.47%) 3582 (26.8%) 3640 (28.85%) 2825* TA73 6144 (10.34%) 6397 (13.25%) 6239 (14.18%) 6372 (16.62%) 6384 (16.84%) 5464* TA73 6144 (10.34%) 6397 (14.89%) 6451 (15.86%) 6406 (15.05%) 6417 (15.25%) 5568* TA74 5680 (6.39%) 5988 (12.16%) 5938 (11.22%) 5977 (11.95%) 6018 (12.72%) 5339* TA75 6125 (13.59%) 6359 (17.93%) 6458 (19.77%) 6496 (20.47%) 6466 (19.92%) 5392* TA76 6033 (12.94%) 6140 (14.94%) 6178 (15.65%) 6150 (15.13%) 6112 (14.41%) 5342* TA77 5865 (7.89%) 5982 (10.04%) 6004 (10.45%) 5980 (10.01%) 5999 (10.36%) 5436* TA79 5848 (9.15%) 6101 (13.87%) 6040 (12.73%) 6081 (13.49%) 5995 (11.89%) 5358*                                                                                                                   |                     |          |               |                |               |               |               |       |
| C N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |          |               |                |               |               |               |       |
| TA55 3217 (20.08%) 3266 (21.91%) 3283 (22.55%) 3266 (21.91%) 3259 (21.65%) 2679* TA56 3123 (12.3%) 3315 (19.2%) 3320 (19.38%) 3284 (18.09%) 3314 (19.17%) 2781* TA57 3332 (13.22%) 3454 (17.36%) 3488 (18.52%) 3438 (16.82%) 3504 (19.06%) 2943* TA58 3324 (15.22%) 3438 (19.17%) 3447 (19.48%) 3419 (18.51%) 3433 (18.99%) 2885* TA59 3144 (18.42%) 3333 (25.54%) 3316 (24.9%) 3303 (24.41%) 3303 (24.41%) 2655* TA60 3067 (12.63%) 3206 (17.74%) 3215 (18.07%) 3162 (16.12%) 3201 (17.55%) 2723*  TA61 3357 (17.05%) 3492 (21.76%) 3525 (22.91%) 3628 (26.5%) 3622 (26.29%) 2868* TA62 3381 (17.85%) 3586 (24.99%) 3596 (25.34%) 3643 (26.98%) 3615 (26.0%) 2869* TA63 3162 (14.77%) 3342 (21.31%) 3269 (18.66%) 3318 (20.44%) 3345 (21.42%) 2755* TA64 3117 (15.36%) 3285 (21.58%) 3230 (19.54%) 3299 (22.09%) 3332 (23.32%) 2702* TA65 3301 (21.14%) 3434 (26.02%) 3398 (24.7%) 3399 (24.73%) 3384 (24.18%) 2725* TA66 3272 (15.01%) 3447 (21.16%) 3468 (21.9%) 3474 (22.11%) 3505 (23.2%) 2845* TA67 3231 (14.37%) 3597 (27.33%) 3601 (27.47%) 3582 (26.8%) 3640 (28.85%) 2825* TA68 3101 (11.39%) 3241 (16.42%) 3306 (18.75%) 3314 (19.04%) 3374 (21.119%) 2784* TA69 3538 (15.21%) 3639 (18.55%) 3621 (17.91%) 3670 (21.37%) 3718 (24.14%) 2995*  TA71 5990 (9.63%) 6297 (15.25%) 6239 (14.18%) 6372 (16.62%) 6384 (16.84%) 5464* TA72 5679 (9.61%) 5791 (11.77%) 5817 (12.28%) 5847 (12.85%) 5863 (13.16%) 5181* TA73 6144 (10.34%) 6397 (14.89%) 6451 (15.86%) 6406 (15.05%) 6417 (15.25%) 5568* TA74 5680 (6.39%) 5988 (12.16%) 5938 (11.22%) 5977 (11.55%) 6018 (12.72%) 5339* TA75 6125 (13.59%) 6359 (17.93%) 6458 (19.77%) 6496 (20.47%) 6466 (19.92%) 5339* TA77 5865 (7.89%) 5982 (10.04%) 6004 (10.45%) 5998 (10.01%) 5999 (10.36%) 5436* TA79 5848 (9.15%) 6101 (13.87%) 6040 (12.73%) 6081 (13.49%) 5995 (11.89%) 5358*                                                                                                                                                                                                                                                                                     |                     |          |               |                |               |               |               |       |
| TAS7 TAS8 3322 (13.22%) 3434 (17.36%) 3448 (18.52%) 3438 (16.82%) 3504 (19.06%) 2943** TAS8 TAS9 3144 (18.42%) 3438 (19.17%) 3447 (19.48%) 3419 (18.51%) 3433 (18.99%) 2885* TAS9 TA60 3067 (12.63%) 3206 (17.74%) 3215 (18.07%) 3162 (16.12%) 3201 (17.55%) 2723*  TA61 3357 (17.05%) 3492 (21.76%) 3525 (22.91%) 3628 (26.5%) 3622 (26.29%) 2868* TA62 3381 (17.85%) 3586 (24.99%) 3596 (25.34%) 3643 (26.98%) 3615 (26.09%) 2869* TA63 3162 (14.77%) 3342 (21.31%) 3269 (18.66%) 3318 (20.44%) 3345 (21.42%) 2755* TA64 3117 (15.36%) 3285 (21.58%) 3230 (19.54%) 3299 (22.09%) 3332 (23.32%) 2702* TA65 3301 (21.14%) 3434 (26.02%) 3398 (24.7%) 3399 (24.73%) 3384 (24.18%) 2725* TA66 3272 (15.01%) 3447 (21.16%) 3468 (21.9%) 3474 (22.11%) 3505 (23.2%) 2845* TA68 3101 (11.39%) 3241 (16.42%) 3306 (18.75%) 3314 (19.04%) 3374 (21.19%) 2784* TA69 3538 (15.21%) 3639 (18.5%) 3621 (17.91%) 3670 (19.51%) 3645 (18.66%) 3071* TA70 3514 (17.33%) 3697 (23.44%) 3724 (24.34%) 3635 (21.37%) 3718 (24.14%) 2995*  TA71 5990 (9.63%) 6297 (15.25%) 6239 (14.18%) 6372 (16.62%) 6384 (16.84%) 5464* TA72 5679 (9.61%) 5791 (11.77%) 5817 (12.28%) 5847 (12.85%) 5863 (13.16%) 5181* TA73 6144 (10.34%) 6397 (14.89%) 6451 (15.86%) 6406 (15.05%) 6417 (15.25%) 5568* TA75 6125 (13.59%) 6359 (17.93%) 6458 (19.77%) 6496 (20.47%) 6466 (19.92%) 5392* TA75 6125 (13.59%) 6359 (17.93%) 6458 (19.77%) 6496 (20.47%) 6466 (19.92%) 5392* TA76 6033 (12.94%) 6140 (14.94%) 6178 (15.65%) 6150 (15.13%) 6112 (14.41%) 5342* TA77 5865 (7.89%) 5982 (10.04%) 6004 (10.45%) 5980 (10.01%) 5999 (10.36%) 5436* TA79 5848 (9.15%) 6101 (13.87%) 6040 (12.73%) 6081 (13.49%) 5995 (11.89%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                   | 15                  |          |               |                |               |               |               |       |
| TAS7 TAS8 3322 (13.22%) 3434 (17.36%) 3448 (18.52%) 3438 (16.82%) 3504 (19.06%) 2943** TAS8 TAS9 3144 (18.42%) 3438 (19.17%) 3447 (19.48%) 3419 (18.51%) 3433 (18.99%) 2885* TAS9 TA60 3067 (12.63%) 3206 (17.74%) 3215 (18.07%) 3162 (16.12%) 3201 (17.55%) 2723*  TA61 3357 (17.05%) 3492 (21.76%) 3525 (22.91%) 3628 (26.5%) 3622 (26.29%) 2868* TA62 3381 (17.85%) 3586 (24.99%) 3596 (25.34%) 3643 (26.98%) 3615 (26.09%) 2869* TA63 3162 (14.77%) 3342 (21.31%) 3269 (18.66%) 3318 (20.44%) 3345 (21.42%) 2755* TA64 3117 (15.36%) 3285 (21.58%) 3230 (19.54%) 3299 (22.09%) 3332 (23.32%) 2702* TA65 3301 (21.14%) 3434 (26.02%) 3398 (24.7%) 3399 (24.73%) 3384 (24.18%) 2725* TA66 3272 (15.01%) 3447 (21.16%) 3468 (21.9%) 3474 (22.11%) 3505 (23.2%) 2845* TA68 3101 (11.39%) 3241 (16.42%) 3306 (18.75%) 3314 (19.04%) 3374 (21.19%) 2784* TA69 3538 (15.21%) 3639 (18.5%) 3621 (17.91%) 3670 (19.51%) 3645 (18.66%) 3071* TA70 3514 (17.33%) 3697 (23.44%) 3724 (24.34%) 3635 (21.37%) 3718 (24.14%) 2995*  TA71 5990 (9.63%) 6297 (15.25%) 6239 (14.18%) 6372 (16.62%) 6384 (16.84%) 5464* TA72 5679 (9.61%) 5791 (11.77%) 5817 (12.28%) 5847 (12.85%) 5863 (13.16%) 5181* TA73 6144 (10.34%) 6397 (14.89%) 6451 (15.86%) 6406 (15.05%) 6417 (15.25%) 5568* TA75 6125 (13.59%) 6359 (17.93%) 6458 (19.77%) 6496 (20.47%) 6466 (19.92%) 5392* TA75 6125 (13.59%) 6359 (17.93%) 6458 (19.77%) 6496 (20.47%) 6466 (19.92%) 5392* TA76 6033 (12.94%) 6140 (14.94%) 6178 (15.65%) 6150 (15.13%) 6112 (14.41%) 5342* TA77 5865 (7.89%) 5982 (10.04%) 6004 (10.45%) 5980 (10.01%) 5999 (10.36%) 5436* TA79 5848 (9.15%) 6101 (13.87%) 6040 (12.73%) 6081 (13.49%) 5995 (11.89%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                   | ×                   |          |               |                |               |               |               |       |
| TA58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                   | m        | 2222 (42.224) | 0.151 (15.066) | 2400 (40 526) | 2420 (46.026) | 2504 (10.066) |       |
| TA60 3067 (12.63%) 3206 (17.74%) 3215 (18.07%) 3162 (16.12%) 3201 (17.55%) 2723*  TA61 3357 (17.05%) 3492 (21.76%) 3525 (22.91%) 3628 (26.5%) 3622 (26.29%) 2868* TA62 3381 (17.85%) 3586 (24.99%) 3596 (25.34%) 3643 (26.98%) 3615 (26.09%) 2869* TA63 3162 (14.77%) 3342 (21.31%) 3269 (18.66%) 3318 (20.44%) 3345 (21.42%) 2755* TA64 3117 (15.36%) 3285 (21.58%) 3230 (19.54%) 3299 (22.09%) 3332 (23.32%) 2702* TA65 3301 (21.14%) 3434 (26.02%) 3398 (24.7%) 3399 (24.73%) 3383 (24.18%) 2725* TA66 3272 (15.01%) 3447 (21.16%) 3468 (21.9%) 3474 (22.11%) 3505 (23.2%) 2845* TA67 3231 (14.37%) 3597 (27.33%) 3601 (27.47%) 3582 (26.8%) 3640 (28.85%) 2825* TA68 3101 (11.39%) 3241 (16.42%) 3306 (18.75%) 3314 (19.04%) 3374 (21.19%) 2784* TA69 3538 (15.21%) 3639 (18.5%) 3621 (17.91%) 3670 (19.51%) 3645 (18.69%) 3071* TA70 3514 (17.33%) 3697 (23.44%) 3724 (24.34%) 3635 (21.37%) 3718 (24.14%) 2995*  TA71 5990 (9.63%) 6297 (15.25%) 6239 (14.18%) 6372 (16.62%) 6384 (16.84%) 5464* TA72 5679 (9.61%) 5791 (11.77%) 5817 (12.28%) 5847 (12.85%) 5863 (13.16%) 5181* TA73 6124 (10.34%) 6397 (14.89%) 6451 (15.86%) 6406 (15.05%) 6417 (15.25%) 5568* TA74 5680 (6.39%) 5988 (12.16%) 5938 (11.22%) 5977 (11.95%) 6018 (12.72%) 5339* TA75 6125 (13.59%) 6359 (17.93%) 6458 (19.77%) 6496 (20.47%) 6466 (19.92%) 5392* TA76 6033 (12.94%) 6140 (14.94%) 6178 (15.65%) 6150 (15.13%) 6112 (14.41%) 5342* TA77 5865 (7.89%) 5982 (10.04%) 6004 (10.45%) 5980 (10.01%) 5999 (10.36%) 5436* TA79 5848 (9.15%) 6250 (15.87%) 6146 (13.94%) 6311 (17.0%) 6294 (16.69%) 5394* TA79 5848 (9.15%) 6101 (13.87%) 6040 (12.73%) 6081 (13.49%) 5995 (11.89%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |          | 3324 (15.22%) |                | 3447 (19.48%) |               | 3433 (18.99%) | 2885* |
| TA61 3357 (17.05%) 3492 (21.76%) 3525 (22.91%) 3628 (26.5%) 3622 (26.29%) 2868* TA62 3381 (17.85%) 3586 (24.99%) 3596 (25.34%) 3643 (26.98%) 3615 (26.0%) 2869* TA63 3162 (14.77%) 3342 (21.31%) 3269 (18.66%) 3318 (20.44%) 3345 (21.42%) 2755* TA64 3117 (15.36%) 3285 (21.58%) 3230 (19.54%) 3299 (22.09%) 3332 (23.32%) 2702* TA65 3301 (21.14%) 3434 (26.02%) 3398 (24.7%) 3399 (24.73%) 3384 (24.18%) 2725* TA66 3272 (15.01%) 3447 (21.16%) 3468 (21.9%) 3474 (22.11%) 3505 (23.2%) 2845* TA67 3231 (14.37%) 3597 (27.33%) 3601 (27.47%) 3582 (26.8%) 3640 (28.85%) 2825* TA68 3101 (11.39%) 3241 (16.42%) 3306 (18.75%) 3314 (19.04%) 3374 (21.11%) 2784* TA69 3538 (15.21%) 3639 (18.55%) 3621 (17.91%) 3670 (19.51%) 3645 (18.69%) 3071* TA70 3514 (17.33%) 3697 (23.44%) 3724 (24.34%) 3635 (21.37%) 3718 (24.14%) 2995*  TA71 5990 (9.63%) 6297 (15.25%) 6239 (14.18%) 6372 (16.62%) 6384 (16.84%) 5464* TA72 5679 (9.61%) 5791 (11.77%) 5817 (12.28%) 5847 (12.85%) 5863 (13.16%) 5181* TA73 6144 (10.34%) 6397 (14.89%) 6451 (15.86%) 6406 (15.05%) 6417 (15.25%) 5586* TA75 6125 (13.59%) 6359 (17.93%) 6458 (19.77%) 6496 (20.47%) 6466 (19.92%) 5339* TA76 6033 (12.94%) 6140 (14.94%) 6178 (15.65%) 6150 (15.13%) 6112 (14.41%) 5342* TA78 5818 (7.86%) 6250 (15.87%) 6146 (13.94%) 6311 (17.0%) 6294 (16.69%) 5394* TA79 5848 (9.15%) 6101 (13.87%) 6040 (10.45%) 5980 (10.01%) 5995 (11.89%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |          |               |                | , ,           |               |               |       |
| PAG2         3381 (17.85%)         3586 (24.99%)         3596 (25.34%)         3643 (26.98%)         3615 (26.0%)         2869%           TA63         3162 (14.77%)         3342 (21.31%)         3269 (18.66%)         3318 (20.44%)         3345 (21.42%)         2755*           TA64         3117 (15.36%)         3285 (21.58%)         3230 (19.54%)         3299 (24.09%)         3332 (23.32%)         2702*           TA65         3301 (21.14%)         3434 (26.02%)         3398 (24.7%)         3399 (24.73%)         3384 (24.18%)         2725*           TA66         3272 (15.01%)         3447 (21.16%)         3468 (21.9%)         3474 (22.11%)         3505 (23.2%)         2845*           TA67         3231 (14.37%)         3597 (27.33%)         3601 (27.47%)         3582 (26.8%)         3640 (28.85%)         2825*           TA68         3101 (11.39%)         3241 (16.42%)         3306 (18.75%)         3314 (19.04%)         3374 (21.19%)         2784*           TA69         3538 (15.21%)         3697 (23.44%)         3724 (24.34%)         3635 (21.37%)         3718 (24.14%)         2995*           TA70         3514 (17.33%)         3697 (23.44%)         3724 (24.34%)         3635 (21.37%)         3718 (24.14%)         2995*           TA71         5990 (9.61%)         5791                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |          |               |                |               |               |               |       |
| Per Note 1         TA63         3162 (14.77%)         3342 (21.31%)         3269 (18.66%)         3318 (20.44%)         3345 (21.42%)         2755*           TA64         3117 (15.36%)         3285 (21.58%)         3230 (19.54%)         3299 (22.09%)         3332 (23.32%)         2702*           TA65         3301 (21.14%)         3434 (26.02%)         3398 (24.7%)         3399 (24.73%)         3384 (24.18%)         2725*           TA66         3272 (15.01%)         3447 (21.16%)         3468 (21.9%)         3474 (22.11%)         3505 (23.2%)         2845*           TA67         3231 (14.37%)         3597 (27.33%)         3601 (27.47%)         3582 (26.8%)         3640 (28.85%)         2825*           TA68         3101 (11.39%)         3241 (16.42%)         3306 (18.75%)         3314 (19.04%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3374 (21.19%)         3474 (22.11%)         3374 (21.19%)         3474 (22.11%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |          |               |                |               | , ,           |               |       |
| Port of Street Properties         TA64         3117 (15.36%)         3285 (21.58%)         3230 (19.54%)         3299 (22.09%)         3332 (23.32%)         2702*           TA65         3301 (21.14%)         3434 (26.02%)         3398 (24.7%)         3399 (24.73%)         3384 (24.18%)         2725*           TA66         3272 (15.01%)         3447 (21.16%)         3468 (21.9%)         3474 (22.11%)         3505 (32.2%)         2845*           TA67         3231 (14.37%)         3597 (27.33%)         3601 (27.47%)         3582 (26.8%)         3640 (28.85%)         2825*           TA69         3538 (15.21%)         3639 (18.5%)         3661 (17.91%)         3670 (19.51%)         3645 (18.69%)         3071*           TA70         3514 (17.33%)         3697 (23.44%)         3724 (24.34%)         3637 (19.51%)         3645 (18.69%)         3071*           TA71         5990 (9.63%)         6297 (15.25%)         6239 (14.18%)         6372 (16.62%)         6384 (16.84%)         5464*           TA72         5679 (9.61%)         5791 (11.77%)         5817 (12.28%)         5847 (12.85%)         5863 (13.16%)         5181*           TA73         6144 (10.34%)         6397 (14.89%)         6451 (15.86%)         6406 (15.05%)         6417 (15.25%)         5568*           TA75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |          |               |                |               |               |               |       |
| No. 20         TA65         3301 (21.14%)         3434 (26.02%)         3398 (24.7%)         3399 (24.73%)         3384 (24.18%)         2725*           TA66         3272 (15.01%)         3447 (21.16%)         3468 (21.9%)         3474 (22.11%)         3505 (23.2%)         2845*           TA67         3231 (14.37%)         3597 (27.33%)         3601 (27.47%)         3582 (26.8%)         3640 (28.85%)         2825*           TA68         3101 (11.39%)         3241 (16.42%)         3306 (18.75%)         3314 (19.04%)         3374 (21.19%)         2784*           TA69         3538 (15.21%)         3697 (23.44%)         3724 (24.34%)         3635 (21.37%)         3614 (18.69%)         3071*           TA70         3514 (17.33%)         3697 (23.44%)         3724 (24.34%)         3635 (21.37%)         3718 (24.14%)         2995*           TA71         5990 (9.63%)         6297 (15.25%)         6239 (14.18%)         6372 (16.62%)         6384 (16.84%)         5464*           TA72         5679 (9.61%)         5791 (11.77%)         5817 (12.28%)         5847 (12.85%)         5863 (13.16%)         5181*           TA73         6144 (10.34%)         6397 (14.89%)         6451 (15.86%)         6406 (15.05%)         6417 (15.25%)         558*           TA75         6125 (13.59%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | _                   |          |               |                |               |               |               |       |
| TA67 TA68 3101 (11.39%) 3241 (16.42%) 3306 (18.75%) 3314 (19.04%) 3374 (21.19%) 22825* TA69 3538 (15.21%) 3639 (18.5%) 3621 (17.91%) 3670 (19.51%) 3645 (18.69%) 3071* TA70 3514 (17.33%) 3697 (23.44%) 3724 (24.34%) 3635 (21.37%) 3718 (24.14%) 2995*  TA71 5990 (9.63%) 6297 (15.25%) 6239 (14.18%) 6372 (16.62%) 6384 (16.84%) 5464* TA72 5679 (9.61%) 5791 (11.77%) 5817 (12.28%) 5847 (12.85%) 5863 (13.16%) 5181* TA73 6144 (10.34%) 6397 (14.89%) 6451 (15.86%) 6406 (15.05%) 6417 (15.25%) 5588* TA75 6125 (13.59%) 6359 (17.93%) 6458 (19.77%) 6496 (20.47%) 6466 (19.92%) 5392* TA77 5865 (7.89%) 5982 (10.04%) 6404 (10.45%) 5989 (10.10%) 5999 (10.36%) 5394* TA79 5848 (9.15%) 6101 (13.87%) 6040 (12.73%) 6081 (13.49%) 5995 (11.89%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <sup>2</sup> ر      |          |               |                |               |               |               |       |
| TA67 TA68 3101 (11.39%) 3241 (16.42%) 3306 (18.75%) 3314 (19.04%) 3374 (21.19%) 22825* TA69 3538 (15.21%) 3639 (18.5%) 3621 (17.91%) 3670 (19.51%) 3645 (18.69%) 3071* TA70 3514 (17.33%) 3697 (23.44%) 3724 (24.34%) 3635 (21.37%) 3718 (24.14%) 2995*  TA71 5990 (9.63%) 6297 (15.25%) 6239 (14.18%) 6372 (16.62%) 6384 (16.84%) 5464* TA72 5679 (9.61%) 5791 (11.77%) 5817 (12.28%) 5847 (12.85%) 5863 (13.16%) 5181* TA73 6144 (10.34%) 6397 (14.89%) 6451 (15.86%) 6406 (15.05%) 6417 (15.25%) 5588* TA75 6125 (13.59%) 6359 (17.93%) 6458 (19.77%) 6496 (20.47%) 6466 (19.92%) 5392* TA77 5865 (7.89%) 5982 (10.04%) 6404 (10.45%) 5989 (10.01%) 5999 (10.36%) 5394* TA79 5848 (9.15%) 6101 (13.87%) 6040 (12.73%) 6081 (13.49%) 5995 (11.89%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 20                  | TA66     | 3272 (15.01%) | 3447 (21.16%)  |               | 3474 (22.11%) | 3505 (23.2%)  | 2845* |
| TA69 3538 (15.21%) 3639 (18.5%) 3621 (17.91%) 3670 (19.51%) 3645 (18.69%) 3071* TA70 3514 (17.33%) 3697 (23.44%) 3724 (24.34%) 3635 (21.37%) 3718 (24.14%) 2995*  TA71 5990 (9.63%) 6297 (15.25%) 6239 (14.18%) 6372 (16.62%) 6384 (16.84%) 5464* TA72 5679 (9.61%) 5791 (11.77%) 5817 (12.28%) 5847 (12.85%) 5863 (13.16%) 5181* TA73 6144 (10.34%) 6397 (14.89%) 6451 (15.86%) 6406 (15.05%) 6417 (15.25%) 5568* TA74 5680 (6.39%) 5988 (12.16%) 5938 (11.22%) 5977 (11.95%) 6018 (12.72%) 5339* TA75 6125 (13.59%) 6359 (17.93%) 6458 (19.77%) 6496 (20.47%) 6466 (19.92%) 5392* TA76 6033 (12.94%) 6140 (14.94%) 6178 (15.65%) 6150 (15.13%) 6112 (14.41%) 5342* TA77 5865 (7.89%) 5982 (10.04%) 6004 (10.45%) 5980 (10.01%) 5999 (10.36%) 5436* TA78 5818 (7.86%) 6250 (15.87%) 6146 (13.94%) 6311 (17.0%) 6294 (16.69%) 5394* TA79 5848 (9.15%) 6101 (13.87%) 6040 (12.73%) 6081 (13.49%) 5995 (11.89%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                   |          |               |                |               |               |               | 2825* |
| TA70 3514 (17.33%) 3697 (23.44%) 3724 (24.34%) 3635 (21.37%) 3718 (24.14%) 2995*  TA71 5990 (9.63%) 6297 (15.25%) 6239 (14.18%) 6372 (16.62%) 6384 (16.84%) 5464* TA72 5679 (9.61%) 5791 (11.77%) 5817 (12.28%) 5847 (12.85%) 5863 (13.16%) 5181* TA73 6144 (10.34%) 6397 (14.89%) 6451 (15.86%) 6406 (15.05%) 6417 (15.25%) 5568* TA74 5680 (6.39%) 5988 (12.16%) 5938 (11.22%) 5977 (11.95%) 6018 (12.72%) 5339* TA75 6125 (13.59%) 6359 (17.93%) 6458 (19.77%) 6496 (20.47%) 6466 (19.92%) 5392* TA76 6033 (12.94%) 6140 (14.94%) 6178 (15.65%) 6150 (15.13%) 6112 (14.41%) 5342* TA77 5865 (7.89%) 5982 (10.04%) 6004 (10.45%) 5980 (10.01%) 5999 (10.36%) 5436* TA78 5818 (7.86%) 6250 (15.87%) 6146 (13.94%) 6311 (17.0%) 6294 (16.69%) 5394* TA79 5848 (9.15%) 6101 (13.87%) 6040 (12.73%) 6081 (13.49%) 5995 (11.89%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |          |               |                |               |               |               | 2784* |
| TA71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |          |               |                |               |               |               |       |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |          |               |                |               |               |               |       |
| E     TA74     5680 (6.39%)     5988 (12.16%)     5938 (11.22%)     5977 (11.95%)     6018 (12.72%)     5339*       E     TA75     6125 (13.59%)     6359 (17.93%)     6485 (19.77%)     6496 (20.47%)     6466 (19.92%)     5392*       TA76     6033 (12.94%)     6140 (14.94%)     6178 (15.65%)     6150 (15.13%)     6112 (14.41%)     5342*       TA77     5865 (7.89%)     5982 (10.04%)     6004 (10.45%)     5980 (10.01%)     5999 (10.36%)     5436*       TA78     5818 (7.86%)     6250 (15.87%)     6146 (13.94%)     6311 (17.0%)     6294 (16.69%)     5394*       TA79     5848 (9.15%)     6101 (13.87%)     6040 (12.73%)     6081 (13.49%)     5995 (11.89%)     5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |          |               |                |               |               |               |       |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     | TA73     | 6144 (10.34%) | 6397 (14.89%)  |               | 6406 (15.05%) |               | 5568* |
| TA78 <b>5818</b> (7.86%) 5982 (10.04%) 5004 (10.45%) 5980 (10.01%) 5999 (10.36%) 5436* TA79 <b>5848</b> (9.15%) 6250 (15.87%) 6146 (13.94%) 6311 (17.0%) 6294 (16.66%) 5394* TA79 <b>5848</b> (9.15%) 6101 (13.87%) 6040 (12.73%) 6081 (13.49%) 5995 (11.89%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 20                  |          |               |                |               |               |               | 5339* |
| TA78 <b>5818</b> (7.86%) 5982 (10.04%) 5004 (10.45%) 5980 (10.01%) 5999 (10.36%) 5436* TA79 <b>5848</b> (9.15%) 6250 (15.87%) 6146 (13.94%) 6311 (17.0%) 6294 (16.66%) 5394* TA79 <b>5848</b> (9.15%) 6101 (13.87%) 6040 (12.73%) 6081 (13.49%) 5995 (11.89%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ×                   |          |               |                |               |               |               | 5392* |
| TA78 <b>5818</b> (7.86%) 5982 (10.04%) 5004 (10.45%) 5980 (10.01%) 5999 (10.36%) 5436* TA79 <b>5848</b> (9.15%) 6250 (15.87%) 6146 (13.94%) 6311 (17.0%) 6294 (16.66%) 5394* TA79 <b>5848</b> (9.15%) 6101 (13.87%) 6040 (12.73%) 6081 (13.49%) 5995 (11.89%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 100                 |          |               |                |               |               |               |       |
| TA79 <b>5848 (9.15%</b> ) 6101 (13.87%) 6040 (12.73%) 6081 (13.49%) 5995 (11.89%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |          |               |                |               |               |               |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |          |               |                |               |               |               |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |          |               |                |               |               |               |       |

Table 10: CL strategies on Taillard's instances.

| TA2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | _    | Instance | Zhang et al.  | ICL           | Base          | UCL           | ASCL          | ACL           | UB     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|---------------|---------------|---------------|---------------|---------------|---------------|--------|
| TA3 1440 (18.23%) 1393 (14.37%) 1393 (14.37%) 1393 (14.37%) 1404 (13.95%) 1393 (15.06%) 1218** TA5 1619 (12.27%) 1390 (13.66%) 1390 (13.66%) 1407 (14.95%) 1393 (35.85%) 1393 (6.45%) 1228** TA5 1619 (12.27%) 1390 (13.66%) 1390 (13.66%) 1407 (14.95%) 1393 (35.85%) 1393 (6.45%) 1228** TA5 1619 (12.27%) 1390 (13.66%) 1390 (13.66%) 1407 (15.61%) 1409 (15.75%) 1393 (35.85%) 1228** TA5 1618 (26.27%) 1407 (15.61%) 1407 (15.61%) 1409 (15.75%) 1394 (15.61%) 1228** TA5 1618 (26.27%) 1407 (15.61%) 1407 (15.61%) 1409 (15.75%) 1394 (15.91%) 1328 (35.85%) 1228** TA5 1979 (12.27%) 1595 (15.91%) 1407 (15.61%) 1409 (15.75%) 1384 (15.95%) 1384 (11.52%) 1324 (11.52%) 1327 (12.05%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 (15.95%) 1479 |      | TA1      | 1443 (17.22%) | 1475 (19.82%) | 1475 (19.82%) | 1393 (13.16%) | 1387 (12.67%) | 1379 (12.02%) | 1231*  |
| TA4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |          |               | 1401 (12.62%) | 1401 (12.62%) | 1391 (11.82%) | 1336 (7.4%)   |               |        |
| Yes   TAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |               |               |               |               |               |               |        |
| TAZ 1 588 (27.7%)   1425 (61.4%)   1425 (61.4%)   1398 (13.94%)   1321 (7.66%)   1321 (8.85%)   1227                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 15   |          |               |               |               |               |               |               |        |
| TAZI 1686 (27.79%) 1425 (16.14%) 1250 (16.14%) 1398 (13.94%) 1321 (7.66%) 1328 (8.56%) 1227* TAXI 1686 (20.07%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 1470 (15.01%) 14 | ×    |          |               |               |               |               |               |               |        |
| TA10 1527 (27.71%) 1439 (15.54%) 1472 (15.54%) 1478 (16.01%) 1390 (19.11%) 1412 (10.83%) 1274*  TA11 1794 (12.26%) 1576 (16.14%) 1671 (23.14%) 1652 (17.4%) 1588 (13.34%) 1596 (16.98%) 1377*  TA13 1912 (43.85%) 1590 (16.83%) 1691 (25.91%) 1634 (16.7%) 1534 (14.89%) 1514 (10.75%) 1514 (10.75%) 1514 (10.75%) 1514 (10.75%) 1514 (10.75%) 1514 (10.75%) 1515 (14.05%) 1515 (14.25%) 1515 (14.15%) 1515 (12.45%) 1515 (12.24%) 1515 (16.05%) 1515 (14.05%) 1515 (12.24%) 1515 (15.05%) 1515 (12.24%) 1515 (15.05%) 1515 (12.25%) 1515 (10.05%) 1515 (12.25%) 1515 (10.05%) 1515 (12.25%) 1515 (10.05%) 1515 (12.25%) 1515 (10.05%) 1515 (12.25%) 1515 (12.05%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 1515 (12.25%) 151 | _    |          |               |               |               |               | 1321 (7.66%)  |               | 1227*  |
| TA10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |               |               |               |               |               |               |        |
| TA11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |               |               |               |               |               |               |        |
| TA12 1805 (23.04%) 1596 (16.75%) 1607 (25.75%) 1589 (16.24%) 1498 (9.85%) 1514 (10.75%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17.5%) 1367 (17 |      |          |               |               |               |               |               |               |        |
| TA14   1664 (23.72%)   1534 (16.00%)   1675 (25.00%)   1621 (21.00%)   1492 (11.14.34)   1516 (13.22%)   1339 (13.27%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370 (12.20%)   1370  |      |          |               |               |               |               |               |               |        |
| TALIS 1730 (29.2%) 1554 (16.06%) 1692 (12.06%) 1657 (21.34%) 1558 (14.56%) 1485 (19.16) 1360 (17.10 (25.74%) 1582 (16.32.2%) 1689 (24.19%) 1657 (21.34%) 1558 (14.56%) 1485 (19.16%) 1360 (17.10 (25.74%) 1705 (16.62%) 1785 (27.15%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.07%) 1652 (10.0 |      |          |               |               |               |               |               |               | 1343*  |
| TA17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 15   |          |               |               |               |               |               |               |        |
| TA17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ×    |          |               |               |               |               |               |               |        |
| TA19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 64   |          | 1897 (29.75%) |               | 1800 (23.12%) | 1732 (18.47%) | 1666 (13.95%) |               |        |
| TA20 1739 (29.01%) 1558 (15.58%) 162 (21.07%) 1574 (16.77%) 1519 (12.09%) 1482 (9.94%) 1602*  TA21 210 (21.137%) 1855 (16.56%) 1937 (21.06%) 1875 (17.19%) 1861 (16.55%) 1752 (16.55%) 1577*  TA22 2008 (33.31%) 1889 (31.01%) 1930 (22.22%) 1853 (19.10%) 1745 (12.07%) 1746 (12.77%) 1567*  TA24 2200 (33.82%) 1889 (15.45%) 1930 (12.22%) 1853 (19.10%) 1745 (12.07%) 1746 (12.77%) 1567*  TA24 2200 (33.82%) 1889 (13.45%) 1938 (17.56%) 1916 (16.55%) 1818 (10.58%) 1807 (9.91%) 1557*  TA25 210 (37.97%) 1866 (16.96%) 2006 (22.77%) 1900 (17.92%) 1807 (19.99%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.77%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17%) 1746 (12.17 |      |          |               |               |               |               |               |               | 1396*  |
| TA21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |               |               |               |               |               |               |        |
| TA222 210(231.37%) 1856 (16.56%) 1977 (21.06%) 1875 (17.19%) 17.69 (10.56%) 1752 (9.5%) 1657 TA244 2200 (33.32%) 1889 (15.45%) 1938 (12.22%) 1853 (19.19%) 1916 (16.55%) 1818 (10.55%) 1807 (9.91%) 1644 TA25 2201 (37.99%) 1866 (16.99%) 2006 (25.7%) 1900 (17.29%) 1870 (13.29%) 1772 (11.1%) 1957 TA26 2176 (32.44%) 1928 (17.35%) 1971 (19.96%) 1943 (18.26%) 1810 (10.16%) 1802 (9.66%) 1639 TA25 2140 (33.37%) 1881 (14.85%) 1924 (20.02%) 1814 (13.16%) 1798 (12.16%) 1788 (12.15%) 1870 (17.25%) 1950 (17.85%) 1856 (14.71%) 1796 (12.15%) 1950 (17.85%) 1856 (14.71%) 1796 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 1798 (12.16%) 179 |      |          |               |               |               |               |               |               |        |
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| TA31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |               |               |               |               |               |               |        |
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| TA35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          | 2324 (29.76%) |               | 2410 (34.56%) | 2295 (28.14%) | 2185 (22.0%)  |               | 1791*  |
| TA37 TA38 2302 (31.28%) 2251 (27.1%) 2329 (31.51%) 2197 (24.05%) 2098 (18.46%) 2808 (17.45%) 1771* TA39 TA38 2302 (37.05%) 2036 (21.7%) 2108 (26.0%) 2071 (23.7%) 1926 (15.12%) 1882 (12.49%) 1673* TA40 2410 (34.26%) 2194 (22.23%) 2226 (24.01%) 2119 (18.05%) 2056 (14.54%) 2029 (13.04%) 1795* TA40 2410 (32.22%) 2032 (21.75%) 2084 (24.87%) 2007 (20.25%) 1973 (18.21%) 1930 (15.64%) 1669* TA41 2667 (33.02%) 2543 (26.83%) 2604 (29.88%) 2446 (24.73%) 2335 (15.38%) 2250 (16.68%) 1937* TA44 2431 (31.09%) 2332 (26.33%) 2445 (22.45%) 2324 (16.47.73%) 2235 (15.38%) 2250 (16.68%) 1937* TA44 2431 (31.14%) 2506 (26.63%) 2671 (34.97%) 2518 (27.24%) 2323 (17.38%) 2239 (15.57.9%) 1979* TA44 2714 (37.14%) 2506 (26.63%) 2671 (34.97%) 2518 (27.24%) 2323 (17.38%) 2239 (15.57.9%) 1979* TA45 267 TA45 267 TA45 267 (31.07%) 2398 (26.95%) 2468 (30.65%) 2323 (22.98%) 2200 (16.46%) 2141 (13.34%) 1889* TA48 2490 (28.55%) 2471 (27.75%) 2495 (28.81%) 2396 (23.75%) 2248 (14.07.9%) 2289 (18.17%) 1937* TA49 2256 (30.34%) 2428 (23.81%) 2496 (27.28%) 2329 (18.77%) 2266 (15.55%) 2270 (15.76%) 1961* TA51 3599 (30.4%) 3394 (22.97%) 3551 (28.66%) 3357 (21.63%) 3303 (19.67%) 3181 (15.25%) 2760* TA52 3331 (21.25%) 3337 (21.08%) 3428 (24.38%) 3254 (18.07%) 3106 (12.7%) 3029 (9.91%) 2756* TA53 3386 (17.26%) 3122 (14.91%) 3164 (16.55%) 3035 (11.7%) 2942 (28.88%) 2921 (7.51%) 2777* TA54 32366 (15.04%) 3163 (11.41%) 3310 (16.59%) 3134 (10.39%) 3012 (6.09%) 2914 (2.64%) 2839* TA55 3338 (21.47%) 3990 (18.35%) 3304 (19.05%) 3326 (13.01%) 3294 (10.44%) 3180 (8.05%) 2781* TA55 3232 (20.64%) 3247 (21.25%) 3299 (16.55%) 3336 (10.17%) 3106 (12.7%) 3001 (16.38%) 3301 (16.09%) 3101 (16.09%) 3101 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16 | 15   |          |               |               |               |               |               |               |        |
| TA37 TA38 2302 (31.28%) 2251 (27.1%) 2329 (31.51%) 2197 (24.05%) 2098 (18.46%) 2808 (17.45%) 1771* TA39 TA38 2302 (37.05%) 2036 (21.7%) 2108 (26.0%) 2071 (23.7%) 1926 (15.12%) 1882 (12.49%) 1673* TA40 2410 (34.26%) 2194 (22.23%) 2226 (24.01%) 2119 (18.05%) 2056 (14.54%) 2029 (13.04%) 1795* TA40 2410 (32.22%) 2032 (21.75%) 2084 (24.87%) 2007 (20.25%) 1973 (18.21%) 1930 (15.64%) 1669* TA41 2667 (33.02%) 2543 (26.83%) 2604 (29.88%) 2446 (24.73%) 2335 (15.38%) 2250 (16.68%) 1937* TA44 2431 (31.09%) 2332 (26.33%) 2445 (22.45%) 2324 (16.47.73%) 2235 (15.38%) 2250 (16.68%) 1937* TA44 2431 (31.14%) 2506 (26.63%) 2671 (34.97%) 2518 (27.24%) 2323 (17.38%) 2239 (15.57.9%) 1979* TA44 2714 (37.14%) 2506 (26.63%) 2671 (34.97%) 2518 (27.24%) 2323 (17.38%) 2239 (15.57.9%) 1979* TA45 267 TA45 267 TA45 267 (31.07%) 2398 (26.95%) 2468 (30.65%) 2323 (22.98%) 2200 (16.46%) 2141 (13.34%) 1889* TA48 2490 (28.55%) 2471 (27.75%) 2495 (28.81%) 2396 (23.75%) 2248 (14.07.9%) 2289 (18.17%) 1937* TA49 2256 (30.34%) 2428 (23.81%) 2496 (27.28%) 2329 (18.77%) 2266 (15.55%) 2270 (15.76%) 1961* TA51 3599 (30.4%) 3394 (22.97%) 3551 (28.66%) 3357 (21.63%) 3303 (19.67%) 3181 (15.25%) 2760* TA52 3331 (21.25%) 3337 (21.08%) 3428 (24.38%) 3254 (18.07%) 3106 (12.7%) 3029 (9.91%) 2756* TA53 3386 (17.26%) 3122 (14.91%) 3164 (16.55%) 3035 (11.7%) 2942 (28.88%) 2921 (7.51%) 2777* TA54 32366 (15.04%) 3163 (11.41%) 3310 (16.59%) 3134 (10.39%) 3012 (6.09%) 2914 (2.64%) 2839* TA55 3338 (21.47%) 3990 (18.35%) 3304 (19.05%) 3326 (13.01%) 3294 (10.44%) 3180 (8.05%) 2781* TA55 3232 (20.64%) 3247 (21.25%) 3299 (16.55%) 3336 (10.17%) 3106 (12.7%) 3001 (16.38%) 3301 (16.09%) 3101 (16.09%) 3101 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16.09%) 310 (16 | ×    |          |               |               |               |               |               |               |        |
| TA38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3    |          |               |               |               |               |               |               |        |
| TA40 2140 (28.22%) 2032 (21.75%) 2084 (24.87%) 2007 (20.25%) 1973 (18.21%) 1930 (15.64%) 1669*  TA41 2667 (33.02%) 2543 (26.83%) 2604 (29.88%) 2482 (23.79%) 2397 (19.55%) 2356 (17.51%) 2005* TA42 2664 (37.53%) 2332 (26.33%) 2445 (23.45%) 2354 (27.52%) 2194 (18.85%) 2260 (16.68%) 1937* TA43 2431 (31.69%) 2332 (26.33%) 2445 (23.45%) 2354 (27.52%) 2194 (18.85%) 2163 (17.17%) 1846* TA44 2714 (37.14%) 2556 (26.63%) 2470 (23.5%) 2552 (27.6%) 2443 (22.15%) 2289 (14.45%) 2250 (12.5%) 2000* TA45 2637 (31.85%) 2470 (23.5%) 2552 (27.6%) 2443 (22.15%) 2289 (14.45%) 2250 (12.5%) 2000* TA46 2776 (38.83%) 2569 (28.07%) 2615 (30.36%) 2515 (25.37%) 2341 (16.7%) 2314 (15.34%) 1889* TA47 2476 (31.07%) 2398 (26.95%) 2496 (27.28%) 2396 (23.7%) 2285 (12.5%) 2299 (18.17%) 1937* TA48 2490 (28.55%) 2471 (27.57%) 2496 (27.28%) 2396 (23.77%) 2285 (15.55%) 2270 (15.76%) 1961* TA51 2599 (30.4%) 3337 (21.08%) 3428 (24.38%) 3254 (18.07%) 3106 (15.27%) 3299 (18.17%) 1937* TA52 3341 (21.23%) 3337 (21.08%) 3428 (24.38%) 3254 (18.07%) 3106 (12.7%) 3029 (9.91%) 2756* TA53 3186 (17.26%) 3122 (14.91%) 3164 (6.45%) 3035 (11.7%) 2942 (8.28%) 2921 (7.51%) 2717* TA54 3266 (15.04%) 3136 (11.41%) 310 (16.5%) 3136 (10.39%) 3012 (60.99%) 2912 (7.51%) 2717* TA55 3338 (21.73%) 3290 (18.37%) 3294 (18.59%) 3334 (15.56%) 3334 (15.56%) 3336 (13.77%) 3081 (10.79%) 3012 (8.31%) 2781* TA55 3332 (20.64%) 3337 (21.08%) 3330 (41.917%) 3150 (13.27%) 3081 (10.79%) 3010 (13.85%) 2679* TA53 338 (27.73%) 3339 (33.41%) 3304 (19.06%) 3326 (13.01%) 3294 (10.49%) 3108 (8.05%) 2943* TA58 3732 (29.36%) 3334 (15.66%) 3330 (14.18%) 3301 (15.09%) 3321 (15.11%) 3106 (0.97%) 3101 (7.56%) 3381 (15.25%) 3381 (27.34%) 3390 (10.35%) 3321 (15.11%) 3106 (0.97%) 3101 (7.55%) 3381 (17.56%) 3381 (17.56%) 3381 (17.56%) 3381 (17.56%) 3381 (17.56%) 3381 (17.56%) 3381 (17.56%) 3381 (17.56%) 3381 (17.56%) 3381 (17.56%) 3381 (17.56%) 3381 (18.98%) 3321 (15.11%) 310 (16.09%) 310 (16.09%) 310 (13.35%) 2929 (16.55%) 310 (10.49%) 310 (16.69%) 310 (16.69%) 310 (16.69%) 310 (16.69%) 310 (16.69%) 310 (16. |      |          |               |               |               |               |               |               | 1673*  |
| TA41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |               |               |               |               |               |               |        |
| TA42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |               |               |               |               |               |               |        |
| TA44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |               |               |               |               |               |               | 1937*  |
| QC         TA45         2637 (31.85%)         2470 (23.5%)         2552 (27.6%)         2443 (22.15%)         2289 (14.45%)         2250 (12.5%)         2000*           TA46         2776 (38.38%)         2569 (28.07%)         2615 (30.36%)         2515 (25.37%)         2341 (16.7%)         2314 (13.35%)         2006*           TA47         2476 (31.07%)         2398 (26.95%)         2468 (30.65%)         2515 (22.98%)         2396 (23.7%)         2286 (17.97%)         2289 (18.17%)         1937*           TA49         2556 (30.34%)         2428 (23.81%)         2499 (28.28%)         2392 (18.77%)         2280 (18.56%)         2279 (18.51%)         1937*           TA50         2628 (36.66%)         2434 (26.57%)         2522 (31.15%)         2419 (25.79%)         2280 (18.56%)         2279 (18.51%)         1923*           TA51         3599 (30.4%)         3394 (22.97%)         3551 (28.66%)         3357 (21.63%)         3303 (19.67%)         3181 (15.25%)         279 (18.51%)         1923*           TA52         3341 (21.23%)         3337 (21.08%)         3436 (16.45%)         3035 (11.7%)         2942 (8.28%)         2921 (7.51%)         2175 (27.1%)         2175 (27.1%)         2175 (27.1%)         2175 (27.1%)         2175 (27.1%)         2175 (27.1%)         2175 (27.1%)         2175 (27.1%)         21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |               |               |               |               |               |               |        |
| TA47 2476 (31.07%) 2398 (26.95%) 2468 (30.65%) 2323 (22.98%) 2200 (16.46%) 1838* TA48 2490 (28.55%) 2471 (27.57%) 2495 (28.81%) 2396 (23.78%) 2285 (17.97%) 2285 (18.17%) 1937* TA49 2556 (30.34%) 2428 (23.81%) 2496 (27.28%) 2329 (18.77%) 2266 (15.55%) 2270 (15.76%) 1961* TA50 2628 (36.66%) 2434 (26.57%) 2522 (31.15%) 2419 (25.79%) 2280 (18.56%) 2279 (18.57%) 1923*  TA51 3599 (30.4%) 3394 (22.97%) 3551 (28.66%) 3357 (21.63%) 3303 (19.67%) 3181 (15.25%) 2756* TA52 3341 (21.23%) 3337 (21.08%) 3428 (24.38%) 3254 (18.07%) 3106 (12.77%) 3029 (9.91%) 2756* TA53 3186 (17.26%) 3122 (14.91%) 3164 (16.45%) 3035 (11.7%) 2942 (8.28%) 2921 (7.51%) 2717* TA54 3266 (15.04%) 3163 (11.41%) 3310 (16.59%) 3134 (10.39%) 3012 (6.09%) 2914 (2.64%) 2839* TA55 3232 (20.64%) 3247 (21.2%) 3259 (21.65%) 3109 (16.05%) 3065 (14.41%) 3050 (13.85%) 2679* TA55 3378 (21.47%) 3290 (18.3%) 3314 (19.17%) 3150 (13.27%) 3081 (10.79%) 3012 (8.31%) 2781* TA58 3732 (29.36%) 3334 (15.56%) 3433 (18.99%) 3321 (15.11%) 3166 (9.74%) 3180 (8.05%) 2943* TA58 3732 (29.36%) 3334 (15.56%) 3433 (18.99%) 3321 (15.11%) 3166 (9.74%) 3103 (7.56%) 2885* TA59 3381 (27.34%) 3196 (20.38%) 3303 (24.41%) 3152 (18.72%) 3025 (13.94%) 3009 (13.33%) 2655* TA60 3352 (23.1%) 3496 (20.38%) 3303 (24.41%) 3152 (18.72%) 3025 (13.94%) 3009 (13.33%) 2655* TA60 3352 (23.1%) 3496 (21.85%) 3615 (26.0%) 3443 (20.05%) 3221 (12.31%) 3184 (11.02%) 2868* TA62 3722 (29.73%) 3496 (21.85%) 3615 (26.0%) 3428 (19.48%) 3274 (14.12%) 3229 (12.55%) 2869* TA63 3536 (28.35%) 3232 (17.31%) 3345 (21.42%) 3163 (14.81%) 3040 (10.34%) 3004 (9.04%) 2755* TA64 3631 (34.38%) 3144 (10.1%) 3334 (21.42%) 3163 (14.81%) 3040 (10.34%) 3004 (9.04%) 2755* TA65 3359 (23.27%) 3314 (21.61%) 3334 (21.42%) 3630 (14.81%) 3040 (10.34%) 3004 (9.04%) 2755* TA66 3555 (24.96%) 3415 (20.04%) 3505 (23.2%) 3334 (17.19%) 3144 (10.51%) 3144 (10.51%) 2868* TA67 3567 (26.27%) 3442 (21.88%) 3600 (28.88%) 3600 (28.88%) 3714 (14.01%) 3337 (21.21%) 3134 (11.45%) 3120 (10.44%) 2858* TA68 3680 (32.18%) 3714 (14.01%) 3338 (28.8%) 3590 (19.27%) | 20   |          |               |               |               |               |               |               |        |
| TA47 2476 (31.07%) 2398 (26.95%) 2468 (30.65%) 2323 (22.98%) 2200 (16.46%) 1838* TA48 2490 (28.55%) 2471 (27.57%) 2495 (28.81%) 2396 (23.78%) 2285 (17.97%) 2285 (18.17%) 1937* TA49 2556 (30.34%) 2428 (23.81%) 2496 (27.28%) 2329 (18.77%) 2266 (15.55%) 2270 (15.76%) 1961* TA50 2628 (36.66%) 2434 (26.57%) 2522 (31.15%) 2419 (25.79%) 2280 (18.56%) 2279 (18.57%) 1923*  TA51 3599 (30.4%) 3394 (22.97%) 3551 (28.66%) 3357 (21.63%) 3303 (19.67%) 3181 (15.25%) 2756* TA52 3341 (21.23%) 3337 (21.08%) 3428 (24.38%) 3254 (18.07%) 3106 (12.77%) 3029 (9.91%) 2756* TA53 3186 (17.26%) 3122 (14.91%) 3164 (16.45%) 3035 (11.7%) 2942 (8.28%) 2921 (7.51%) 2717* TA54 3266 (15.04%) 3163 (11.41%) 3310 (16.59%) 3134 (10.39%) 3012 (6.09%) 2914 (2.64%) 2839* TA55 3232 (20.64%) 3247 (21.2%) 3259 (21.65%) 3109 (16.05%) 3065 (14.41%) 3050 (13.85%) 2679* TA55 3378 (21.47%) 3290 (18.3%) 3314 (19.17%) 3150 (13.27%) 3081 (10.79%) 3012 (8.31%) 2781* TA58 3732 (29.36%) 3334 (15.56%) 3433 (18.99%) 3321 (15.11%) 3166 (9.74%) 3180 (8.05%) 2943* TA58 3732 (29.36%) 3334 (15.56%) 3433 (18.99%) 3321 (15.11%) 3166 (9.74%) 3103 (7.56%) 2885* TA59 3381 (27.34%) 3196 (20.38%) 3303 (24.41%) 3152 (18.72%) 3025 (13.94%) 3009 (13.33%) 2655* TA60 3352 (23.1%) 3496 (20.38%) 3303 (24.41%) 3152 (18.72%) 3025 (13.94%) 3009 (13.33%) 2655* TA60 3352 (23.1%) 3496 (21.85%) 3615 (26.0%) 3443 (20.05%) 3221 (12.31%) 3184 (11.02%) 2868* TA62 3722 (29.73%) 3496 (21.85%) 3615 (26.0%) 3428 (19.48%) 3274 (14.12%) 3229 (12.55%) 2869* TA63 3536 (28.35%) 3232 (17.31%) 3345 (21.42%) 3163 (14.81%) 3040 (10.34%) 3004 (9.04%) 2755* TA64 3631 (34.38%) 3144 (10.1%) 3334 (21.42%) 3163 (14.81%) 3040 (10.34%) 3004 (9.04%) 2755* TA65 3359 (23.27%) 3314 (21.61%) 3334 (21.42%) 3630 (14.81%) 3040 (10.34%) 3004 (9.04%) 2755* TA66 3555 (24.96%) 3415 (20.04%) 3505 (23.2%) 3334 (17.19%) 3144 (10.51%) 3144 (10.51%) 2868* TA67 3567 (26.27%) 3442 (21.88%) 3600 (28.88%) 3600 (28.88%) 3714 (14.01%) 3337 (21.21%) 3134 (11.45%) 3120 (10.44%) 2858* TA68 3680 (32.18%) 3714 (14.01%) 3338 (28.8%) 3590 (19.27%) | ×    |          |               |               |               |               |               |               |        |
| TA49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (,,  |          |               |               |               |               |               |               | 1889*  |
| TA50 2628 (36.66%) 2434 (26.57%) 2522 (31.15%) 2419 (25.79%) 2280 (18.56%) 2279 (18.51%) 1923**  TA51 3599 (30.4%) 3394 (22.97%) 3551 (28.66%) 3357 (21.63%) 3303 (19.67%) 3181 (15.25%) 2760**  TA52 3341 (21.23%) 3337 (21.08%) 3428 (24.38%) 3254 (18.07%) 3106 (12.7%) 3029 (9.91%) 2756*  TA53 3186 (17.26%) 3122 (14.91%) 3164 (16.45%) 3055 (11.7%) 2942 (8.82%) 2217 (751%) 2717*  TA54 3266 (15.04%) 3163 (11.41%) 3310 (16.59%) 3134 (10.39%) 3012 (6.09%) 2914 (2.64%) 2839**  TA55 3232 (20.64%) 3247 (21.2%) 3259 (21.65%) 3109 (16.05%) 3065 (14.41%) 3050 (13.85%) 2679**  TA55 3378 (21.47%) 3290 (18.38%) 3144 (19.17%) 3150 (13.27%) 3081 (10.79%) 3012 (8.31%) 2781**  TA57 3471 (17.94%) 3437 (16.79%) 3504 (19.06%) 3326 (13.01%) 3249 (10.4%) 3180 (8.05%) 2943**  TA59 3381 (27.34%) 3196 (20.38%) 33303 (24.41%) 3152 (18.72%) 3025 (13.94%) 3009 (13.33%) 2655**  TA60 3352 (23.1%) 3098 (13.77%) 3201 (17.55%) 3037 (11.53%) 2932 (7.68%) 2909 (6.83%) 2723**  TA61 3654 (27.41%) 3495 (21.86%) 3622 (26.29%) 3443 (20.05%) 3221 (12.31%) 3184 (11.02%) 2868**  TA62 3722 (29.73%) 3496 (21.85%) 3615 (26.09%) 3428 (19.48%) 3747 (14.12%) 3229 (12.55%) 2869**  TA64 3631 (34.38%) 3164 (17.1%) 3332 (23.32%) 3180 (17.69%) 2933 (8.55%) 2916 (7.92%) 2702**  TA66 3555 (24.96%) 3415 (20.04%) 33505 (23.2%) 3180 (17.69%) 2933 (8.55%) 2916 (7.92%) 2702**  TA66 3555 (24.96%) 3415 (20.04%) 3505 (23.2%) 3334 (17.19%) 3144 (10.51%) 3144 (10.51%) 2845**  TA67 3567 (26.27%) 3442 (21.84%) 3640 (28.85%) 3449 (22.09%) 3148 (11.43%) 3120 (10.44%) 2825**  TA68 3680 (32.18%) 3174 (14.01%) 3374 (21.19%) 3190 (14.69%) 2999 (7.72%) 2955 (6.14%) 2705**  TA70 3643 (21.64%) 3553 (18.63%) 3718 (24.14%) 3540 (18.2%) 3338 (18.69%) 3329 (7.79%) 5359 (15.89%) 3645 (18.69%) 3501 (14.0%) 3333 (14.69%) 3590 (7.79%) 5885 (5.09%) 5771 (11.39%) 5863 (13.16%) 5556 (7.24%) 5499 (7.79%) 5885 (5.09%) 5771 (11.39%) 5863 (13.16%) 5556 (7.24%) 5499 (7.79%) 5885 (5.09%) 5790 (7.38%) 5359 (15.68%) 5599 (7.79%) 5566 (3.55%) 570 (7.38%) 5427 (1.65%) 5339**  TA71 6452 (18.08%) 6238 (14.14%) 6 |      |          |               |               |               |               |               |               |        |
| TA52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |               |               |               |               | , ,           |               |        |
| TA53 3186 (17.26%) 3122 (14.91%) 3164 (16.45%) 3035 (11.7%) 2942 (8.28%) 2921 (7.51%) 2717* TA54 3266 (15.04%) 3163 (11.41%) 3310 (16.59%) 3134 (10.39%) 3012 (6.09%) 2914 (2.64%) 2839* TA55 3232 (20.64%) 3247 (21.2%) 3259 (21.65%) 3109 (16.05%) 3065 (14.41%) 3050 (13.85%) 2679* TA56 3378 (21.47%) 3290 (18.3%) 3314 (19.17%) 3150 (13.27%) 3081 (10.79%) 3012 (8.31%) 2781* TA57 3471 (17.94%) 3437 (16.79%) 3504 (19.06%) 3326 (13.01%) 3249 (10.4%) 3180 (8.05%) 2943* TA58 3732 (29.36%) 3334 (15.56%) 3433 (18.99%) 3321 (15.11%) 3166 (9.74%) 3103 (7.56%) 2885* TA60 3352 (23.1%) 3098 (13.77%) 3201 (17.55%) 3037 (11.53%) 2932 (7.68%) 2909 (6.83%) 2723*  TA61 3654 (27.41%) 3495 (21.86%) 3622 (26.29%) 3443 (20.05%) 3221 (12.31%) 3184 (11.02%) 2868* TA62 3722 (29.73%) 3496 (21.85%) 3615 (26.09%) 3428 (19.48%) 3274 (14.12%) 3229 (12.55%) 2869* TA63 3536 (28.35%) 3232 (17.31%) 3345 (21.42%) 3163 (14.81%) 3040 (10.34%) 3040 (10.34%) 2755* TA64 3631 (34.38%) 3164 (17.1%) 3332 (23.32%) 3180 (17.69%) 2933 (8.55%) 2916 (7.92%) 2702* TA65 3359 (23.27%) 3314 (21.61%) 3334 (24.18%) 3250 (19.27%) 3140 (15.23%) 3068 (12.59%) 2725* TA66 3555 (24.96%) 3415 (20.04%) 3505 (23.2%) 3334 (17.19%) 3144 (10.51%) 3144 (10.51%) 2845* TA68 3680 (32.18%) 3174 (14.01%) 3374 (21.19%) 3193 (14.69%) 2999 (7.72%) 2955 (6.14%) 2784* TA69 3592 (16.97%) 3559 (15.89%) 3645 (18.69%) 3591 (14.09%) 3338 (8.69%) 3295 (7.29%) 3071* TA71 6452 (18.08%) 6238 (14.17%) 6384 (16.84%) 5985 (9.54%) 5798 (6.11%) 5653 (3.46%) 5464* TA73 6402 (16.06%) 6294 (16.73%) 6466 (19.92%) 6154 (14.13%) 5918 (9.76%) 5365 (3.55%) 5181* TA74 5885 (10.23%) 5859 (9.74%) 6018 (12.72%) 5727 (7.27%) 5518 (3.35%) 5427 (1.65%) 5339* TA76 6135 (14.44%) 6060 (13.44%) 6112 (14.41%) 5886 (10.18%) 5714 (6.96%) 5748 (7.6%) 5392* TA76 6135 (14.44%) 6060 (13.44%) 6112 (14.41%) 5886 (10.18%) 5714 (6.96%) 5748 (7.6%) 5392* TA76 6135 (14.44%) 6060 (13.44%) 6112 (14.41%) 5886 (10.18%) 5714 (6.96%) 5748 (7.6%) 5394* TA77 6056 (11.41%) 5935 (9.18%) 5999 (10.36%) 5716 (5.15%) 5655 (4.03%) 5588 (3.56%) 5336*  |      | TA51     | 3599 (30.4%)  | 3394 (22.97%) | 3551 (28.66%) | 3357 (21.63%) | 3303 (19.67%) | 3181 (15.25%) | 2760*  |
| TA54 3266 (15.04%) 3163 (11.41%) 3310 (16.59%) 3134 (10.39%) 3012 (6.09%) 2914 (2.64%) 2839* TA55 3232 (20.64%) 3247 (21.2%) 3259 (21.65%) 3109 (16.05%) 3065 (14.41%) 3050 (13.85%) 2679* TA56 3378 (21.47%) 3290 (18.3%) 3314 (19.17%) 3150 (13.27%) 3081 (10.79%) 3012 (8.31%) 2781* TA57 3471 (17.94%) 3437 (16.79%) 3504 (19.06%) 3326 (13.01%) 3249 (10.4%) 3180 (8.05%) 2943* TA58 3732 (29.36%) 3334 (15.56%) 3433 (18.99%) 3321 (15.11%) 3166 (9.74%) 3103 (7.56%) 2885* TA59 3381 (27.34%) 3196 (20.38%) 3303 (24.41%) 3152 (18.72%) 3025 (13.94%) 3009 (13.33%) 2655* TA60 3352 (23.1%) 3098 (13.77%) 3201 (17.55%) 3037 (11.53%) 2932 (7.68%) 2909 (6.83%) 2723*  TA61 3654 (27.41%) 3495 (21.86%) 3622 (26.29%) 3443 (20.05%) 3221 (12.31%) 3184 (11.02%) 2868* TA62 3722 (29.73%) 3496 (21.85%) 3615 (26.0%) 3428 (19.48%) 3274 (14.12%) 3229 (12.55%) 2869* TA63 3536 (28.35%) 3232 (17.31%) 3343 (21.42%) 3163 (14.81%) 3040 (10.34%) 3004 (9.04%) 2755* TA64 3631 (34.38%) 3164 (17.19%) 3332 (23.32%) 3180 (17.69%) 2933 (8.55%) 2916 (7.92%) 2702* TA65 3359 (23.27%) 3314 (21.61%) 3384 (24.18%) 3250 (19.27%) 3140 (15.23%) 3068 (12.59%) 2725* TA66 3355 (24.96%) 3415 (20.04%) 3505 (23.25%) 3334 (17.19%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 2845* TA69 3592 (16.97%) 3559 (15.89%) 3645 (18.69%) 3391 (14.69%) 2999 (7.72%) 2955 (6.14%) 2784* TA69 3592 (16.97%) 3559 (15.89%) 3645 (18.69%) 3501 (14.0%) 3338 (8.69%) 3295 (7.29%) 3071* TA71 6452 (18.08%) 6238 (14.17%) 6384 (16.84%) 5985 (9.54%) 5798 (6.11%) 5653 (3.45%) 5464* TA73 6406 (16.06%) 6294 (13.04%) 6417 (15.25%) 6054 (8.73%) 5997 (7.7%) 5885 (5.55%) 5368* TA74 5885 (10.23%) 5859 (9.74%) 6018 (12.72%) 5727 (7.27%) 5518 (3.35%) 5427 (1.65%) 5339* TA75 6056 (11.41%) 5935 (9.18%) 5999 (10.36%) 5716 (5.15%) 5655 (4.03%) 5588 (2.8%) 5345* TA76 6135 (14.48%) 6060 (13.44%) 6112 (14.41%) 5886 (10.18%) 5714 (6.96%) 5748 (7.6%) 5394* TA77 6056 (11.41%) 5935 (9.18%) 5999 (10.36%) 5716 (5.15%) 5655 (4.03%) 5588 (2.8%) 5345* TA79 5943 (10.92%) 5945 (10.96%) 5995 (11.89%) 5773 (7.75%) 5567 (3.9%) 5570 (3.2 |      |          |               |               |               |               |               | , ,           |        |
| TA55 3232 (20.64%) 3247 (21.2%) 3259 (21.65%) 3109 (16.05%) 3065 (14.41%) 3050 (13.85%) 2679* TA56 3378 (21.47%) 3390 (18.3%) 3314 (19.17%) 3150 (13.27%) 3081 (10.79%) 3012 (8.31%) 2781* TA57 3471 (17.94%) 3437 (16.79%) 3504 (19.06%) 3326 (13.01%) 3249 (10.4%) 3180 (8.05%) 2943* TA58 3732 (29.36%) 3334 (15.56%) 3433 (18.99%) 3321 (15.11%) 3166 (9.74%) 3103 (7.56%) 2885* TA59 3381 (27.34%) 3196 (20.38%) 3303 (24.41%) 3152 (18.72%) 3025 (13.94%) 3009 (13.33%) 2655* TA60 3352 (23.1%) 3098 (13.77%) 3201 (17.55%) 3037 (11.53%) 2932 (7.68%) 2909 (6.83%) 2723*  TA61 3654 (27.41%) 3495 (21.86%) 3622 (26.29%) 3443 (20.05%) 3221 (12.31%) 3184 (11.02%) 2866* TA62 3722 (29.73%) 3496 (21.85%) 3615 (26.0%) 3428 (19.48%) 3274 (14.12%) 3229 (12.55%) 2866* TA63 3536 (28.35%) 3232 (17.31%) 3345 (21.42%) 3163 (14.81%) 3040 (10.34%) 3004 (9.04%) 2755* TA64 3631 (34.38%) 3164 (17.1%) 3332 (23.32%) 3180 (17.69%) 2933 (8.55%) 2916 (7.92%) 2775* TA65 3359 (23.27%) 3314 (21.61%) 3384 (24.18%) 3250 (19.27%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) 3144 (10.51%) |      |          |               |               |               |               |               |               |        |
| TA58 3732 (29.56%) 3334 (15.56%) 3433 (18.99%) 3321 (15.11%) 3166 (0.74%) 3103 (75.56%) 2943*  TA59 3381 (27.34%) 3196 (20.38%) 3303 (24.41%) 3152 (18.72%) 3025 (13.94%) 3009 (13.33%) 2655*  TA60 3352 (23.1%) 3098 (13.77%) 3201 (17.55%) 3037 (11.53%) 2932 (7.68%) 2909 (6.83%) 2723*  TA61 3654 (27.41%) 3495 (21.86%) 3622 (26.29%) 3443 (20.05%) 3221 (12.31%) 3184 (11.02%) 2865*  TA62 3722 (29.73%) 3496 (21.85%) 3615 (26.0%) 3428 (19.48%) 3274 (14.12%) 3229 (12.55%) 2869*  TA63 3536 (28.35%) 3232 (17.31%) 3345 (21.42%) 3163 (14.81%) 3040 (10.34%) 3004 (9.04%) 2755*  TA64 3631 (34.38%) 3164 (17.1%) 3332 (23.32%) 3180 (17.69%) 2933 (8.55%) 2916 (7.92%) 2702*  TA65 3359 (23.27%) 3314 (21.61%) 3384 (24.18%) 3250 (19.27%) 3140 (15.23%) 3068 (12.59%) 2725*  TA66 3555 (24.96%) 3415 (20.04%) 3505 (23.2%) 3334 (17.19%) 3144 (10.51%) 3144 (10.51%) 2845*  TA67 3567 (26.27%) 3442 (21.84%) 3640 (28.85%) 3449 (22.09%) 3148 (11.43%) 3120 (10.44%) 2825*  TA68 3680 (32.18%) 3174 (14.01%) 3374 (21.19%) 3193 (14.69%) 2999 (7.72%) 2955 (6.14%) 2784*  TA69 3592 (16.97%) 3559 (15.89%) 3645 (18.69%) 3501 (14.0%) 33357 (12.09%) 3336 (11.39%) 2995*  TA71 6452 (18.08%) 6238 (14.17%) 6384 (16.84%) 5985 (9.54%) 5798 (6.11%) 5653 (3.46%) 5464*  TA72 5695 (9.92%) 5771 (11.39%) 5863 (13.16%) 5556 (7.24%) 5439 (4.98%) 5365 (3.55%) 5181*  TA73 6462 (16.06%) 6294 (13.04%) 6417 (15.25%) 6054 (8.73%) 5997 (7.7%) 5885 (5.69%) 5568*  TA74 5885 (10.23%) 5859 (9.74%) 6018 (12.72%) 5727 (7.27%) 5518 (3.35%) 5427 (1.65%) 5339*  TA75 6355 (17.86%) 6294 (16.73%) 6466 (19.92%) 6154 (14.13%) 5918 (9.76%) 5790 (7.38%) 5392*  TA76 6135 (14.44%) 6935 (14.44%) 6112 (14.44%) 5886 (10.18%) 5714 (6.96%) 5740 (3.36%) 5392*  TA77 6056 (11.41%) 5935 (9.18%) 5999 (10.36%) 5716 (5.15%) 5556 (3.99%) 5570 (7.38%) 5392*  TA78 6101 (13.11%) 6153 (14.07%) 6294 (16.69%) 5915 (10.14%) 5735 (6.32%) 5588 (2.8%) 5436*  TA79 5943 (10.92%) 5945 (10.96%) 5995 (11.89%) 5773 (7.75%) 5567 (3.9%) 5424 (1.23%) 5358*                                                                           | 15   |          |               |               |               |               |               |               |        |
| TA58 3732 (29.56%) 3334 (15.56%) 3433 (18.99%) 3321 (15.11%) 3166 (0.74%) 3103 (75.56%) 2943*  TA59 3381 (27.34%) 3196 (20.38%) 3303 (24.41%) 3152 (18.72%) 3025 (13.94%) 3009 (13.33%) 2655*  TA60 3352 (23.1%) 3098 (13.77%) 3201 (17.55%) 3037 (11.53%) 2932 (7.68%) 2909 (6.83%) 2723*  TA61 3654 (27.41%) 3495 (21.86%) 3622 (26.29%) 3443 (20.05%) 3221 (12.31%) 3184 (11.02%) 2865*  TA62 3722 (29.73%) 3496 (21.85%) 3615 (26.0%) 3428 (19.48%) 3274 (14.12%) 3229 (12.55%) 2869*  TA63 3536 (28.35%) 3232 (17.31%) 3345 (21.42%) 3163 (14.81%) 3040 (10.34%) 3004 (9.04%) 2755*  TA64 3631 (34.38%) 3164 (17.1%) 3332 (23.32%) 3180 (17.69%) 2933 (8.55%) 2916 (7.92%) 2702*  TA65 3359 (23.27%) 3314 (21.61%) 3384 (24.18%) 3250 (19.27%) 3140 (15.23%) 3068 (12.59%) 2725*  TA66 3555 (24.96%) 3415 (20.04%) 3505 (23.2%) 3334 (17.19%) 3144 (10.51%) 3144 (10.51%) 2845*  TA67 3567 (26.27%) 3442 (21.84%) 3640 (28.85%) 3449 (22.09%) 3148 (11.43%) 3120 (10.44%) 2825*  TA68 3680 (32.18%) 3174 (14.01%) 3374 (21.19%) 3193 (14.69%) 2999 (7.72%) 2955 (6.14%) 2784*  TA69 3592 (16.97%) 3559 (15.89%) 3645 (18.69%) 3501 (14.0%) 33357 (12.09%) 3336 (11.39%) 2995*  TA71 6452 (18.08%) 6238 (14.17%) 6384 (16.84%) 5985 (9.54%) 5798 (6.11%) 5653 (3.46%) 5464*  TA72 5695 (9.92%) 5771 (11.39%) 5863 (13.16%) 5556 (7.24%) 5439 (4.98%) 5365 (3.55%) 5181*  TA73 6462 (16.06%) 6294 (13.04%) 6417 (15.25%) 6054 (8.73%) 5997 (7.7%) 5885 (5.69%) 5568*  TA74 5885 (10.23%) 5859 (9.74%) 6018 (12.72%) 5727 (7.27%) 5518 (3.35%) 5427 (1.65%) 5339*  TA75 6355 (17.86%) 6294 (16.73%) 6466 (19.92%) 6154 (14.13%) 5918 (9.76%) 5790 (7.38%) 5392*  TA76 6135 (14.44%) 6935 (14.44%) 6112 (14.44%) 5886 (10.18%) 5714 (6.96%) 5740 (3.36%) 5392*  TA77 6056 (11.41%) 5935 (9.18%) 5999 (10.36%) 5716 (5.15%) 5556 (3.99%) 5570 (7.38%) 5392*  TA78 6101 (13.11%) 6153 (14.07%) 6294 (16.69%) 5915 (10.14%) 5735 (6.32%) 5588 (2.8%) 5436*  TA79 5943 (10.92%) 5945 (10.96%) 5995 (11.89%) 5773 (7.75%) 5567 (3.9%) 5424 (1.23%) 5358*                                                                           | × 09 |          |               |               |               |               | ,             |               |        |
| TA59 3381 (27.34%) 3196 (20.38%) 3303 (24.41%) 3152 (18.72%) 3025 (13.94%) 3009 (13.33%) 2655* TA60 3352 (23.1%) 3098 (13.77%) 3201 (17.55%) 3037 (11.53%) 2932 (7.68%) 2909 (6.83%) 2723*  TA61 3654 (27.41%) 3495 (21.86%) 3622 (26.29%) 3443 (20.05%) 3221 (12.31%) 3184 (11.02%) 2868* TA62 3722 (29.73%) 3496 (21.85%) 3615 (26.0%) 3428 (19.48%) 3274 (14.12%) 3229 (12.55%) 2869* TA63 3536 (28.35%) 3232 (17.31%) 3345 (21.42%) 3163 (14.81%) 3040 (10.34%) 3004 (9.04%) 2755* TA64 3631 (34.38%) 3164 (17.1%) 3332 (23.32%) 3180 (17.69%) 2933 (8.55%) 2916 (7.92%) 2702* TA65 3359 (23.27%) 3314 (21.61%) 3384 (24.18%) 3250 (19.27%) 3140 (15.23%) 3068 (12.59%) 2725* TA66 3555 (24.96%) 3415 (20.04%) 3505 (23.2%) 3334 (17.19%) 3144 (10.51%) 3444 (10.51%) 2845* TA66 3555 (24.96%) 3414 (20.04%) 3505 (23.2%) 3334 (17.19%) 3144 (11.43%) 3120 (10.44%) 2825* TA68 3680 (32.18%) 3174 (14.01%) 3374 (21.19%) 3193 (14.69%) 2999 (7.72%) 2955 (6.14%) 2784* TA69 3592 (16.97%) 3559 (15.89%) 3645 (18.69%) 3501 (14.0%) 3337 (12.09%) 3336 (11.39%) 2995* TA70 3643 (21.64%) 3553 (18.63%) 3718 (24.14%) 3540 (18.2%) 3357 (12.09%) 3336 (11.39%) 2995* TA71 6452 (18.08%) 6238 (14.17%) 6384 (16.84%) 5985 (9.54%) 5798 (6.11%) 5653 (3.46%) 5464* TA72 5695 (9.92%) 5771 (11.39%) 5863 (13.16%) 5556 (7.24%) 5439 (4.98%) 5365 (3.55%) 5181* TA73 6462 (16.06%) 6294 (13.04%) 6417 (15.25%) 6054 (8.73%) 5997 (7.7%) 5885 (5.09%) 5568* TA74 5885 (10.23%) 5859 (9.74%) 6018 (12.72%) 5727 (7.27%) 5518 (3.35%) 5427 (1.65%) 5339* TA75 6355 (17.86%) 6294 (16.73%) 6466 (19.92%) 6154 (14.13%) 5918 (9.76%) 5790 (7.38%) 5392* TA76 6135 (14.48%) 6060 (13.44%) 6112 (14.41%) 5886 (10.18%) 5714 (6.96%) 5748 (7.6%) 5392* TA77 6056 (11.41%) 5935 (9.18%) 5999 (10.36%) 5716 (5.15%) 5655 (4.09%) 5790 (7.38%) 5392* TA78 6101 (13.11%) 6153 (14.07%) 6294 (16.69%) 5716 (5.15%) 5556 (3.9%) 5570 (3.26%) 5394* TA79 5943 (10.92%) 5945 (10.96%) 5995 (11.89%) 5773 (7.75%) 5567 (3.9%) 5424 (12.33%) 5358*                                                                                                 |      |          |               |               |               |               |               |               |        |
| TA60 3352 (23.1%) 3098 (13.77%) 3201 (17.55%) 3037 (11.53%) 2932 (7.68%) 2909 (6.83%) 2723*  TA61 3654 (27.41%) 3495 (21.86%) 3622 (26.29%) 3443 (20.05%) 3221 (12.31%) 3184 (11.02%) 2868*  TA62 3722 (29.73%) 3496 (21.85%) 3615 (26.0%) 3428 (19.48%) 3274 (14.12%) 3229 (12.55%) 2869*  TA63 3536 (28.35%) 3232 (17.31%) 3345 (21.42%) 3163 (14.81%) 3040 (10.34%) 3040 (9.04%) 2755*  TA64 3631 (34.38%) 3164 (17.1%) 3332 (23.32%) 3180 (17.69%) 2933 (8.55%) 2916 (7.92%) 2702*  TA65 3359 (23.27%) 3314 (21.61%) 3384 (24.18%) 3250 (19.27%) 3140 (15.23%) 3068 (12.59%) 2725*  TA66 3555 (24.96%) 3415 (20.04%) 3505 (23.2%) 3334 (17.19%) 3144 (10.51%) 2845*  TA67 3567 (26.27%) 3442 (21.84%) 3640 (28.85%) 3449 (22.09%) 3148 (11.43%) 3120 (10.44%) 2825*  TA68 3680 (32.18%) 3174 (14.01%) 3374 (21.19%) 3193 (14.69%) 2999 (7.72%) 2955 (6.14%) 2784*  TA69 3592 (16.97%) 3559 (15.89%) 3645 (18.69%) 3501 (14.0%) 3338 (8.69%) 3295 (7.29%) 3071*  TA70 3643 (21.64%) 3553 (18.63%) 3718 (24.14%) 3540 (18.2%) 3357 (12.09%) 3336 (11.39%) 2995*  TA71 6452 (18.08%) 6238 (14.17%) 6384 (16.84%) 5985 (9.54%) 5798 (6.11%) 5653 (3.46%) 5464*  TA73 6402 (16.06%) 6294 (13.04%) 6417 (15.25%) 6054 (8.73%) 5997 (7.7%) 5888 (5.59%) 5568*  TA74 5885 (10.23%) 5859 (9.74%) 6018 (12.72%) 5727 (7.27%) 5518 (3.35%) 5427 (1.65%) 5339*  TA76 6135 (14.84%) 6060 (13.44%) 6112 (14.41%) 5886 (10.18%) 5714 (6.96%) 5748 (7.6%) 5392*  TA77 6056 (11.41%) 5935 (9.18%) 5999 (10.36%) 5716 (5.15%) 5655 (4.03%) 5588 (2.8%) 5436*  TA79 5943 (10.92%) 5945 (10.96%) 5995 (11.89%) 5773 (7.75%) 5567 (3.9%) 5424 (12.3%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |               |               |               |               |               |               |        |
| TA62 3722 (29,73%) 3496 (21,85%) 3615 (26,0%) 3428 (19,48%) 3274 (14,12%) 3229 (12,55%) 28,69% TA63 3536 (28,35%) 3232 (17,31%) 3345 (21,42%) 3163 (14,81%) 3040 (10,34%) 3004 (9,04%) 2755% TA64 3631 (34,38%) 3164 (17,19%) 3332 (23,32%) 3180 (17,69%) 2933 (8,55%) 2916 (7,92%) 2702% TA65 3359 (23,27%) 3314 (21,61%) 3384 (24,18%) 3250 (19,27%) 3140 (15,23%) 3068 (12,59%) 2725% TA66 3555 (24,96%) 3415 (20,04%) 3505 (23,22%) 3334 (17,19%) 3144 (10,51%) 3144 (10,51%) 3444 (10,51%) 3467 3567 (26,27%) 3442 (21,84%) 3640 (28,85%) 3449 (22,09%) 3148 (11,43%) 3120 (10,44%) 825% TA68 3680 (32,18%) 3174 (14,01%) 3374 (21,19%) 3193 (14,69%) 2999 (7,72%) 2955 (6,14%) 2784% TA69 3592 (16,97%) 3559 (15,89%) 3645 (18,69%) 3501 (14,0%) 3338 (8,69%) 3295 (7,29%) 3071% TA70 3643 (21,64%) 3553 (18,63%) 3718 (24,14%) 3540 (18,2%) 3357 (12,09%) 3336 (11,39%) 2995% TA71 6452 (18,08%) 6238 (14,17%) 6384 (16,84%) 5985 (9,54%) 5798 (6,11%) 5653 (3,46%) 5464% TA73 6462 (16,06%) 6294 (13,04%) 6417 (15,25%) 6054 (8,73%) 5997 (7,7%) 5885 (5,59%) 5568% TA74 5885 (10,23%) 5859 (9,74%) 6018 (12,72%) 5727 (7,27%) 5518 (3,35%) 5427 (1,65%) 5339% TA75 6355 (13,86%) 6294 (16,73%) 6466 (19,92%) 6154 (14,13%) 5918 (9,76%) 5790 (7,38%) 5392% TA77 6056 (11,41%) 5935 (9,18%) 5999 (10,36%) 5716 (5,15%) 5655 (4,03%) 5570 (3,26%) 5394% TA79 5943 (10,92%) 5945 (10,96%) 5995 (11,89%) 5773 (7,75%) 5567 (3,9%) 5424 (12,3%) 5398% TA79 5943 (10,92%) 5945 (10,96%) 5995 (11,89%) 5773 (7,75%) 5567 (3,9%) 5424 (12,3%) 5398%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |               |               |               |               |               |               | 2723*  |
| TA63 3536 (28.35%) 3232 (17.31%) 3345 (21.42%) 3163 (14.81%) 3040 (10.34%) 3004 (9.04%) 2755* TA64 3631 (34.38%) 3164 (17.1%) 3332 (23.32%) 3180 (17.69%) 2933 (8.55%) 2916 (7.92%) 2702* TA65 3359 (23.27%) 3314 (21.61%) 3384 (24.18%) 3509 (19.27%) 3140 (15.23%) 3068 (12.59%) 2725* TA66 3555 (24.96%) 3415 (20.04%) 3505 (23.2%) 3334 (17.19%) 3144 (10.51%) 3144 (10.51%) 2845* TA67 3567 (26.27%) 3442 (21.84%) 3640 (28.85%) 3449 (22.09%) 3148 (11.43%) 3120 (10.44%) 2825* TA68 3680 (32.18%) 3174 (14.01%) 3374 (21.19%) 3193 (14.69%) 2999 (7.72%) 2955 (6.14%) 2784* TA69 3592 (16.97%) 3559 (15.89%) 3645 (18.69%) 3501 (14.0%) 3338 (8.69%) 3295 (7.29%) 3071* TA70 3643 (21.64%) 3553 (18.63%) 3718 (24.14%) 3540 (18.2%) 3357 (12.09%) 3336 (11.39%) 2995*  TA71 6452 (18.08%) 6238 (14.17%) 6384 (16.84%) 5985 (9.54%) 5798 (6.11%) 5653 (3.46%) 5464* TA72 5695 (9.92%) 5771 (11.39%) 5863 (13.16%) 5556 (7.24%) 5439 (4.98%) 5365 (3.55%) 5181* TA73 6462 (16.06%) 6294 (13.04%) 6417 (15.25%) 6054 (8.73%) 5997 (7.7%) 5885 (5.69%) 5568* TA74 5885 (10.23%) 5889 (9.74%) 6018 (12.72%) 5727 (7.27%) 5518 (3.35%) 5427 (1.65%) 5339* TA75 6355 (17.86%) 6294 (16.73%) 6466 (19.92%) 6154 (14.13%) 5918 (9.76%) 5790 (7.38%) 5392* TA76 6135 (14.88%) 6006 (13.44%) 6112 (14.41%) 5886 (10.18%) 5714 (6.96%) 5748 (7.6%) 5394* TA77 6056 (11.41%) 5935 (9.18%) 5999 (10.66%) 5716 (5.15%) 5655 (4.03%) 5588 (2.8%) 5426* TA78 6101 (13.11%) 6153 (14.07%) 6294 (16.69%) 5716 (5.15%) 5556 (3.9%) 5550 (3.26%) 5394* TA79 5943 (10.92%) 5945 (10.96%) 5995 (11.89%) 5773 (7.75%) 5567 (3.9%) 5424 (12.3%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | TA61     | 3654 (27.41%) | 3495 (21.86%) | 3622 (26.29%) | 3443 (20.05%) | 3221 (12.31%) | 3184 (11.02%) | 2868*  |
| TA64 3631 (34.38%) 3164 (17.1%) 3332 (23.32%) 3180 (17.69%) 2933 (8.55%) 2916 (7.92%) 2702* TA65 3359 (23.27%) 3314 (21.61%) 3384 (24.18%) 3250 (19.27%) 3140 (15.23%) 3068 (12.59%) 2725* TA66 3555 (24.96%) 3415 (20.04%) 3505 (23.2%) 3334 (17.19%) 3144 (10.51%) 3144 (10.51%) 2845* TA67 3567 (26.27%) 3442 (21.84%) 3640 (28.85%) 3449 (22.09%) 3148 (11.43%) 3120 (10.44%) 2825* TA68 3680 (32.18%) 3174 (14.01%) 3374 (21.19%) 3193 (14.69%) 2999 (7.72%) 2955 (6.14%) 2784* TA69 3592 (16.97%) 3559 (15.89%) 3645 (18.69%) 3501 (14.0%) 3338 (8.69%) 3295 (7.29%) 3071* TA70 3643 (21.64%) 3553 (18.63%) 3718 (24.14%) 3540 (18.2%) 3357 (12.09%) 3336 (11.39%) 2995*  TA71 6452 (18.08%) 6238 (14.17%) 6384 (16.84%) 5985 (9.54%) 5798 (6.11%) 5653 (3.46%) 5464* TA72 5695 (9.92%) 5771 (11.39%) 5863 (13.16%) 5556 (7.24%) 5439 (4.98%) 5365 (3.55%) 5181* TA73 6462 (16.06%) 6294 (13.04%) 6417 (15.25%) 6054 (8.73%) 5997 (7.7%) 5885 (5.69%) 5568* TA74 5885 (10.23%) 5859 (9.74%) 6018 (12.72%) 5727 (7.27%) 5518 (3.35%) 5427 (1.65%) 5339* TA76 6135 (14.84%) 6060 (13.44%) 6412 (14.41%) 5886 (10.18%) 5714 (6.96%) 5790 (7.38%) 5392* TA77 6056 (11.41%) 5935 (9.18%) 5999 (10.36%) 5716 (5.15%) 5655 (4.03%) 5588 (2.8%) 5394* TA78 6101 (13.11%) 6153 (14.07%) 6294 (16.69%) 5716 (5.15%) 5556 (3.9%) 5570 (3.26%) 5394* TA79 5943 (10.92%) 5945 (10.96%) 5995 (11.89%) 5773 (7.75%) 5567 (3.9%) 5424 (12.3%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |               |               |               |               |               |               | 2869*  |
| X         TA65         3359 (23.27%)         3314 (21.61%)         3384 (24.18%)         3250 (19.27%)         3140 (15.23%)         3068 (12.59%)         2725*           TA66         3555 (24.96%)         3415 (20.04%)         3505 (23.2%)         3334 (17.19%)         3144 (10.51%)         3144 (10.51%)         3144 (10.51%)         2845*           TA67         3567 (26.27%)         3442 (21.84%)         3640 (28.85%)         3449 (22.09%)         3148 (11.43%)         3120 (10.44%)         2825*           TA68         3680 (32.18%)         3174 (14.01%)         3374 (21.19%)         3193 (14.69%)         2999 (7.72%)         2955 (6.14%)         2784*           TA69         3592 (16.97%)         3559 (15.89%)         3645 (18.69%)         3501 (14.0%)         3338 (8.69%)         3295 (7.29%)         3071*           TA70         3643 (21.64%)         3553 (18.63%)         3718 (24.14%)         3540 (18.2%)         3357 (12.09%)         3336 (11.39%)         2995*           TA71         6452 (18.08%)         6238 (14.17%)         6384 (16.84%)         5985 (9.54%)         5798 (6.11%)         5653 (3.45%)         5464*           TA73         6462 (16.06%)         6294 (13.04%)         6417 (15.25%)         6054 (8.73%)         5997 (7.7%)         5885 (5.69%)         5568*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |               |               |               |               |               |               |        |
| TA67 3567 (26.27%) 3442 (21.84%) 3640 (28.85%) 3449 (22.09%) 3148 (11.43%) 3120 (10.44%) 2825* TA68 3680 (32.18%) 3174 (14.01%) 3374 (21.19%) 3193 (14.69%) 2999 (7.72%) 2955 (6.14%) 2784* TA69 3592 (16.97%) 3559 (15.89%) 3645 (18.69%) 3501 (14.0%) 3338 (8.69%) 3295 (7.29%) 3071* TA70 3643 (21.64%) 3553 (18.63%) 3718 (24.14%) 3540 (18.2%) 3357 (12.09%) 3336 (11.39%) 2995*  TA71 6452 (18.08%) 6238 (14.17%) 6384 (16.84%) 5985 (9.54%) 5798 (6.11%) 5653 (3.46%) 5464* TA72 5695 (9.92%) 5771 (11.39%) 5863 (13.16%) 5556 (7.24%) 5439 (4.98%) 5365 (3.55%) 5181* TA73 6462 (16.06%) 6294 (13.04%) 6417 (15.25%) 6054 (8.73%) 5997 (7.7%) 5885 (5.69%) 5568* TA74 5885 (10.23%) 5889 (9.74%) 6018 (12.72%) 5712 (7.27%) 5518 (3.35%) 5427 (1.65%) 5339* TA75 6355 (17.86%) 6294 (16.73%) 6466 (19.92%) 6154 (14.13%) 5918 (9.76%) 5790 (7.38%) 5392* TA76 6135 (14.84%) 6060 (13.44%) 6112 (14.41%) 5886 (10.18%) 5714 (6.96%) 5748 (7.6%) 5342* TA77 6056 (11.41%) 5935 (9.18%) 5999 (10.36%) 5716 (5.15%) 5655 (4.03%) 5588 (2.8%) 5436* TA79 5943 (10.92%) 5945 (10.96%) 5995 (11.89%) 5773 (7.75%) 5567 (3.9%) 5424 (1.23%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | :20  |          |               |               |               |               |               |               | 2702** |
| TA67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 50×  | TA66     |               |               |               |               | 3144 (10.51%) |               | 2845*  |
| TA69 3592 (16.97%) 3559 (15.89%) 3645 (18.69%) 3501 (14.0%) 3338 (8.69%) 3295 (7.29%) 3071*  TA70 3643 (21.64%) 3553 (18.63%) 3718 (24.14%) 3540 (18.2%) 3357 (12.09%) 3336 (11.39%) 2995*  TA71 6452 (18.08%) 6238 (14.17%) 6384 (16.84%) 5985 (9.54%) 5798 (6.11%) 5653 (3.46%) 5464*  TA72 5695 (9.92%) 5771 (11.39%) 5863 (13.16%) 5556 (7.24%) 5439 (4.98%) 5365 (3.55%) 5181*  TA73 6462 (16.06%) 6294 (13.04%) 6417 (15.25%) 6054 (8.73%) 5997 (7.7%) 5885 (5.69%) 5568*  TA74 5885 (10.23%) 5889 (9.74%) 6018 (12.72%) 5727 (7.27%) 5518 (3.35%) 5427 (1.65%) 5339*  TA75 6355 (17.86%) 6294 (16.73%) 6466 (19.92%) 6154 (14.13%) 5918 (9.76%) 5790 (7.38%) 5392*  TA76 6135 (14.84%) 6060 (13.44%) 6112 (14.41%) 5886 (10.18%) 5714 (6.96%) 5748 (7.6%) 5342*  TA77 6056 (11.41%) 5935 (9.18%) 5999 (10.36%) 5716 (5.15%) 5655 (4.03%) 5588 (2.8%) 5436*  TA78 6101 (13.11%) 6153 (14.07%) 6294 (16.69%) 5941 (10.14%) 5735 (6.32%) 5570 (3.26%) 5394*  TA79 5943 (10.92%) 5945 (10.96%) 5995 (11.89%) 5773 (7.75%) 5567 (3.9%) 5424 (1.23%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |               |               |               |               |               |               | 2825*  |
| TA70 3643 (21.64%) 3553 (18.63%) 3718 (24.14%) 3540 (18.2%) 3357 (12.09%) 3336 (11.39%) 2995*  TA71 6452 (18.08%) 6238 (14.17%) 6384 (16.84%) 5985 (9.54%) 5798 (6.11%) 5653 (3.46%) 5464*  TA72 5695 (9.92%) 5771 (11.39%) 5863 (13.16%) 5556 (7.24%) 5439 (4.98%) 5365 (3.55%) 5181*  TA73 6462 (16.06%) 6294 (13.04%) 6417 (15.25%) 6054 (8.73%) 5997 (7.7%) 5888 (5.69%) 5568*  TA74 5885 (10.23%) 5889 (9.74%) 6018 (12.72%) 5727 (7.27%) 5518 (3.35%) 5427 (1.65%) 5339*  TA75 6355 (17.86%) 6294 (16.73%) 6466 (19.92%) 6154 (14.13%) 5918 (9.76%) 5790 (7.38%) 5392*  TA76 6135 (14.84%) 6060 (13.44%) 6112 (14.41%) 5886 (10.18%) 5714 (6.96%) 5748 (7.6%) 5342*  TA77 6056 (11.41%) 5935 (9.18%) 5999 (10.36%) 5716 (5.15%) 5655 (4.03%) 5588 (2.8%) 5439*  TA79 5943 (10.92%) 5945 (10.96%) 5995 (11.89%) 5773 (7.75%) 5567 (3.9%) 5424 (12.3%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |               |               |               |               |               |               |        |
| TA72 5695 (9.92%) 5771 (11.39%) 5863 (13.16%) 5556 (7.24%) 5439 (4.98%) 5365 (3.55%) 5181*  TA73 6462 (16.06%) 6294 (13.04%) 6417 (15.25%) 6054 (8.73%) 5997 (7.7%) 5885 (5.69%) 5568*  TA74 5885 (10.23%) 5859 (9.74%) 6018 (12.72%) 5727 (7.27%) 5518 (3.35%) 5427 (1.65%) 5339*  TA75 6355 (17.86%) 6294 (16.73%) 6466 (19.92%) 6154 (14.13%) 5918 (9.76%) 5790 (7.38%) 5392*  TA76 6135 (14.84%) 6060 (13.44%) 6112 (14.41%) 5886 (10.18%) 5714 (6.96%) 5748 (7.6%) 5342*  TA77 6056 (11.41%) 5935 (9.18%) 5999 (10.36%) 5716 (5.15%) 5655 (4.03%) 5588 (2.8%) 5436*  TA78 6101 (13.11%) 6153 (14.07%) 6294 (16.69%) 5741 (10.14%) 5735 (6.32%) 5570 (3.26%) 5394*  TA79 5943 (10.92%) 5945 (10.96%) 5995 (11.89%) 5773 (7.75%) 5567 (3.9%) 5424 (12.3%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |               |               |               |               |               |               | 2995*  |
| TA73 6462 (16.06%) 6294 (13.04%) 6417 (15.25%) 6054 (8.73%) 5997 (7.7%) 5885 (5.69%) 5568*  TA74 5885 (10.23%) 5859 (9.74%) 6018 (12.72%) 5727 (7.27%) 5518 (3.35%) 5427 (1.65%) 5339*  X TA75 6355 (17.86%) 6294 (16.73%) 6466 (19.92%) 6154 (14.13%) 5918 (9.76%) 5790 (7.38%) 5392*  TA76 6135 (14.84%) 6060 (13.44%) 6112 (14.41%) 5886 (10.18%) 5714 (6.96%) 5748 (7.6%) 5342*  TA77 6056 (11.41%) 5935 (9.18%) 5999 (10.36%) 5716 (5.15%) 5655 (4.03%) 5888 (2.8%) 5436*  TA78 6101 (13.11%) 6153 (14.07%) 6294 (16.69%) 5941 (10.41%) 5735 (6.32%) 5570 (3.26%) 5394*  TA79 5943 (10.92%) 5945 (10.96%) 5995 (11.89%) 5773 (7.75%) 5567 (3.9%) 5424 (12.3%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |          |               |               |               |               |               | , ,           | 5464*  |
| Page 1         TA74         5885 (10.23%)         5859 (9.74%)         6018 (12.72%)         5727 (7.27%)         5518 (3.35%)         5427 (1.65%)         5339*           Name 1         TA75         6355 (17.86%)         6294 (16.73%)         6466 (19.92%)         6154 (14.13%)         5918 (9.76%)         5790 (7.38%)         5392*           Name 2         TA76         6135 (14.84%)         6060 (13.44%)         6112 (14.41%)         5886 (10.18%)         5714 (6.96%)         5748 (7.6%)         5342*           TA77         6056 (11.41%)         5935 (9.18%)         5999 (10.36%)         5716 (5.15%)         5655 (4.03%)         5588 (2.8%)         5436*           TA78         6101 (13.11%)         6153 (14.07%)         6294 (16.69%)         5941 (10.14%)         5735 (6.32%)         5570 (3.26%)         5394*           TA79         5943 (10.92%)         5945 (10.96%)         5995 (11.89%)         5773 (7.75%)         5567 (3.9%)         5424 (1.23%)         5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |               |               |               |               |               |               |        |
| X     TA75     6355 (17.86%)     6294 (16.73%)     6466 (19.92%)     6154 (14.13%)     5918 (9.76%)     5790 (7.38%)     5392*       B     TA76     6135 (14.84%)     6060 (13.44%)     6112 (14.41%)     5886 (10.18%)     5714 (6.96%)     5748 (7.6%)     5342*       TA77     6056 (11.41%)     5935 (9.18%)     5999 (10.36%)     5716 (5.15%)     5655 (4.03%)     5588 (2.8%)     5436*       TA78     6101 (13.11%)     6153 (14.07%)     6294 (16.69%)     5941 (10.14%)     5735 (6.32%)     5570 (3.26%)     5394*       TA79     5943 (10.92%)     5945 (10.96%)     5995 (11.89%)     5773 (7.75%)     5567 (3.9%)     5424 (1.23%)     5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | _    |          |               |               |               |               |               | , ,           |        |
| TA77 6056 (11.41%) 5955 (9.18%) 5999 (10.36%) 5716 (5.15%) 5655 (4.05%) 5588 (2.8%) 5436*  TA78 6101 (13.11%) 6153 (14.07%) 6294 (16.69%) 5941 (10.4%) 5735 (6.32%) 5570 (3.26%) 5394*  TA79 5943 (10.92%) 5945 (10.96%) 5995 (11.89%) 5773 (7.75%) 5567 (3.9%) 5424 (1.23%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | × 20 |          |               |               |               |               |               |               | 5392*  |
| TA77 6056 (11.41%) 5935 (9.18%) 5999 (10.36%) 5716 (5.15%) 5653 (4.03%) 5588 (2.8%) 5436*  TA78 6101 (13.11%) 6153 (14.07%) 6294 (16.69%) 5941 (10.44%) 5735 (6.32%) 5570 (3.26%) 5394*  TA79 5943 (10.92%) 5945 (10.96%) 5995 (11.89%) 5773 (7.75%) 5567 (3.9%) 5424 (1.23%) 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 90   |          |               |               |               |               |               |               | 5342*  |
| TA79 5943 (10.92%) 5945 (10.96%) 5995 (11.89%) 5773 (7.75%) 5567 (3.9%) <b>5424 (1.23%)</b> 5358*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |          |               |               |               |               |               |               |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |               |               |               |               |               |               | 5358*  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |               |               |               |               |               |               |        |

Table 11: Results on Taillard's benchmark.

|               | Instance                                                                                                                                                      | SPT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FDD/WKR                                                                                                                                                                                                                                                                                                                                                                                      | MWKR                                                                                                                                                                                                                                                                                                                                                                                                                | MOPNR                                                                                                                                                                                                                                                                                                                                                                 | Zhang et al.                                                                                                                                                                                                                                                                                                                                                                                                       | ACL                                                                                                                                                                                                                                                                                                                                                                    | UB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | TA1                                                                                                                                                           | 1462 (18.77%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1841 (49.55%)                                                                                                                                                                                                                                                                                                                                                                                | 1491 (21.12%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1438 (16.82%)                                                                                                                                                                                                                                                                                                                                                         | 1443 (17.22%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1379 (12.02%)                                                                                                                                                                                                                                                                                                                                                          | 1231*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA2                                                                                                                                                           | 1446 (16.24%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1895 (52.33%)                                                                                                                                                                                                                                                                                                                                                                                | 1440 (15.76%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1452 (16.72%)                                                                                                                                                                                                                                                                                                                                                         | 1544 (24.12%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1325 (6.51%)                                                                                                                                                                                                                                                                                                                                                           | 1244*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA3                                                                                                                                                           | 1495 (22.74%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1914 (57.14%)                                                                                                                                                                                                                                                                                                                                                                                | 1426 (17.08%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1418 (16.42%)                                                                                                                                                                                                                                                                                                                                                         | 1440 (18.23%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1338 (9.85%)                                                                                                                                                                                                                                                                                                                                                           | 1218*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               |                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 5             | TA4                                                                                                                                                           | 1708 (45.36%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1653 (40.68%)                                                                                                                                                                                                                                                                                                                                                                                | 1387 (18.04%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1457 (24.0%)                                                                                                                                                                                                                                                                                                                                                          | 1637 (39.32%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1275 (8.51%)                                                                                                                                                                                                                                                                                                                                                           | 1175*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 15×15         | TA5                                                                                                                                                           | 1618 (32.19%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1787 (46.0%)                                                                                                                                                                                                                                                                                                                                                                                 | 1494 (22.06%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1448 (18.3%)                                                                                                                                                                                                                                                                                                                                                          | 1619 (32.27%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1303 (6.45%)                                                                                                                                                                                                                                                                                                                                                           | 1224*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 15            | TA6                                                                                                                                                           | 1522 (22.94%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1748 (41.2%)                                                                                                                                                                                                                                                                                                                                                                                 | 1369 (10.58%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1486 (20.03%)                                                                                                                                                                                                                                                                                                                                                         | 1601 (29.32%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1325 (7.03%)                                                                                                                                                                                                                                                                                                                                                           | 1238*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA7                                                                                                                                                           | 1434 (16.87%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1660 (35.29%)                                                                                                                                                                                                                                                                                                                                                                                | 1470 (19.8%)                                                                                                                                                                                                                                                                                                                                                                                                        | 1456 (18.66%)                                                                                                                                                                                                                                                                                                                                                         | 1568 (27.79%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1332 (8.56%)                                                                                                                                                                                                                                                                                                                                                           | 1227*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA8                                                                                                                                                           | 1457 (19.72%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1803 (48.15%)                                                                                                                                                                                                                                                                                                                                                                                | 1491 (22.51%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1482 (21.77%)                                                                                                                                                                                                                                                                                                                                                         | 1468 (20.62%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1325 (8.87%)                                                                                                                                                                                                                                                                                                                                                           | 1217*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA9                                                                                                                                                           | 1622 (27.32%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1848 (45.05%)                                                                                                                                                                                                                                                                                                                                                                                | 1541 (20.96%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1594 (25.12%)                                                                                                                                                                                                                                                                                                                                                         | 1627 (27.71%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1412 (10.83%)                                                                                                                                                                                                                                                                                                                                                          | 1274*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA10                                                                                                                                                          | 1697 (36.74%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1937 (56.08%)                                                                                                                                                                                                                                                                                                                                                                                | 1534 (23.61%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1582 (27.48%)                                                                                                                                                                                                                                                                                                                                                         | 1527 (23.05%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1384 (11.52%)                                                                                                                                                                                                                                                                                                                                                          | 1241*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA11                                                                                                                                                          | 1865 (37.44%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2101 (54.83%)                                                                                                                                                                                                                                                                                                                                                                                | 1685 (24.17%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1665 (22.7%)                                                                                                                                                                                                                                                                                                                                                          | 1794 (32.2%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1506 (10.98%)                                                                                                                                                                                                                                                                                                                                                          | 1357*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA12                                                                                                                                                          | 1667 (21.95%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2034 (48.79%)                                                                                                                                                                                                                                                                                                                                                                                | 1707 (24.87%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1739 (27.21%)                                                                                                                                                                                                                                                                                                                                                         | 1805 (32.04%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1514 (10.75%)                                                                                                                                                                                                                                                                                                                                                          | 1367*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA13                                                                                                                                                          | 1802 (34.18%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2141 (59.42%)                                                                                                                                                                                                                                                                                                                                                                                | 1690 (25.84%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1642 (22.26%)                                                                                                                                                                                                                                                                                                                                                         | 1932 (43.86%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1510 (12.43%)                                                                                                                                                                                                                                                                                                                                                          | 1343*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA14                                                                                                                                                          | 1635 (21.56%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1841 (36.88%)                                                                                                                                                                                                                                                                                                                                                                                | 1563 (16.21%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1662 (23.57%)                                                                                                                                                                                                                                                                                                                                                         | 1664 (23.72%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1455 (8.18%)                                                                                                                                                                                                                                                                                                                                                           | 1345*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 20×15         | TA15                                                                                                                                                          | 1835 (37.04%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2187 (63.33%)                                                                                                                                                                                                                                                                                                                                                                                | 1696 (26.66%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1682 (25.62%)                                                                                                                                                                                                                                                                                                                                                         | 1730 (29.2%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1516 (13.22%)                                                                                                                                                                                                                                                                                                                                                          | 1339*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ×             | TA16                                                                                                                                                          | 1965 (44.49%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1926 (41.62%)                                                                                                                                                                                                                                                                                                                                                                                | 1584 (16.47%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1638 (20.44%)                                                                                                                                                                                                                                                                                                                                                         | 1710 (25.74%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1485 (9.19%)                                                                                                                                                                                                                                                                                                                                                           | 1360*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2             | TA17                                                                                                                                                          | 2059 (40.83%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2093 (43.16%)                                                                                                                                                                                                                                                                                                                                                                                | 1804 (23.39%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1856 (26.95%)                                                                                                                                                                                                                                                                                                                                                         | 1897 (29.75%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1614 (10.4%)                                                                                                                                                                                                                                                                                                                                                           | 1462*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA18                                                                                                                                                          | 1808 (29.51%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2064 (47.85%)                                                                                                                                                                                                                                                                                                                                                                                | 1751 (25.43%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1710 (22.49%)                                                                                                                                                                                                                                                                                                                                                         | 1794 (28.51%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1560 (11.75%)                                                                                                                                                                                                                                                                                                                                                          | 1396*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA19                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                    | 1451 (8.93%)                                                                                                                                                                                                                                                                                                                                                           | 1332*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA20                                                                                                                                                          | 1789 (34.31%)<br>1710 (26.85%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1958 (47.0%)<br>2195 (62.83%)                                                                                                                                                                                                                                                                                                                                                                | 1667 (25.15%)<br>1689 (25.3%)                                                                                                                                                                                                                                                                                                                                                                                       | 1651 (23.95%)<br>1622 (20.33%)                                                                                                                                                                                                                                                                                                                                        | 1682 (26.28%)<br>1739 (29.01%)                                                                                                                                                                                                                                                                                                                                                                                     | 1482 (9.94%)                                                                                                                                                                                                                                                                                                                                                           | 1348*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               |                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | TA21<br>TA22                                                                                                                                                  | 2175 (32.46%)<br>1965 (22.81%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2455 (49.51%)<br>2177 (36.06%)                                                                                                                                                                                                                                                                                                                                                               | 2044 (24.48%)<br>1914 (19.62%)                                                                                                                                                                                                                                                                                                                                                                                      | 1964 (19.61%)<br>1905 (19.06%)                                                                                                                                                                                                                                                                                                                                        | 2252 (37.15%)<br>2102 (31.37%)                                                                                                                                                                                                                                                                                                                                                                                     | 1838 (11.94%)<br>1752 (9.5%)                                                                                                                                                                                                                                                                                                                                           | 1642*<br>1600*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|               | TA23                                                                                                                                                          | 1933 (24.15%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2514 (61.46%)                                                                                                                                                                                                                                                                                                                                                                                | 1983 (27.36%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1922 (23.44%)                                                                                                                                                                                                                                                                                                                                                         | 2085 (33.91%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1748 (12.27%)                                                                                                                                                                                                                                                                                                                                                          | 1557*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               |                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2391 (45.44%)                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                    | 1807 (9.91%)                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 20            | TA24                                                                                                                                                          | 2230 (35.64%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                              | 1982 (20.56%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1943 (18.19%)                                                                                                                                                                                                                                                                                                                                                         | 2200 (33.82%)                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                        | 1644*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 20×20         | TA25                                                                                                                                                          | 1950 (22.26%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2267 (42.13%)                                                                                                                                                                                                                                                                                                                                                                                | 1941 (21.69%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1957 (22.7%)                                                                                                                                                                                                                                                                                                                                                          | 2201 (37.99%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1772 (11.1%)                                                                                                                                                                                                                                                                                                                                                           | 1595*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 20            | TA26                                                                                                                                                          | 2188 (33.17%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2644 (60.93%)                                                                                                                                                                                                                                                                                                                                                                                | 1951 (18.75%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1964 (19.54%)                                                                                                                                                                                                                                                                                                                                                         | 2176 (32.44%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1802 (9.68%)                                                                                                                                                                                                                                                                                                                                                           | 1643*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA27                                                                                                                                                          | 2096 (24.76%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2514 (49.64%)                                                                                                                                                                                                                                                                                                                                                                                | 2091 (24.46%)                                                                                                                                                                                                                                                                                                                                                                                                       | 2160 (28.57%)                                                                                                                                                                                                                                                                                                                                                         | 2132 (26.9%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1895 (12.8%)                                                                                                                                                                                                                                                                                                                                                           | 1680*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA28                                                                                                                                                          | 1968 (22.77%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2330 (45.35%)                                                                                                                                                                                                                                                                                                                                                                                | 1997 (24.58%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1952 (21.77%)                                                                                                                                                                                                                                                                                                                                                         | 2146 (33.87%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1788 (11.54%)                                                                                                                                                                                                                                                                                                                                                          | 1603*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA29                                                                                                                                                          | 2166 (33.29%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2232 (37.35%)                                                                                                                                                                                                                                                                                                                                                                                | 1860 (14.46%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1899 (16.86%)                                                                                                                                                                                                                                                                                                                                                         | 1952 (20.12%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1753 (7.88%)                                                                                                                                                                                                                                                                                                                                                           | 1625*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA30                                                                                                                                                          | 1999 (26.2%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2348 (48.23%)                                                                                                                                                                                                                                                                                                                                                                                | 1935 (22.16%)                                                                                                                                                                                                                                                                                                                                                                                                       | 2017 (27.34%)                                                                                                                                                                                                                                                                                                                                                         | 2035 (28.47%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1776 (12.12%)                                                                                                                                                                                                                                                                                                                                                          | 1584*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA31                                                                                                                                                          | 2335 (32.37%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2459 (39.4%)                                                                                                                                                                                                                                                                                                                                                                                 | 2134 (20.98%)                                                                                                                                                                                                                                                                                                                                                                                                       | 2143 (21.49%)                                                                                                                                                                                                                                                                                                                                                         | 2565 (45.41%)                                                                                                                                                                                                                                                                                                                                                                                                      | 2028 (14.97%)                                                                                                                                                                                                                                                                                                                                                          | 1764*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA32                                                                                                                                                          | 2432 (36.32%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2672 (49.78%)                                                                                                                                                                                                                                                                                                                                                                                | 2223 (24.61%)                                                                                                                                                                                                                                                                                                                                                                                                       | 2188 (22.65%)                                                                                                                                                                                                                                                                                                                                                         | 2388 (33.86%)                                                                                                                                                                                                                                                                                                                                                                                                      | 2092 (17.26%)                                                                                                                                                                                                                                                                                                                                                          | 1784*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA33                                                                                                                                                          | 2453 (36.96%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2766 (54.44%)                                                                                                                                                                                                                                                                                                                                                                                | 2349 (31.16%)                                                                                                                                                                                                                                                                                                                                                                                                       | 2308 (28.87%)                                                                                                                                                                                                                                                                                                                                                         | 2324 (29.76%)                                                                                                                                                                                                                                                                                                                                                                                                      | 2114 (18.03%)                                                                                                                                                                                                                                                                                                                                                          | 1791*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 10            | TA34                                                                                                                                                          | 2434 (33.15%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2669 (46.01%)                                                                                                                                                                                                                                                                                                                                                                                | 2245 (22.81%)                                                                                                                                                                                                                                                                                                                                                                                                       | 2193 (19.97%)                                                                                                                                                                                                                                                                                                                                                         | 2332 (27.57%)                                                                                                                                                                                                                                                                                                                                                                                                      | 2077 (13.62%)                                                                                                                                                                                                                                                                                                                                                          | 1828*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 30×15         | TA35                                                                                                                                                          | 2497 (24.41%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2525 (25.81%)                                                                                                                                                                                                                                                                                                                                                                                | 2226 (10.91%)                                                                                                                                                                                                                                                                                                                                                                                                       | 2255 (12.36%)                                                                                                                                                                                                                                                                                                                                                         | 2505 (24.81%)                                                                                                                                                                                                                                                                                                                                                                                                      | 2103 (4.78%)                                                                                                                                                                                                                                                                                                                                                           | 2007*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ô             | TA36                                                                                                                                                          | 2445 (34.41%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2690 (47.88%)                                                                                                                                                                                                                                                                                                                                                                                | 2365 (30.02%)                                                                                                                                                                                                                                                                                                                                                                                                       | 2307 (26.83%)                                                                                                                                                                                                                                                                                                                                                         | 2497 (37.27%)                                                                                                                                                                                                                                                                                                                                                                                                      | 2046 (12.48%)                                                                                                                                                                                                                                                                                                                                                          | 1819*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| $\mathcal{C}$ | TA37                                                                                                                                                          | 2664 (50.42%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2492 (40.71%)                                                                                                                                                                                                                                                                                                                                                                                | 2130 (20.27%)                                                                                                                                                                                                                                                                                                                                                                                                       | 2190 (23.66%)                                                                                                                                                                                                                                                                                                                                                         | 2325 (31.28%)                                                                                                                                                                                                                                                                                                                                                                                                      | 2080 (17.45%)                                                                                                                                                                                                                                                                                                                                                          | 1771*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA38                                                                                                                                                          | 2155 (28.81%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2425 (44.95%)                                                                                                                                                                                                                                                                                                                                                                                | 2050 (22.53%)                                                                                                                                                                                                                                                                                                                                                                                                       | 2179 (30.25%)                                                                                                                                                                                                                                                                                                                                                         | 2302 (37.6%)                                                                                                                                                                                                                                                                                                                                                                                                       | 1882 (12.49%)                                                                                                                                                                                                                                                                                                                                                          | 1673*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA39                                                                                                                                                          | 2477 (37.99%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2596 (44.62%)                                                                                                                                                                                                                                                                                                                                                                                | 2221 (23.73%)                                                                                                                                                                                                                                                                                                                                                                                                       | 2167 (20.72%)                                                                                                                                                                                                                                                                                                                                                         | 2410 (34.26%)                                                                                                                                                                                                                                                                                                                                                                                                      | 2029 (13.04%)                                                                                                                                                                                                                                                                                                                                                          | 1795*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA40                                                                                                                                                          | 2301 (37.87%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2614 (56.62%)                                                                                                                                                                                                                                                                                                                                                                                | 2205 (32.12%)                                                                                                                                                                                                                                                                                                                                                                                                       | 2028 (21.51%)                                                                                                                                                                                                                                                                                                                                                         | 2140 (28.22%)                                                                                                                                                                                                                                                                                                                                                                                                      | 1930 (15.64%)                                                                                                                                                                                                                                                                                                                                                          | 1669*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA41                                                                                                                                                          | 2499 (24.64%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2991 (49.18%)                                                                                                                                                                                                                                                                                                                                                                                | 2620 (30.67%)                                                                                                                                                                                                                                                                                                                                                                                                       | 2538 (26.58%)                                                                                                                                                                                                                                                                                                                                                         | 2667 (33.02%)                                                                                                                                                                                                                                                                                                                                                                                                      | 2356 (17.51%)                                                                                                                                                                                                                                                                                                                                                          | 2005*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA42                                                                                                                                                          | 2710 (39.91%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3027 (56.27%)                                                                                                                                                                                                                                                                                                                                                                                | 2416 (24.73%)                                                                                                                                                                                                                                                                                                                                                                                                       | 2440 (25.97%)                                                                                                                                                                                                                                                                                                                                                         | 2664 (37.53%)                                                                                                                                                                                                                                                                                                                                                                                                      | 2260 (16.68%)                                                                                                                                                                                                                                                                                                                                                          | 1937*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA43                                                                                                                                                          | 2434 (31.85%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2926 (58.5%)                                                                                                                                                                                                                                                                                                                                                                                 | 2345 (27.03%)                                                                                                                                                                                                                                                                                                                                                                                                       | 2432 (31.74%)                                                                                                                                                                                                                                                                                                                                                         | 2431 (31.69%)                                                                                                                                                                                                                                                                                                                                                                                                      | 2163 (17.17%)                                                                                                                                                                                                                                                                                                                                                          | 1846*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA44                                                                                                                                                          | 2906 (46.84%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3462 (74.94%)                                                                                                                                                                                                                                                                                                                                                                                | 2544 (28.55%)                                                                                                                                                                                                                                                                                                                                                                                                       | 2426 (22.59%)                                                                                                                                                                                                                                                                                                                                                         | 2714 (37.14%)                                                                                                                                                                                                                                                                                                                                                                                                      | 2293 (15.87%)                                                                                                                                                                                                                                                                                                                                                          | 1979*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 30×20         | TA45                                                                                                                                                          | 2640 (32.0%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3245 (62.25%)                                                                                                                                                                                                                                                                                                                                                                                | 2524 (26.2%)                                                                                                                                                                                                                                                                                                                                                                                                        | 2487 (24.35%)                                                                                                                                                                                                                                                                                                                                                         | 2637 (31.85%)                                                                                                                                                                                                                                                                                                                                                                                                      | 2250 (12.5%)                                                                                                                                                                                                                                                                                                                                                           | 2000*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ×             | TA46                                                                                                                                                          | 2667 (32.95%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3008 (49.95%)                                                                                                                                                                                                                                                                                                                                                                                | 2447 (21.98%)                                                                                                                                                                                                                                                                                                                                                                                                       | 2490 (24.13%)                                                                                                                                                                                                                                                                                                                                                         | 2776 (38.38%)                                                                                                                                                                                                                                                                                                                                                                                                      | 2314 (15.35%)                                                                                                                                                                                                                                                                                                                                                          | 2006*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| $\approx$     |                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | TA47                                                                                                                                                          | 2620 (38.7%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2940 (55.64%)                                                                                                                                                                                                                                                                                                                                                                                | 2263 (19.8%)                                                                                                                                                                                                                                                                                                                                                                                                        | 2286 (21.02%)                                                                                                                                                                                                                                                                                                                                                         | 2476 (31.07%)                                                                                                                                                                                                                                                                                                                                                                                                      | 2141 (13.34%)                                                                                                                                                                                                                                                                                                                                                          | 1889*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TA48                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2991 (54.41%)                                                                                                                                                                                                                                                                                                                                                                                | 2356 (21.63%)                                                                                                                                                                                                                                                                                                                                                                                                       | 2371 (22.41%)                                                                                                                                                                                                                                                                                                                                                         | 2490 (28.55%)                                                                                                                                                                                                                                                                                                                                                                                                      | 2289 (18.17%)                                                                                                                                                                                                                                                                                                                                                          | 1937*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|               | TT 4 40                                                                                                                                                       | 2620 (35.26%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                     | 2397 (22.23%)                                                                                                                                                                                                                                                                                                                                                         | 2556 (30.34%)                                                                                                                                                                                                                                                                                                                                                                                                      | 2270 (15.76%)                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | TA49                                                                                                                                                          | 2666 (35.95%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2865 (46.1%)                                                                                                                                                                                                                                                                                                                                                                                 | 2382 (21.47%)                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | TA50                                                                                                                                                          | 2666 (35.95%)<br>2429 (26.31%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2995 (55.75%)                                                                                                                                                                                                                                                                                                                                                                                | 2493 (29.64%)                                                                                                                                                                                                                                                                                                                                                                                                       | 2469 (28.39%)                                                                                                                                                                                                                                                                                                                                                         | 2628 (36.66%)                                                                                                                                                                                                                                                                                                                                                                                                      | 2279 (18.51%)                                                                                                                                                                                                                                                                                                                                                          | 1961*<br>1923*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|               | TA50<br>TA51                                                                                                                                                  | 2666 (35.95%)<br>2429 (26.31%)<br>3856 (39.71%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2995 (55.75%)<br>3851 (39.53%)                                                                                                                                                                                                                                                                                                                                                               | 2493 (29.64%)<br>3435 (24.46%)                                                                                                                                                                                                                                                                                                                                                                                      | 2469 (28.39%)<br>3567 (29.24%)                                                                                                                                                                                                                                                                                                                                        | 2628 (36.66%)<br>3599 (30.4%)                                                                                                                                                                                                                                                                                                                                                                                      | 2279 (18.51%)<br>3181 (15.25%)                                                                                                                                                                                                                                                                                                                                         | 1923*<br>2760*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|               | TA50<br>TA51<br>TA52                                                                                                                                          | 2666 (35.95%)<br>2429 (26.31%)<br>3856 (39.71%)<br>3266 (18.51%)                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2995 (55.75%)<br>3851 (39.53%)<br>3734 (35.49%)                                                                                                                                                                                                                                                                                                                                              | 2493 (29.64%)<br>3435 (24.46%)<br>3394 (23.15%)                                                                                                                                                                                                                                                                                                                                                                     | 2469 (28.39%)<br>3567 (29.24%)<br>3303 (19.85%)                                                                                                                                                                                                                                                                                                                       | 2628 (36.66%)<br>3599 (30.4%)<br>3341 (21.23%)                                                                                                                                                                                                                                                                                                                                                                     | 2279 (18.51%)<br>3181 (15.25%)<br>3029 (9.91%)                                                                                                                                                                                                                                                                                                                         | 1923*<br>2760*<br>2756*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|               | TA50<br>TA51<br>TA52<br>TA53                                                                                                                                  | 2666 (35.95%)<br>2429 (26.31%)<br>3856 (39.71%)<br>3266 (18.51%)<br>3507 (29.08%)                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2995 (55.75%)<br>3851 (39.53%)<br>3734 (35.49%)<br>3394 (24.92%)                                                                                                                                                                                                                                                                                                                             | 2493 (29.64%)<br>3435 (24.46%)<br>3394 (23.15%)<br>3098 (14.02%)                                                                                                                                                                                                                                                                                                                                                    | 2469 (28.39%)<br>3567 (29.24%)<br>3303 (19.85%)<br>3115 (14.65%)                                                                                                                                                                                                                                                                                                      | 2628 (36.66%)<br>3599 (30.4%)<br>3341 (21.23%)<br>3186 (17.26%)                                                                                                                                                                                                                                                                                                                                                    | 2279 (18.51%)<br>3181 (15.25%)<br>3029 (9.91%)<br>2921 (7.51%)                                                                                                                                                                                                                                                                                                         | 1923*<br>2760*<br>2756*<br>2717*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 51            | TA50<br>TA51<br>TA52<br>TA53<br>TA54                                                                                                                          | 2666 (35.95%)<br>2429 (26.31%)<br>3856 (39.71%)<br>3266 (18.51%)<br>3507 (29.08%)<br>3142 (10.67%)                                                                                                                                                                                                                                                                                                                                                                                                                  | 2995 (55.75%)<br>3851 (39.53%)<br>3734 (35.49%)<br>3394 (24.92%)<br>3603 (26.91%)                                                                                                                                                                                                                                                                                                            | 2493 (29.64%)<br>3435 (24.46%)<br>3394 (23.15%)<br>3098 (14.02%)<br>3272 (15.25%)                                                                                                                                                                                                                                                                                                                                   | 2469 (28.39%)<br>3567 (29.24%)<br>3303 (19.85%)<br>3115 (14.65%)<br>3265 (15.01%)                                                                                                                                                                                                                                                                                     | 2628 (36.66%)<br>3599 (30.4%)<br>3341 (21.23%)<br>3186 (17.26%)<br>3266 (15.04%)                                                                                                                                                                                                                                                                                                                                   | 2279 (18.51%)<br>3181 (15.25%)<br>3029 (9.91%)<br>2921 (7.51%)<br>2914 (2.64%)                                                                                                                                                                                                                                                                                         | 1923*<br>2760*<br>2756*<br>2717*<br>2839*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ×15           | TA50  TA51 TA52 TA53 TA54 TA55                                                                                                                                | 2666 (35.95%)<br>2429 (26.31%)<br>3856 (39.71%)<br>3266 (18.51%)<br>3507 (29.08%)<br>3142 (10.67%)<br>3225 (20.38%)                                                                                                                                                                                                                                                                                                                                                                                                 | 2995 (55.75%)<br>3851 (39.53%)<br>3734 (35.49%)<br>3394 (24.92%)<br>3603 (26.91%)<br>3664 (36.77%)                                                                                                                                                                                                                                                                                           | 2493 (29.64%)<br>3435 (24.46%)<br>3394 (23.15%)<br>3098 (14.02%)<br>3272 (15.25%)<br>3188 (19.0%)                                                                                                                                                                                                                                                                                                                   | 2469 (28.39%)<br>3567 (29.24%)<br>3303 (19.85%)<br>3115 (14.65%)<br>3265 (15.01%)<br>3279 (22.4%)                                                                                                                                                                                                                                                                     | 2628 (36.66%)<br>3599 (30.4%)<br>3341 (21.23%)<br>3186 (17.26%)<br>3266 (15.04%)<br>3232 (20.64%)                                                                                                                                                                                                                                                                                                                  | 2279 (18.51%)  3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%)                                                                                                                                                                                                                                                                                      | 1923*<br>2760*<br>2756*<br>2717*<br>2839*<br>2679*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 50×15         | TA50  TA51 TA52 TA53 TA54 TA55 TA56                                                                                                                           | 2666 (35.95%)<br>2429 (26.31%)<br>3856 (39.71%)<br>3266 (18.51%)<br>3507 (29.08%)<br>3142 (10.67%)<br>3225 (20.38%)<br>3530 (26.93%)                                                                                                                                                                                                                                                                                                                                                                                | 2995 (55.75%)<br>3851 (39.53%)<br>3734 (35.49%)<br>3394 (24.92%)<br>3603 (26.91%)<br>3664 (36.77%)<br>4016 (44.41%)                                                                                                                                                                                                                                                                          | 2493 (29.64%)<br>3435 (24.46%)<br>3394 (23.15%)<br>3098 (14.02%)<br>3272 (15.25%)<br>3188 (19.0%)<br>3134 (12.69%)                                                                                                                                                                                                                                                                                                  | 2469 (28.39%)<br>3567 (29.24%)<br>3303 (19.85%)<br>3115 (14.65%)<br>3265 (15.01%)<br>3279 (22.4%)<br>3100 (11.47%)                                                                                                                                                                                                                                                    | 2628 (36.66%)<br>3599 (30.4%)<br>3341 (21.23%)<br>3186 (17.26%)<br>3266 (15.04%)<br>3232 (20.64%)<br>3378 (21.47%)                                                                                                                                                                                                                                                                                                 | 2279 (18.51%)<br>3181 (15.25%)<br>3029 (9.91%)<br>2921 (7.51%)<br>2914 (2.64%)<br>3050 (13.85%)<br>3012 (8.31%)                                                                                                                                                                                                                                                        | 1923*<br>2760*<br>2756*<br>2717*<br>2839*<br>2679*<br>2781*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 50×15         | TA50  TA51 TA52 TA53 TA54 TA55 TA56 TA57                                                                                                                      | 2666 (35.95%)<br>2429 (26.31%)<br>3856 (39.71%)<br>3266 (18.51%)<br>3507 (29.08%)<br>3142 (10.67%)<br>3225 (20.38%)<br>3530 (26.93%)<br>3725 (26.57%)                                                                                                                                                                                                                                                                                                                                                               | 2995 (55.75%)<br>3851 (39.53%)<br>3734 (35.49%)<br>3394 (24.92%)<br>3603 (26.91%)<br>3664 (36.77%)<br>4016 (44.41%)<br>3720 (26.4%)                                                                                                                                                                                                                                                          | 2493 (29.64%)<br>3435 (24.46%)<br>3394 (23.15%)<br>3098 (14.02%)<br>3272 (15.25%)<br>3188 (19.0%)<br>3134 (12.69%)<br>3261 (10.81%)                                                                                                                                                                                                                                                                                 | 2469 (28.39%)<br>3567 (29.24%)<br>3303 (19.85%)<br>3115 (14.65%)<br>3265 (15.01%)<br>3279 (22.4%)<br>3100 (11.47%)<br>3335 (13.32%)                                                                                                                                                                                                                                   | 2628 (36.66%)<br>3599 (30.4%)<br>3341 (21.23%)<br>3186 (17.26%)<br>3266 (15.04%)<br>3232 (20.64%)<br>3378 (21.47%)<br>3471 (17.94%)                                                                                                                                                                                                                                                                                | 2279 (18.51%)  3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3012 (8.31%) 3180 (8.05%)                                                                                                                                                                                                                                                            | 1923*<br>2760*<br>2756*<br>2717*<br>2839*<br>2679*<br>2781*<br>2943*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 50×15         | TA50  TA51 TA52 TA53 TA54 TA55 TA56 TA57 TA58                                                                                                                 | 2666 (35.95%)<br>2429 (26.31%)<br>3856 (39.71%)<br>3266 (18.51%)<br>3507 (29.08%)<br>3142 (10.67%)<br>3225 (20.38%)<br>3530 (26.93%)<br>3725 (26.57%)<br>3365 (16.64%)                                                                                                                                                                                                                                                                                                                                              | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3394 (24.92%) 3603 (26.91%) 3604 (36.77%) 4016 (44.41%) 3720 (26.4%) 3926 (36.08%)                                                                                                                                                                                                                                                                | 2493 (29.64%) 3435 (24.46%) 3394 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3261 (10.81%) 3365 (16.64%)                                                                                                                                                                                                                                                                                        | 2469 (28.39%)<br>3567 (29.24%)<br>3303 (19.85%)<br>3115 (14.65%)<br>3265 (15.01%)<br>3279 (22.4%)<br>3100 (11.47%)<br>3335 (13.32%)<br>3420 (18.54%)                                                                                                                                                                                                                  | 2628 (36.66%)<br>3599 (30.4%)<br>3341 (21.23%)<br>3186 (17.26%)<br>3266 (15.04%)<br>3232 (20.64%)<br>3378 (21.47%)<br>3471 (17.94%)<br>3732 (29.36%)                                                                                                                                                                                                                                                               | 2279 (18.51%)  3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3012 (8.31%) 3180 (8.05%) 3103 (7.56%)                                                                                                                                                                                                                                               | 1923*<br>2760*<br>2756*<br>2717*<br>2839*<br>2679*<br>2781*<br>2943*<br>2885*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 50×15         | TA50  TA51 TA52 TA53 TA54 TA55 TA56 TA57 TA58 TA59                                                                                                            | 2666 (35.95%)<br>2429 (26.31%)<br>3856 (39.71%)<br>3507 (29.08%)<br>3142 (10.67%)<br>3225 (20.38%)<br>3530 (26.93%)<br>3725 (26.57%)<br>3365 (16.64%)<br>3294 (24.07%)                                                                                                                                                                                                                                                                                                                                              | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3604 (26.91%) 3604 (36.77%) 4016 (44.41%) 3720 (26.4%) 3926 (36.08%) 3672 (38.31%)                                                                                                                                                                                                                                                                | 2493 (29.64%) 3435 (24.46%) 3394 (23.15%) 3098 (14.02%) 31272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3261 (10.81%) 3365 (16.64%) 3131 (17.93%)                                                                                                                                                                                                                                                                         | 2469 (28.39%) 3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3265 (15.01%) 3279 (22.4%) 3100 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%)                                                                                                                                                                                                                             | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3378 (21.47%) 3471 (17.94%) 3732 (29.36%) 3381 (27.34%)                                                                                                                                                                                                                                                                                       | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3012 (8.31%) 3180 (8.05%) 3103 (7.56%) 3009 (13.33%)                                                                                                                                                                                                                                  | 1923 <sup>3</sup> 2760 <sup>3</sup> 2756 <sup>3</sup> 2717 <sup>3</sup> 2839 <sup>3</sup> 2679 <sup>3</sup> 2781 <sup>3</sup> 2943 <sup>3</sup> 2885 <sup>3</sup> 2655 <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 50×15         | TA50  TA51 TA52 TA53 TA54 TA55 TA56 TA57 TA58                                                                                                                 | 2666 (35.95%)<br>2429 (26.31%)<br>3856 (39.71%)<br>3266 (18.51%)<br>3507 (29.08%)<br>3142 (10.67%)<br>3225 (20.38%)<br>3530 (26.93%)<br>3725 (26.57%)<br>3365 (16.64%)                                                                                                                                                                                                                                                                                                                                              | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3394 (24.92%) 3603 (26.91%) 3604 (36.77%) 4016 (44.41%) 3720 (26.4%) 3926 (36.08%)                                                                                                                                                                                                                                                                | 2493 (29.64%) 3435 (24.46%) 3394 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3261 (10.81%) 3365 (16.64%)                                                                                                                                                                                                                                                                                        | 2469 (28.39%)<br>3567 (29.24%)<br>3303 (19.85%)<br>3115 (14.65%)<br>3265 (15.01%)<br>3279 (22.4%)<br>3100 (11.47%)<br>3335 (13.32%)<br>3420 (18.54%)                                                                                                                                                                                                                  | 2628 (36.66%)<br>3599 (30.4%)<br>3341 (21.23%)<br>3186 (17.26%)<br>3266 (15.04%)<br>3232 (20.64%)<br>3378 (21.47%)<br>3471 (17.94%)<br>3732 (29.36%)                                                                                                                                                                                                                                                               | 2279 (18.51%)  3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3012 (8.31%) 3180 (8.05%) 3103 (7.56%)                                                                                                                                                                                                                                               | 2760°<br>2756°<br>2717°<br>2839°<br>2679°<br>2781°<br>2943°<br>2885°<br>2655°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 50×15         | TA50  TA51 TA52 TA53 TA54 TA55 TA56 TA57 TA58 TA59 TA60 TA61                                                                                                  | 2666 (35.95%)<br>2429 (26.31%)<br>3856 (39.71%)<br>3266 (18.51%)<br>3507 (29.08%)<br>3142 (10.67%)<br>3225 (20.38%)<br>3530 (26.93%)<br>3725 (26.57%)<br>3365 (16.64%)<br>3294 (24.07%)<br>3500 (28.53%)                                                                                                                                                                                                                                                                                                            | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3394 (24.92%) 3603 (26.91%) 3664 (36.77%) 4016 (44.41%) 3720 (26.4%) 3926 (36.08%) 3672 (38.31%) 3783 (38.93%)  4142 (44.42%)                                                                                                                                                                                                                     | 2493 (29.64%) 3435 (24.46%) 3394 (23.15%) 3098 (14.02%) 3122 (15.25%) 3188 (19.0%) 3134 (12.69%) 3261 (10.81%) 3365 (16.64%) 3131 (17.93%) 3122 (14.65%)                                                                                                                                                                                                                                                            | 2469 (28.39%) 3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3265 (15.01%) 3279 (22.4%) 3100 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%) 3044 (11.79%) 3376 (17.71%)                                                                                                                                                                                                 | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3262 (20.64%) 3378 (21.47%) 3471 (17.94%) 3732 (29.36%) 3381 (27.34%) 3352 (23.1%)                                                                                                                                                                                                                                                                          | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3012 (8.31%) 3180 (8.05%) 3103 (7.56%) 3009 (13.33%) 2909 (6.83%) 3184 (11.02%)                                                                                                                                                                                                       | 1923*<br>2760*<br>2756*<br>2717*<br>2839*<br>2679*<br>2781*<br>2943*<br>2885*<br>2655*<br>2723*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 50×15         | TA50  TA51 TA52 TA53 TA54 TA55 TA56 TA57 TA58 TA59 TA60  TA61 TA62                                                                                            | 2666 (35.95%) 2429 (26.31%) 3856 (39.71%) 3266 (18.51%) 3507 (29.08%) 3142 (10.67%) 3225 (20.38%) 3725 (26.57%) 3365 (16.64%) 3294 (24.07%) 3500 (28.53%) 3606 (25.73%) 3639 (26.84%)                                                                                                                                                                                                                                                                                                                               | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3694 (24.92%) 3603 (26.91%) 3664 (36.77%) 4016 (44.41%) 3720 (26.4%) 3926 (36.08%) 3672 (38.31%) 3783 (38.93%)  4142 (44.42%) 3897 (35.83%)                                                                                                                                                                                                       | 2493 (29.64%) 3435 (24.46%) 3394 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3365 (16.64%) 3131 (17.93%) 3122 (14.65%) 3434 (16.56%) 3442 (20.67%)                                                                                                                                                                                                                                              | 2469 (28.39%) 3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3265 (15.01%) 3279 (22.4%) 3100 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%) 3044 (11.79%) 3376 (17.71%) 3417 (19.1%)                                                                                                                                                                                    | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3232 (20.64%) 3378 (21.47%) 3471 (17.94%) 3732 (29.36%) 3381 (27.34%) 3352 (23.1%) 3654 (27.41%) 3722 (29.73%)                                                                                                                                                                                                                                | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3012 (8.31%) 3180 (8.05%) 3103 (7.56%) 3009 (6.83%) 3184 (11.02%) 3229 (12.55%)                                                                                                                                                                                                       | 1923*<br>2760*<br>2756*<br>2717*<br>2839*<br>2679*<br>2781*<br>2943*<br>2885*<br>2723*<br>2868*<br>2869*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 50×15         | TA50  TA51 TA52 TA53 TA54 TA55 TA56 TA57 TA58 TA59 TA60  TA61 TA62 TA63                                                                                       | 2666 (35.95%) 2429 (26.31%) 3856 (39.71%) 3266 (18.51%) 3507 (29.08%) 3142 (10.67%) 3225 (20.38%) 3530 (26.93%) 3725 (26.57%) 3365 (16.64%) 3294 (24.07%) 3500 (28.53%) 3606 (25.73%) 3639 (26.84%) 3521 (27.8%)                                                                                                                                                                                                                                                                                                    | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3394 (24.92%) 3664 (36.77%) 4016 (44.41%) 3720 (26.4%) 3926 (36.08%) 3672 (38.31%) 3783 (38.93%)  4142 (44.42%) 3897 (35.83%) 3852 (39.82%)                                                                                                                                                                                                       | 2493 (29.64%) 3435 (24.46%) 3394 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3365 (16.64%) 3131 (17.93%) 3122 (14.65%) 3343 (16.56%) 3462 (20.67%) 3233 (17.35%)                                                                                                                                                                                                                                | 2469 (28.39%) 3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3265 (15.01%) 3279 (22.4%) 3100 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%) 3044 (11.79%) 3376 (17.71%) 3417 (19.1%) 3276 (18.91%)                                                                                                                                                                      | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3232 (20.64%) 3378 (21.47%) 3732 (29.36%) 3381 (27.34%) 3352 (23.1%) 3654 (27.41%) 3722 (29.73%) 3536 (28.35%)                                                                                                                                                                                                                                | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3012 (8.31%) 3180 (8.05%) 3103 (7.56%) 3009 (13.33%) 2909 (6.83%) 3184 (11.02%) 3229 (12.55%) 3004 (9.04%)                                                                                                                                                                            | 1923° 2760° 2756° 2717° 2839° 2679° 2781° 2943° 2943° 2865° 2723°  2868° 2869° 2755°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|               | TA50  TA51 TA52 TA53 TA54 TA55 TA56 TA57 TA58 TA59 TA60  TA61 TA62                                                                                            | 2666 (35.95%) 2429 (26.31%) 3856 (39.71%) 3266 (18.51%) 3507 (29.08%) 3142 (10.67%) 3225 (20.38%) 3725 (26.57%) 3365 (16.64%) 3294 (24.07%) 3500 (28.53%) 3606 (25.73%) 3639 (26.84%)                                                                                                                                                                                                                                                                                                                               | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3694 (24.92%) 3603 (26.91%) 3664 (36.77%) 4016 (44.41%) 3720 (26.4%) 3926 (36.08%) 3672 (38.31%) 3783 (38.93%)  4142 (44.42%) 3897 (35.83%)                                                                                                                                                                                                       | 2493 (29.64%) 3435 (24.46%) 3394 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3365 (16.64%) 3131 (17.93%) 3122 (14.65%) 3434 (16.56%) 3442 (20.67%)                                                                                                                                                                                                                                              | 2469 (28.39%) 3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3265 (15.01%) 3279 (22.4%) 3100 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%) 3044 (11.79%) 3376 (17.71%) 3417 (19.11%) 3276 (18.91%) 3057 (13.14%)                                                                                                                                                       | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3232 (20.64%) 3378 (21.47%) 3471 (17.94%) 3732 (29.36%) 3381 (27.34%) 3352 (23.1%) 3654 (27.41%) 3722 (29.73%)                                                                                                                                                                                                                                | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3012 (8.31%) 3180 (8.05%) 3103 (7.56%) 3009 (6.83%) 3184 (11.02%) 3229 (12.55%)                                                                                                                                                                                                       | 1923 <sup>3</sup> 2760 <sup>3</sup> 2756 <sup>3</sup> 2717 <sup>3</sup> 2839 <sup>3</sup> 2679 <sup>3</sup> 2781 <sup>3</sup> 2943 <sup>3</sup> 2885 <sup>3</sup> 2655 <sup>3</sup> 2723 <sup>3</sup> 2868 <sup>3</sup> 2869 <sup>2</sup> 2755 <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|               | TA50  TA51 TA52 TA53 TA54 TA55 TA56 TA57 TA58 TA59 TA60  TA61 TA62 TA63                                                                                       | 2666 (35.95%) 2429 (26.31%) 3856 (39.71%) 3266 (18.51%) 3507 (29.08%) 3142 (10.67%) 3225 (20.38%) 3530 (26.93%) 3725 (26.57%) 3365 (16.64%) 3294 (24.07%) 3500 (28.53%) 3606 (25.73%) 3639 (26.84%) 3521 (27.8%)                                                                                                                                                                                                                                                                                                    | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3394 (24.92%) 3664 (36.77%) 4016 (44.41%) 3720 (26.4%) 3926 (36.08%) 3672 (38.31%) 3783 (38.93%)  4142 (44.42%) 3897 (35.83%) 3852 (39.82%)                                                                                                                                                                                                       | 2493 (29.64%) 3435 (24.46%) 3394 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3365 (16.64%) 3131 (17.93%) 3122 (14.65%) 3343 (16.56%) 3462 (20.67%) 3233 (17.35%)                                                                                                                                                                                                                                | 2469 (28.39%) 3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3265 (15.01%) 3279 (22.4%) 3100 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%) 3044 (11.79%) 3376 (17.71%) 3417 (19.1%) 3276 (18.91%)                                                                                                                                                                      | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3232 (20.64%) 3378 (21.47%) 3732 (29.36%) 3381 (27.34%) 3352 (23.1%) 3654 (27.41%) 3722 (29.73%) 3536 (28.35%)                                                                                                                                                                                                                                | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3012 (8.31%) 3180 (8.05%) 3103 (7.56%) 3009 (13.33%) 2909 (6.83%) 3184 (11.02%) 3229 (12.55%) 3004 (9.04%)                                                                                                                                                                            | 1923*<br>2760*<br>2756*<br>2717*<br>2839*<br>2679*<br>2781*<br>2943*<br>2885*<br>2655*<br>2723*<br>2868*<br>2869*<br>2755*<br>2702*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|               | TA50  TA51 TA52 TA53 TA54 TA55 TA56 TA57 TA58 TA59 TA60  TA61 TA62 TA62 TA63 TA64                                                                             | 2666 (35.95%) 2429 (26.31%) 3856 (39.71%) 3266 (18.51%) 3207 (29.08%) 3142 (10.67%) 3225 (20.38%) 33530 (26.93%) 3725 (26.57%) 3365 (16.64%) 3294 (24.07%) 3500 (28.53%) 3606 (25.73%) 3639 (26.84%) 3447 (27.57%)                                                                                                                                                                                                                                                                                                  | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3394 (24.92%) 3603 (26.91%) 3664 (36.77%) 4016 (44.41%) 3720 (26.4%) 3926 (36.08%) 3672 (38.31%) 3783 (38.93%)  4142 (44.42%) 3897 (35.83%) 3852 (39.82%) 4001 (48.08%)                                                                                                                                                                           | 2493 (29.64%) 3435 (24.46%) 3394 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3261 (10.81%) 3365 (16.64%) 3131 (17.93%) 3122 (14.65%) 3343 (16.56%) 3462 (20.67%) 3233 (17.35%) 3188 (17.99%)                                                                                                                                                                                                    | 2469 (28.39%) 3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3265 (15.01%) 3279 (22.4%) 3100 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%) 3044 (11.79%) 3376 (17.71%) 3417 (19.11%) 3276 (18.91%) 3057 (13.14%)                                                                                                                                                       | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3232 (20.64%) 3378 (21.47%) 3471 (17.94%) 3732 (29.36%) 3381 (27.34%) 3352 (23.1%) 3654 (27.41%) 3722 (29.73%) 3536 (28.35%) 3631 (34.38%)                                                                                                                                                                                                    | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3012 (8.31%) 3180 (8.05%) 3103 (7.56%) 3009 (13.33%) 2909 (6.83%) 3184 (11.02%) 3229 (12.55%) 3004 (9.04%) 2916 (7.92%)                                                                                                                                                               | 1923* 2760* 2756* 2717* 2839* 2679* 2781* 2943* 2885* 2655* 2723*  2868* 2869* 2755* 2702* 2725*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|               | TA50  TA51 TA52 TA53 TA54 TA55 TA56 TA57 TA58 TA59 TA60  TA61 TA62 TA63 TA64 TA65                                                                             | 2666 (35.95%) 2429 (26.31%) 3856 (39.71%) 3266 (18.51%) 3507 (29.08%) 3142 (10.67%) 3225 (20.38%) 3725 (26.57%) 3365 (16.64%) 3500 (28.53%) 3606 (25.73%) 3639 (26.84%) 3521 (27.8%) 3347 (27.57%) 3332 (22.28%)                                                                                                                                                                                                                                                                                                    | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3604 (24.92%) 3603 (26.91%) 3664 (36.77%) 4016 (44.41%) 3720 (26.4%) 3926 (36.08%) 3672 (38.31%) 3783 (38.93%)  4142 (44.42%) 3897 (35.83%) 3852 (39.82%) 4001 (48.08%) 4062 (49.06%)                                                                                                                                                             | 2493 (29.64%) 3435 (24.46%) 3394 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3365 (16.64%) 3131 (17.93%) 3122 (14.65%) 3432 (20.67%) 3233 (17.35%) 3188 (17.99%) 3429 (25.83%)                                                                                                                                                                                                                  | 2469 (28.39%) 3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3265 (15.01%) 3279 (22.4%) 3100 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%) 3044 (11.79%) 3376 (17.71%) 3417 (19.1%) 3276 (18.91%) 3279 (13.14%) 3249 (19.23%)                                                                                                                                          | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3232 (20.64%) 3378 (21.47%) 3471 (17.94%) 3732 (29.36%) 3381 (27.34%) 3352 (23.1%) 3654 (27.41%) 3722 (29.73%) 3536 (28.35%) 3631 (34.38%) 3359 (23.27%)                                                                                                                                                                                      | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3103 (7.56%) 3103 (7.56%) 3009 (13.33%) 2999 (6.83%) 3184 (11.02%) 3229 (12.55%) 3004 (9.04%) 2916 (7.92%) 3068 (12.59%)                                                                                                                                                              | 1923° 2760° 2756° 2717° 2839° 2679° 2781° 2943° 2885° 2723°  2868° 2869° 2755° 2702° 2725° 2845°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 50×20 50×15   | TA50  TA51 TA52 TA53 TA54 TA55 TA56 TA57 TA58 TA59 TA60  TA61 TA62 TA63 TA64 TA65 TA65 TA66 TA67                                                              | 2666 (35.95%) 2429 (26.31%) 3856 (39.71%) 3266 (18.51%) 3507 (29.08%) 3142 (10.67%) 3225 (20.38%) 3530 (26.93%) 3725 (26.57%) 3365 (16.64%) 3294 (24.07%) 3500 (28.53%) 3606 (25.73%) 3639 (26.84%) 3521 (27.8%) 3447 (27.57%) 3332 (22.28%) 3677 (29.24%) 3487 (23.43%)                                                                                                                                                                                                                                            | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3394 (24.92%) 3664 (36.77%) 4016 (44.41%) 3720 (26.4%) 3720 (26.4%) 3783 (38.93%) 4142 (44.42%) 3897 (35.83%) 3852 (39.82%) 4001 (48.08%) 3940 (38.49%) 3974 (40.67%)                                                                                                                                                                             | 2493 (29.64%) 3435 (24.46%) 3394 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3261 (10.81%) 3365 (16.64%) 3131 (17.93%) 3122 (14.656%) 3442 (20.67%) 3233 (17.35%) 3188 (17.99%) 3429 (25.83%) 3287 (15.54%) 3351 (18.62%)                                                                                                                                                                       | 2469 (28.39%) 3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3265 (15.01%) 3279 (22.4%) 3100 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%) 3044 (11.79%) 3376 (17.71%) 3276 (18.91%) 3057 (13.14%) 3249 (19.23%) 3335 (17.22%) 3392 (20.07%)                                                                                                                           | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3232 (20.64%) 3378 (21.47%) 3732 (29.36%) 3381 (27.34%) 3352 (23.1%) 3654 (27.41%) 3722 (29.73%) 3631 (34.38%) 3631 (34.38%) 3559 (23.27%) 3557 (24.96%) 3567 (26.27%)                                                                                                                                                                        | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3012 (8.31%) 3180 (8.05%) 3103 (7.56%) 3009 (13.33%) 2909 (6.83%) 3184 (11.02%) 3068 (12.55%) 3004 (9.04%) 2916 (7.92%) 3068 (12.59%) 3144 (10.51%) 3120 (10.44%)                                                                                                                     | 1923° 2760° 2756° 2717° 2839° 2679° 2781° 2943° 2868° 2723° 2868° 2755° 2702° 2725° 2845° 2825°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | TA50  TA51 TA52 TA53 TA54 TA55 TA56 TA57 TA58 TA59 TA60  TA61 TA62 TA62 TA63 TA64 TA65 TA65 TA66 TA67 TA68                                                    | 2666 (35.95%) 2429 (26.31%) 3856 (39.71%) 3266 (18.51%) 3507 (29.08%) 3142 (10.67%) 3225 (20.38%) 3725 (26.57%) 3365 (16.64%) 3294 (24.07%) 3500 (28.53%) 3606 (25.73%) 3639 (26.84%) 3521 (27.8%) 3639 (26.84%) 3521 (27.8%) 3447 (27.57%) 3332 (22.28%) 3677 (29.24%) 3487 (23.43%) 3336 (19.83%)                                                                                                                                                                                                                 | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3394 (24.92%) 3603 (26.91%) 3664 (36.77%) 4016 (44.41%) 3720 (26.4%) 3926 (36.08%) 3672 (38.31%) 3783 (38.93%)  4142 (44.42%) 3897 (35.83%) 4001 (48.08%) 4062 (49.06%) 3940 (38.49%) 3974 (40.67%) 3857 (38.54%)                                                                                                                                 | 2493 (29.64%) 3435 (24.46%) 3394 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3261 (10.81%) 3365 (16.64%) 3311 (17.93%) 3122 (14.65%) 3343 (16.56%) 3462 (20.67%) 3233 (17.35%) 3188 (17.99%) 3429 (25.83%) 3287 (15.54%) 3351 (18.62%) 3203 (15.05%)                                                                                                                                            | 2469 (28.39%) 3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3265 (15.01%) 3279 (22.4%) 3100 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%) 3044 (11.79%) 3376 (17.71%) 3417 (19.1%) 3276 (18.91%) 3057 (13.14%) 3249 (19.23%) 3355 (17.22%) 33392 (20.07%) 3251 (16.77%)                                                                                               | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3232 (20.64%) 3378 (21.47%) 3471 (17.94%) 3732 (29.36%) 3381 (27.34%) 3352 (23.1%) 3654 (27.41%) 3722 (29.73%) 3631 (34.38%) 3359 (23.27%) 3555 (24.96%) 3567 (26.27%) 3680 (32.18%)                                                                                                                                                          | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2921 (2.64%) 3050 (13.85%) 3012 (8.31%) 3180 (8.05%) 3103 (7.56%) 3009 (13.33%) 2909 (6.83%) 3184 (11.02%) 3229 (12.55%) 3004 (9.04%) 2916 (7.92%) 3068 (12.59%) 3144 (10.51%) 3120 (10.44%) 2955 (6.14%)                                                                                                        | 1923° 2760° 2756° 2717° 2839° 2679° 2781° 2943° 2885° 2655° 2723°  2868° 2869° 2755° 2702° 2725° 2845° 2845° 2845° 2845°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|               | TA50  TA51 TA52 TA53 TA54 TA55 TA56 TA57 TA58 TA59 TA60  TA61 TA62 TA63 TA64 TA65 TA65 TA66 TA67                                                              | 2666 (35.95%) 2429 (26.31%) 3856 (39.71%) 3266 (18.51%) 3507 (29.08%) 3142 (10.67%) 3225 (20.38%) 3530 (26.93%) 3725 (26.57%) 3365 (16.64%) 3294 (24.07%) 3500 (28.53%) 3606 (25.73%) 3639 (26.84%) 3521 (27.8%) 3447 (27.57%) 3332 (22.28%) 3677 (29.24%) 3487 (23.43%)                                                                                                                                                                                                                                            | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3394 (24.92%) 3664 (36.77%) 4016 (44.41%) 3720 (26.4%) 3720 (26.4%) 3783 (38.93%) 4142 (44.42%) 3897 (35.83%) 3852 (39.82%) 4001 (48.08%) 3940 (38.49%) 3974 (40.67%)                                                                                                                                                                             | 2493 (29.64%) 3435 (24.46%) 3394 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3261 (10.81%) 3365 (16.64%) 3131 (17.93%) 3122 (14.656%) 3442 (20.67%) 3233 (17.35%) 3188 (17.99%) 3429 (25.83%) 3287 (15.54%) 3351 (18.62%)                                                                                                                                                                       | 2469 (28.39%) 3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3265 (15.01%) 3279 (22.4%) 3100 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%) 3044 (11.79%) 3376 (17.71%) 3276 (18.91%) 3057 (13.14%) 3249 (19.23%) 3335 (17.22%) 3392 (20.07%)                                                                                                                           | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3232 (20.64%) 3378 (21.47%) 3732 (29.36%) 3381 (27.34%) 3352 (23.1%) 3654 (27.41%) 3722 (29.73%) 3631 (34.38%) 3631 (34.38%) 3559 (23.27%) 3557 (24.96%) 3567 (26.27%)                                                                                                                                                                        | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3012 (8.31%) 3180 (8.05%) 3103 (7.56%) 3009 (13.33%) 2909 (6.83%) 3184 (11.02%) 3068 (12.55%) 3004 (9.04%) 2916 (7.92%) 3068 (12.59%) 3144 (10.51%) 3120 (10.44%)                                                                                                                     | 1923° 2760° 2756° 2717° 2839° 2679° 2781° 2943° 2885° 2723°  2868° 2755° 2702° 2725° 2845° 2825° 2784° 3071°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|               | TA50  TA51 TA52 TA53 TA54 TA55 TA56 TA57 TA58 TA59 TA60  TA61 TA62 TA63 TA63 TA64 TA65 TA66 TA67 TA68 TA69 TA70                                               | 2666 (35.95%) 2429 (26.31%) 3856 (39.71%) 3266 (18.51%) 3507 (29.08%) 3142 (10.67%) 3225 (20.38%) 3725 (26.57%) 3365 (16.64%) 3500 (28.53%) 3606 (25.73%) 3639 (26.84%) 3521 (27.8%) 3637 (29.24%) 3447 (27.57%) 3332 (22.28%) 3677 (29.24%) 3487 (23.43%) 3336 (19.83%) 3862 (25.76%) 3801 (26.91%)                                                                                                                                                                                                                | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3694 (24.92%) 3603 (26.91%) 3664 (36.77%) 3926 (36.08%) 3720 (26.4%) 3926 (36.08%) 3672 (38.31%) 3783 (38.93%)  4142 (44.42%) 3897 (35.83%) 3852 (39.82%) 4001 (48.08%) 4062 (49.06%) 3940 (38.49%) 3974 (40.67%) 3857 (38.54%) 4349 (41.62%) 4147 (38.46%)                                                                                       | 2493 (29.64%) 3435 (24.46%) 3394 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3365 (16.64%) 3131 (17.93%) 3122 (14.65%) 3432 (16.56%) 3442 (20.67%) 3233 (17.35%) 3188 (17.99%) 3429 (25.83%) 3287 (15.54%) 3251 (18.62%) 3203 (15.05%) 3550 (15.6%) 3482 (16.26%)                                                                                                                               | 2469 (28.39%) 3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3265 (15.01%) 3279 (22.4%) 3100 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%) 3044 (11.79%) 3376 (17.71%) 3276 (18.91%) 3276 (18.91%) 3355 (13.22%) 3353 (17.22%) 3353 (17.22%) 3352 (20.07%) 3251 (16.77%) 3526 (14.82%) 3590 (19.87%)                                                                   | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3232 (20.64%) 3378 (21.47%) 3471 (17.94%) 3732 (29.36%) 3381 (27.34%) 3352 (23.1%) 3654 (27.41%) 3536 (28.35%) 3539 (32.32%) 3555 (24.96%) 3567 (26.27%) 3680 (32.18%) 3592 (16.97%) 3643 (21.64%)                                                                                                                                            | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3012 (8.31%) 3180 (8.05%) 3103 (7.56%) 3009 (6.83%) 3184 (11.02%) 3229 (12.55%) 3004 (9.04%) 2916 (7.92%) 3068 (12.59%) 3144 (10.51%) 3120 (10.44%) 2955 (6.14%) 3295 (7.29%) 3336 (11.39%)                                                                                           | 1923** 2760** 2756** 2717** 2839** 2679** 2781** 2943** 2885** 2755** 2702** 2755** 2702** 2725** 2845** 2734** 3071** 2995**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|               | TA50  TA51 TA52 TA53 TA54 TA55 TA56 TA56 TA57 TA58 TA59 TA60  TA61 TA62 TA63 TA64 TA65 TA66 TA67 TA68 TA67 TA68 TA69 TA70                                     | 2666 (35.95%) 2429 (26.31%) 3856 (39.71%) 3266 (18.51%) 3507 (29.08%) 3142 (10.67%) 3225 (20.38%) 3725 (26.57%) 3365 (16.64%) 3294 (24.07%) 3500 (28.53%) 3512 (27.8%) 3447 (27.57%) 3367 (29.24%) 3487 (23.43%) 3521 (27.8%) 3677 (29.24%) 3487 (23.43%) 3862 (25.75%) 3801 (26.91%) 6232 (14.06%)                                                                                                                                                                                                                 | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3394 (24.92%) 3664 (36.77%) 4016 (44.41%) 3720 (26.4%) 3926 (36.08%) 3672 (38.31%) 3783 (38.93%)  4142 (44.42%) 3897 (35.83%) 3852 (39.82%) 4001 (48.08%) 3914 (40.67%) 3944 (40.67%) 3947 (40.67%) 3947 (40.67%) 4147 (38.46%)  6818 (24.78%)                                                                                                    | 2493 (29.64%) 3435 (24.46%) 3394 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3261 (10.81%) 3365 (16.64%) 3131 (17.93%) 3122 (14.65%) 3343 (16.56%) 3442 (20.67%) 3233 (17.35%) 3188 (17.99%) 3253 (15.54%) 3351 (18.62%) 3203 (15.05%) 3350 (15.6%) 3482 (16.26%) 6036 (10.47%)                                                                                                                               | 2469 (28.39%) 3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3259 (15.01%) 3279 (22.4%) 3100 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%) 3376 (17.71%) 3417 (19.1%) 3276 (18.91%) 3057 (13.14%) 3292 (20.07%) 3291 (19.23%) 3351 (17.22%) 3392 (20.07%) 3252 (14.82%) 3590 (19.87%)                                                                                  | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3232 (20.64%) 3378 (21.47%) 3471 (17.94%) 3352 (29.36%) 3381 (27.34%) 3522 (29.13%) 3536 (28.35%) 3631 (34.38%) 3536 (28.25%) 3631 (34.26%) 3557 (24.26%) 3567 (26.27%) 3680 (32.18%) 3692 (16.97%) 3643 (21.64%)                                                                                                                             | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3012 (8.31%) 3180 (8.05%) 3103 (7.56%) 3009 (13.33%) 2909 (6.83%) 3184 (11.02%) 3229 (12.55%) 3004 (9.04%) 2916 (7.92%) 3144 (10.51%) 3120 (10.44%) 2955 (6.14%) 3295 (7.92%) 3336 (11.39%) 5653 (3.46%)                                                                              | 1923'2760'2756'2717'2839'2781'2943'32885'2723'2868'2869'27755'2702'2725'2781'2995'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|               | TA50  TA51 TA52 TA53 TA54 TA55 TA56 TA57 TA58 TA59 TA60  TA61 TA62 TA63 TA64 TA65 TA66 TA67 TA68 TA67 TA68 TA69 TA70  TA71 TA72                               | 2666 (35.95%) 2429 (26.31%) 3856 (39.71%) 3266 (18.51%) 3207 (29.08%) 3142 (10.67%) 3225 (20.38%) 33530 (26.93%) 3725 (26.57%) 3365 (16.64%) 3294 (24.07%) 3500 (28.53%) 3447 (27.57%) 3332 (22.28%) 3447 (27.57%) 3332 (22.28%) 3447 (27.57%) 3332 (22.28%) 3447 (27.57%) 3332 (22.28%) 3447 (27.57%) 3331 (26.91%) 3667 (29.24%) 3487 (23.43%) 3361 (19.83%) 3862 (25.76%) 3801 (26.91%) 6232 (14.06%) 5973 (15.29%)                                                                                              | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3394 (24.92%) 3664 (36.77%) 4016 (44.41%) 3926 (36.08%) 3672 (38.31%) 3783 (38.93%)  4142 (44.42%) 3857 (35.83%) 3852 (39.82%) 4001 (48.08%) 3974 (40.67%) 3857 (38.54%) 403 (44.67%) 3857 (38.54%) 4349 (41.62%) 4147 (38.46%)  6818 (24.78%) 6358 (22.72%)                                                                                      | 2493 (29.64%) 3494 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3261 (10.81%) 3365 (16.64%) 3131 (17.93%) 3122 (14.65%) 3442 (20.67%) 3233 (17.35%) 3188 (17.99%) 3429 (25.83%) 3510 (15.64%) 3250 (15.65%) 3452 (16.66%) 360 (10.47%) 5583 (7.76%)                                                                                                                                              | 2469 (28.39%) 3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3265 (15.01%) 3279 (22.4%) 3100 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%) 3044 (11.79%) 3376 (17.71%) 3276 (18.91%) 3057 (13.14%) 3249 (19.23%) 3335 (17.22%) 3392 (20.07%) 3251 (16.77%) 3526 (14.82%) 3590 (19.87%) 5938 (8.67%) 5938 (8.67%) 5639 (8.84%)                                          | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3232 (20.64%) 3378 (21.47%) 3372 (29.36%) 3381 (27.34%) 3352 (23.1%) 3654 (27.41%) 3722 (29.73%) 3536 (28.35%) 3631 (34.38%) 3559 (23.27%) 3555 (24.96%) 3567 (26.27%) 3680 (32.18%) 369 (32.18%) 369 (32.18%) 369 (32.18%) 369 (32.18%) 369 (32.18%) 369 (32.18%) 369 (32.18%) 369 (32.18%)                                                  | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3012 (8.31%) 3180 (8.05%) 3103 (7.56%) 3009 (13.33%) 2909 (6.83%) 3184 (11.02%) 3068 (12.55%) 3004 (9.04%) 2916 (7.92%) 3144 (10.51%) 3120 (10.44%) 2955 (6.14%) 3295 (7.29%) 3336 (11.39%) 5653 (3.46%) 5565 (3.55%)                                                                 | 1923** 2760** 2756** 2717** 2839** 2781** 2943** 2885** 2285** 2723** 2868** 27725** 2845** 28255* 2702** 27725** 2845** 28255** 2792** 27725** 2845** 28255* 2792** 2755** 2845** 28255* 2755** 2845** 28255* 2754** 28255* 2754** 28255* 2754** 2955** 5464** 5181**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 50×20         | TA50  TA51 TA52 TA52 TA53 TA54 TA55 TA56 TA56 TA57 TA58 TA59 TA60  TA61 TA62 TA63 TA63 TA64 TA65 TA66 TA67 TA68 TA69 TA70 TA71 TA72 TA73                      | 2666 (35.95%) 2429 (26.31%) 3856 (39.71%) 3266 (18.51%) 3507 (29.08%) 3142 (10.67%) 3225 (20.38%) 3725 (26.57%) 3365 (16.64%) 3500 (28.53%) 3606 (25.73%) 3639 (26.84%) 3521 (27.8%) 3639 (26.84%) 3521 (27.8%) 3637 (29.24%) 3447 (27.57%) 3332 (22.28%) 3677 (29.24%) 3487 (23.43%) 3862 (25.76%) 3801 (26.91%) 6232 (14.06%) 5973 (15.29%) 6482 (16.42%)                                                                                                                                                         | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3394 (24.92%) 3603 (26.91%) 3664 (36.77%) 4016 (44.41%) 3720 (26.4%) 3926 (36.08%) 3672 (38.31%) 3783 (38.93%)  4142 (44.42%) 3897 (35.83%) 3852 (39.82%) 4001 (48.08%) 4002 (49.06%) 3940 (38.49%) 3974 (40.67%) 3857 (38.54%) 4349 (41.62%) 4147 (38.46%) 6818 (24.78%) 6358 (22.72%) 6967 (25.13%)                                             | 2493 (29.64%) 3435 (24.46%) 3394 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3261 (10.81%) 3365 (16.64%) 3131 (17.93%) 3122 (14.65%) 3432 (16.56%) 3442 (20.67%) 3233 (17.35%) 3482 (7.554%) 3287 (15.54%) 3287 (15.54%) 3293 (15.05%) 3350 (15.6%) 3482 (16.26%) 6036 (10.47%) 5583 (7.76%) 6050 (8.66%)                                                                                       | 2469 (28.39%) 3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3255 (15.01%) 3279 (22.4%) 3100 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%) 3044 (11.79%) 3376 (17.71%) 3417 (19.1%) 3276 (18.91%) 3057 (13.14%) 3249 (19.23%) 3335 (17.22%) 3335 (17.22%) 3355 (17.22%) 3359 (19.87%) 5539 (8.867%) 5539 (8.84%) 6128 (10.06%)                                         | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3232 (20.64%) 3378 (21.47%) 3471 (17.94%) 3732 (29.36%) 3881 (27.34%) 3352 (23.1%) 3654 (27.41%) 3722 (29.73%) 3536 (28.35%) 3536 (28.35%) 3535 (24.96%) 3555 (24.96%) 3555 (24.96%) 3592 (16.97%) 3680 (32.18%) 3692 (16.97%) 3643 (21.64%) 6452 (18.08%) 5695 (9.92%) 6462 (16.06%)                                                         | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3103 (7.56%) 3103 (7.56%) 3103 (7.56%) 3299 (6.83%) 3184 (11.02%) 3229 (12.55%) 3004 (9.04%) 2916 (7.92%) 3068 (12.59%) 3144 (10.51%) 3120 (10.44%) 2955 (6.14%) 3295 (7.29%) 3336 (11.39%) 5653 (3.46%) 5365 (3.55%) 5885 (5.69%)                                                    | 1923** 2760** 2756** 2717** 2781** 2889** 2679** 2781** 2943** 2655** 2723** 2868** 27755** 27725** 27725** 27725** 27755** 27725** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27755** 27 |
| 50×20         | TA50  TA51 TA52 TA53 TA54 TA55 TA56 TA57 TA58 TA59 TA60  TA61 TA62 TA63 TA64 TA65 TA66 TA67 TA68 TA69 TA70  TA71 TA72 TA73 TA74                               | 2666 (35.95%) 2429 (26.31%) 3856 (39.71%) 3266 (18.51%) 3507 (29.08%) 3142 (10.67%) 3225 (20.38%) 3725 (26.57%) 3365 (16.64%) 3294 (24.07%) 3500 (28.53%) 3606 (25.73%) 3639 (26.84%) 3521 (27.8%) 3447 (27.57%) 3332 (22.28%) 3677 (29.24%) 3487 (23.43%) 3862 (25.76%) 3801 (26.91%) 6232 (14.06%) 5973 (15.29%) 6482 (16.42%) 6482 (16.42%) 6062 (13.54%)                                                                                                                                                        | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3394 (24.92%) 3604 (26.91%) 3664 (36.77%) 3720 (26.4%) 3720 (26.4%) 3720 (26.4%) 3783 (38.93%)  4142 (44.42%) 3857 (35.83%) 3852 (39.82%) 4001 (48.08%) 4062 (49.06%) 3940 (38.49%) 3974 (40.67%) 3974 (40.67%) 4147 (38.46%)  6818 (24.78%) 6358 (22.72%) 6818 (24.78%) 6358 (22.72%) 681 (19.52%)                                               | 2493 (29.64%) 3435 (24.46%) 3394 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3261 (10.81%) 3365 (16.64%) 3131 (17.93%) 3122 (14.65%) 3343 (16.56%) 3462 (20.67%) 3233 (17.35%) 3287 (15.54%) 3351 (18.62%) 3287 (15.54%) 3351 (18.62%) 3482 (16.26%) 6036 (10.47%) 5583 (7.76%) 6036 (10.47%) 5583 (7.76%) 6050 (8.66%) 5678 (6.35%)                                                                          | 2469 (28.39%)  3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3255 (15.01%) 3279 (22.4%) 3100 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%) 3376 (17.71%) 3417 (19.1%) 3276 (18.91%) 3251 (18.22%) 3392 (20.07%) 3392 (20.07%) 3526 (14.82%) 3590 (19.87%) 5538 (8.67%) 5639 (8.84%) 6128 (10.06%) 5642 (5.68%)                                                        | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3232 (20.64%) 3378 (21.47%) 3471 (17.94%) 3732 (29.36%) 3381 (27.34%) 3522 (23.1%) 3654 (27.41%) 3722 (29.73%) 3536 (28.35%) 3631 (34.38%) 3535 (24.96%) 3567 (26.27%) 3680 (32.18%) 3690 (32.18%) 3692 (16.97%) 3643 (21.64%) 6452 (18.08%) 5695 (9.92%) 6462 (16.06%) 5885 (10.23%)                                                         | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3103 (7.56%) 3103 (7.56%) 3009 (6.83%) 3184 (11.02%) 3229 (12.55%) 3004 (9.04%) 2916 (7.92%) 3068 (12.55%) 3144 (10.51%) 3129 (10.44%) 3295 (7.29%) 3336 (11.39%) 5653 (3.46%) 5365 (3.55%) 5885 (5.69%) 5885 (5.69%)                                                                 | 1923** 2760** 2756* 2717** 2839* 2679* 2781** 2885* 2655* 2723* 2868** 2755* 2825* 2725* 2845* 2895* 5464* 5538**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 50×20         | TA50  TA51 TA52 TA52 TA53 TA54 TA55 TA56 TA57 TA58 TA59 TA60  TA61 TA62 TA63 TA64 TA65 TA66 TA67 TA68 TA67 TA68 TA69 TA70  TA71 TA72 TA73 TA74 TA75           | 2666 (35.95%) 2429 (26.31%) 3856 (39.71%) 3266 (18.51%) 3266 (18.51%) 3225 (20.38%) 3323 (26.93%) 3725 (26.57%) 3365 (16.64%) 3294 (24.07%) 3500 (28.53%) 3606 (25.73%) 3639 (26.84%) 3447 (27.57%) 3332 (22.28%) 3447 (27.57%) 3332 (22.28%) 3447 (29.24%) 3487 (23.43%) 3336 (19.83%) 3862 (25.76%) 3801 (26.91%) 6232 (14.06%) 5973 (15.29%) 6482 (16.42%) 6062 (13.54%) 6021 (15.34%) 6217 (15.3%)                                                                                                              | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3394 (24.92%) 3664 (36.77%) 4016 (44.41%) 3720 (26.4%) 3720 (26.4%) 3720 (26.4%) 3783 (38.93%)  4142 (44.42%) 3897 (35.83%) 3852 (39.82%) 4001 (48.08%) 3914 (40.67%) 3940 (38.49%) 3957 (38.54%) 4349 (41.62%) 4147 (38.46%) 6818 (24.78%) 6358 (22.72%) 6967 (25.13%) 6381 (19.52%) 6757 (25.32%)                                               | 2493 (29.64%)  3494 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3261 (10.81%) 3365 (16.64%) 3131 (17.93%) 3122 (14.65%) 3343 (16.56%) 3442 (20.67%) 3233 (17.35%) 3188 (17.99%) 3429 (25.83%) 3287 (15.54%) 3351 (18.62%) 3203 (15.05%) 3482 (16.26%)  6036 (10.47%) 5583 (7.76%) 6050 (8.66%) 6056 (8.65%) 6029 (11.81%)                                                                       | 2469 (28.39%)  3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3255 (15.01%) 3279 (22.4%) 3100 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%) 3044 (11.79%) 3376 (17.71%) 3276 (18.91%) 3057 (13.14%) 3249 (19.23%) 3335 (17.22%) 3392 (20.07%) 3251 (16.77%) 3526 (14.82%) 3590 (19.87%)  5938 (8.67%) 5639 (8.84%) 6128 (10.06%) 5642 (5.68%) 6212 (15.21%)            | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3232 (20.64%) 3378 (21.47%) 3372 (29.36%) 3381 (27.34%) 3352 (23.1%) 3654 (27.41%) 3722 (29.73%) 3536 (28.35%) 3631 (34.38%) 3559 (23.27%) 3555 (24.96%) 3567 (26.27%) 3680 (32.18%) 3691 (34.48%) 3692 (16.97%) 3643 (21.64%) 6452 (18.08%) 5695 (9.92%) 6462 (16.06%) 5885 (10.23%) 6355 (17.86%)                                           | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3012 (8.31%) 3180 (8.05%) 3103 (7.56%) 3009 (13.33%) 2909 (6.83%) 3184 (11.02%) 3229 (12.55%) 3004 (9.04%) 2916 (7.92%) 3068 (12.59%) 3144 (10.51%) 3120 (10.44%) 2955 (6.14%) 3295 (7.29%) 3336 (11.39%) 5653 (3.46%) 5365 (3.55%) 5885 (5.69%) 5427 (1.65%) 5790 (7.38%)            | 1923** 2760** 2756* 27576* 27576* 2679* 2679* 26855* 2723** 2868* 27725* 2702* 2725* 2862* 2755* 2702* 2755* 2702* 2755* 2755* 2755* 28655 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* 2755* |
|               | TA50  TA51 TA52 TA52 TA53 TA54 TA55 TA56 TA57 TA58 TA59 TA60  TA61 TA62 TA63 TA64 TA65 TA66 TA67 TA68 TA69 TA70  TA71 TA72 TA73 TA74 TA75 TA76                | 2666 (35.95%) 2429 (26.31%) 3856 (39.71%) 3266 (18.51%) 3266 (18.51%) 327 (29.08%) 3142 (10.67%) 3225 (20.38%) 3530 (26.93%) 3725 (26.57%) 3565 (16.64%) 3294 (24.07%) 3500 (28.53%) 3606 (25.73%) 3639 (26.84%) 3521 (27.8%) 3447 (27.57%) 3332 (22.28%) 3677 (29.24%) 3677 (29.24%) 3801 (26.91%) 3802 (25.76%) 3801 (26.91%) 3606 (25.76%) 3801 (26.91%) 6232 (14.06%) 5973 (15.29%) 6482 (16.42%) 6602 (13.54%) 6370 (19.24%)                                                                                   | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3604 (24.92%) 3603 (26.91%) 3664 (36.77%) 4016 (44.41%) 3720 (26.4%) 3926 (36.08%) 3672 (38.31%) 3783 (38.93%)  4142 (44.42%) 3897 (35.83%) 3852 (39.82%) 4001 (48.08%) 4001 (48.08%) 4001 (48.08%) 4014 (40.67%) 3857 (38.54%) 4349 (41.62%) 4147 (38.46%)  6818 (24.78%) 6638 (22.72%) 6638 (22.72%) 66381 (19.52%) 6757 (25.32%) 6641 (24.32%) | 2493 (29.64%) 3435 (24.46%) 3394 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3261 (10.81%) 3365 (16.64%) 3131 (17.93%) 3122 (14.65%) 3442 (20.67%) 3233 (17.35%) 3482 (17.99%) 3489 (25.83%) 3287 (15.54%) 3287 (15.54%) 3293 (15.05%) 3550 (15.6%) 3482 (16.26%) 6036 (10.47%) 5583 (7.76%) 6050 (8.66%) 5678 (6.35%) 6029 (11.81%) 5887 (10.2%)                                               | 2469 (28.39%) 3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3265 (15.01%) 3279 (22.4%) 3100 (11.47%) 3335 (13.32%) 3420 (18.54%) 3420 (18.54%) 3417 (17.4%) 3376 (17.71%) 3417 (19.1%) 3276 (18.91%) 3375 (13.14%) 3353 (17.22%) 3353 (17.22%) 3353 (17.22%) 3590 (19.87%) 5938 (8.67%) 5639 (8.84%) 6128 (10.06%) 5642 (5.68%) 6212 (15.21%) 5936 (11.12%)               | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3232 (20.64%) 3378 (21.47%) 3471 (17.94%) 3732 (29.36%) 3381 (27.34%) 3352 (23.1%) 3654 (27.41%) 3722 (29.73%) 3536 (28.35%) 3539 (23.27%) 3555 (24.96%) 3555 (24.96%) 3592 (16.97%) 3643 (21.64%) 6452 (18.08%) 5695 (9.92%) 6462 (16.06%) 5885 (10.23%) 6355 (17.86%) 6355 (17.86%) 6351 (14.84%)                                           | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3103 (7.56%) 3103 (7.56%) 3109 (6.83%) 3184 (11.02%) 3229 (12.55%) 3004 (9.04%) 2916 (7.92%) 3068 (12.59%) 3120 (10.44%) 2955 (6.14%) 3295 (7.29%) 3336 (11.39%) 5653 (3.46%) 5365 (3.55%) 5885 (5.69%) 5427 (1.65%) 5790 (7.38%) 5748 (7.6%)                                         | 1923** 2760** 2756* 2756* 2717* 2839** 2679* 2781* 2885* 2655** 2755* 2845* 2869** 3071* 2995** 5464* 55568** 5339* 5342* 5342* 5342*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 50×20         | TA50  TA51 TA52 TA52 TA53 TA54 TA55 TA56 TA57 TA58 TA59 TA60  TA61 TA62 TA63 TA64 TA65 TA66 TA67 TA68 TA69 TA70  TA71 TA72 TA73 TA74 TA75 TA76 TA77           | 2666 (35.95%) 2429 (26.31%) 3856 (39.71%) 3266 (18.51%) 3507 (29.08%) 3142 (10.67%) 3225 (20.38%) 3725 (26.57%) 3365 (16.64%) 3501 (28.53%) 3606 (25.73%) 3609 (26.84%) 3521 (27.8%) 3639 (26.84%) 3521 (27.8%) 3637 (29.24%) 3677 (29.24%) 3677 (29.24%) 3673 (25.75%) 3675 (25.75%) 3675 (25.75%) 3675 (25.75%) 3677 (29.24%) 3677 (29.24%) 3677 (29.24%) 3677 (29.24%) 3671 (26.91%) 6022 (14.06%) 3801 (26.91%) 6032 (14.06%) 5973 (15.29%) 6482 (16.42%) 6062 (13.54%) 6217 (15.3%) 6370 (19.24%) 6045 (11.2%) | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3394 (24.92%) 3603 (26.91%) 3664 (36.77%) 3926 (36.08%) 3672 (38.31%) 3783 (38.93%)  4142 (44.42%) 3897 (35.83%) 3852 (39.82%) 4001 (48.08%) 4062 (49.06%) 3940 (38.49%) 3974 (40.67%) 3974 (40.67%) 4147 (38.46%) 6818 (24.78%) 6358 (22.72%) 6967 (25.13%) 6381 (19.52%) 6757 (25.32%) 6641 (24.32%) 6640 (20.31%)                              | 2493 (29.64%)  3493 (29.64%)  3494 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3261 (10.81%) 3365 (16.64%) 3131 (17.93%) 3122 (14.65%) 3429 (25.83%) 3287 (15.54%) 3351 (18.62%) 3482 (16.26%) 3482 (16.26%) 6036 (10.47%) 5583 (7.76%) 5678 (6.35%) 6029 (11.81%) 5887 (10.2%) 5905 (8.63%)                                                                                                    | 2469 (28.39%)  3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3255 (15.01%) 3279 (22.4%) 3300 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%) 3376 (17.71%) 3417 (19.1%) 3276 (18.91%) 3276 (18.91%) 3355 (17.22%) 3392 (20.07%) 3392 (20.07%) 3593 (8.84%) 6128 (10.06%) 5642 (5.68%) 6212 (15.21%) 5936 (11.12%) 5936 (11.12%) 5936 (11.12%)                           | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3232 (20.64%) 3378 (21.47%) 3471 (17.94%) 3732 (29.36%) 3381 (27.34%) 3522 (23.17%) 3654 (27.41%) 3722 (29.73%) 3536 (28.35%) 3631 (34.38%) 3535 (23.27%) 3555 (24.96%) 3567 (26.27%) 3643 (21.64%) 6452 (18.08%) 5695 (9.92%) 6462 (16.06%) 5885 (10.23%) 6355 (17.86%) 6355 (17.86%) 6056 (11.41%)                                          | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3103 (7.56%) 3103 (7.56%) 3009 (6.83%) 3184 (11.02%) 3229 (12.55%) 3004 (9.04%) 3210 (10.44%) 3295 (6.14%) 3295 (7.29%) 3336 (11.39%) 5553 (3.46%) 5365 (3.55%) 5885 (5.69%) 5427 (1.65%) 5790 (7.38%) 5798 (7.6%) 5588 (2.8%)                                                        | 1923** 2760** 2756* 2717** 2781* 2679* 2679* 2781* 2885* 2655* 2772* 2845* 27725* 2845* 2895* 2795* 5464* 3071* 5399 5392* 5399* 5436*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 50×20         | TA50  TA51 TA52 TA52 TA53 TA54 TA55 TA56 TA56 TA57 TA58 TA59 TA60  TA61 TA62 TA63 TA64 TA65 TA66 TA67 TA68 TA69 TA70  TA71 TA72 TA73 TA74 TA75 TA76 TA77 TA78 | 2666 (35.95%) 2429 (26.31%) 3856 (39.71%) 3266 (18.51%) 3266 (18.51%) 3212 (20.38%) 3322 (20.38%) 3323 (26.93%) 3325 (36.64%) 3365 (16.64%) 3360 (25.73%) 3606 (25.73%) 3639 (26.84%) 3447 (27.57%) 3332 (22.28%) 3447 (27.57%) 3332 (22.28%) 3447 (29.24%) 3487 (23.43%) 3336 (19.83%) 3862 (25.76%) 3801 (26.91%) 6232 (14.06%) 5973 (15.29%) 6482 (16.42%) 6062 (13.54%) 6217 (15.3%) 6370 (19.24%) 6471 (15.3%) 6370 (19.24%) 6443 (11.2%) 6443 (11.2%)                                                         | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3394 (24.92%) 3664 (36.77%) 4016 (44.41%) 3720 (26.4%) 3926 (36.08%) 3672 (38.31%) 3783 (38.93%)  4142 (44.42%) 3897 (35.83%) 3852 (39.82%) 4001 (48.08%) 3940 (38.49%) 3974 (40.67%) 3957 (38.54%) 447 (38.46%)  6818 (24.78%) 6358 (22.72%) 6967 (25.13%) 6381 (19.52%) 6757 (25.32%) 6641 (24.32%) 6540 (20.31%) 6570 (25.14%)                 | 2493 (29.64%)  3493 (29.64%)  3394 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3261 (10.81%) 3365 (16.64%) 3131 (17.93%) 3122 (14.65%)  3343 (16.56%) 34402 (20.67%) 3233 (17.35%) 3188 (17.99%) 3233 (17.35%) 3188 (17.99%) 3233 (15.56%) 3429 (25.83%) 3287 (15.54%) 3351 (18.62%)  6036 (10.47%) 5583 (7.76%) 6050 (8.66%) 5678 (6.35%) 6029 (11.81%) 5887 (10.2%) 5905 (8.63%) 5700 (5.67%) | 2469 (28.39%)  3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3255 (15.01%) 3279 (22.4%) 3100 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%) 3376 (17.71%) 3276 (18.91%) 3057 (13.14%) 329 (20.07%) 3251 (16.77%) 3252 (14.82%) 3359 (19.87%) 5938 (8.67%) 5639 (8.84%) 6128 (10.06%) 5642 (5.68%) 6212 (15.21%) 5936 (11.12%) 5936 (11.12%) 5936 (11.12%) 5886 (9.12%) | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3232 (20.64%) 3378 (21.47%) 3471 (17.94%) 3352 (29.36%) 3381 (27.34%) 3552 (23.1%) 3654 (27.41%) 3722 (29.73%) 3536 (28.35%) 3631 (34.38%) 3552 (23.27%) 3555 (24.96%) 3567 (26.27%) 3680 (32.18%) 3692 (16.97%) 3643 (21.64%) 6452 (18.08%) 5695 (9.92%) 6462 (16.06%) 5885 (10.23%) 6355 (17.86%) 6135 (14.84%) 6056 (11.41%) 6101 (13.11%) | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3012 (8.31%) 3180 (8.05%) 3103 (7.56%) 3009 (13.33%) 2909 (6.83%) 3184 (11.02%) 3229 (12.55%) 3004 (9.04%) 2916 (7.92%) 3068 (12.59%) 3144 (10.51%) 3120 (10.44%) 2955 (6.14%) 3295 (7.29%) 3336 (11.39%) 5653 (3.46%) 5565 (3.55%) 5790 (7.38%) 5748 (7.6%) 5588 (2.8%) 5570 (3.26%) | 1923** 2760* 2756* 27576* 27576* 2717** 2883* 2679* 2723** 2885* 2723** 2886* 2755* 2722* 2868* 3711* 2995* 5464* 5181* 5568* 5392* 5342* 5342* 5394*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 50×20         | TA50  TA51 TA52 TA52 TA53 TA54 TA55 TA56 TA57 TA58 TA59 TA60  TA61 TA62 TA63 TA64 TA65 TA66 TA67 TA68 TA69 TA70  TA71 TA72 TA73 TA74 TA75 TA76 TA77           | 2666 (35.95%) 2429 (26.31%) 3856 (39.71%) 3266 (18.51%) 3507 (29.08%) 3142 (10.67%) 3225 (20.38%) 3725 (26.57%) 3365 (16.64%) 3501 (28.53%) 3606 (25.73%) 3609 (26.84%) 3521 (27.8%) 3639 (26.84%) 3521 (27.8%) 3637 (29.24%) 3677 (29.24%) 3677 (29.24%) 3673 (25.75%) 3675 (25.75%) 3675 (25.75%) 3675 (25.75%) 3677 (29.24%) 3677 (29.24%) 3677 (29.24%) 3677 (29.24%) 3671 (26.91%) 6022 (14.06%) 3801 (26.91%) 6032 (14.06%) 5973 (15.29%) 6482 (16.42%) 6062 (13.54%) 6217 (15.3%) 6370 (19.24%) 6045 (11.2%) | 2995 (55.75%)  3851 (39.53%) 3734 (35.49%) 3394 (24.92%) 3603 (26.91%) 3664 (36.77%) 3926 (36.08%) 3672 (38.31%) 3783 (38.93%)  4142 (44.42%) 3897 (35.83%) 3852 (39.82%) 4001 (48.08%) 4062 (49.06%) 3940 (38.49%) 3974 (40.67%) 3974 (40.67%) 4147 (38.46%) 6818 (24.78%) 6358 (22.72%) 6967 (25.13%) 6381 (19.52%) 6757 (25.32%) 6641 (24.32%) 6640 (20.31%)                              | 2493 (29.64%)  3493 (29.64%)  3494 (23.15%) 3098 (14.02%) 3272 (15.25%) 3188 (19.0%) 3134 (12.69%) 3261 (10.81%) 3365 (16.64%) 3131 (17.93%) 3122 (14.65%) 3429 (25.83%) 3287 (15.54%) 3351 (18.62%) 3482 (16.26%) 3482 (16.26%) 6036 (10.47%) 5583 (7.76%) 5678 (6.35%) 6029 (11.81%) 5887 (10.2%) 5905 (8.63%)                                                                                                    | 2469 (28.39%)  3567 (29.24%) 3303 (19.85%) 3115 (14.65%) 3255 (15.01%) 3279 (22.4%) 3300 (11.47%) 3335 (13.32%) 3420 (18.54%) 3117 (17.4%) 3376 (17.71%) 3417 (19.1%) 3276 (18.91%) 3276 (18.91%) 3355 (17.22%) 3392 (20.07%) 3392 (20.07%) 3593 (8.84%) 6128 (10.06%) 5642 (5.68%) 6212 (15.21%) 5936 (11.12%) 5936 (11.12%) 5936 (11.12%)                           | 2628 (36.66%) 3599 (30.4%) 3341 (21.23%) 3186 (17.26%) 3266 (15.04%) 3232 (20.64%) 3378 (21.47%) 3471 (17.94%) 3732 (29.36%) 3381 (27.34%) 3522 (23.17%) 3654 (27.41%) 3722 (29.73%) 3536 (28.35%) 3631 (34.38%) 3535 (23.27%) 3555 (24.96%) 3567 (26.27%) 3643 (21.64%) 6452 (18.08%) 5695 (9.92%) 6462 (16.06%) 5885 (10.23%) 6355 (17.86%) 6355 (17.86%) 6056 (11.41%)                                          | 2279 (18.51%) 3181 (15.25%) 3029 (9.91%) 2921 (7.51%) 2914 (2.64%) 3050 (13.85%) 3103 (7.56%) 3103 (7.56%) 3009 (6.83%) 3184 (11.02%) 3229 (12.55%) 3004 (9.04%) 3210 (10.44%) 3295 (6.14%) 3295 (7.29%) 3336 (11.39%) 5553 (3.46%) 5365 (3.55%) 5885 (5.69%) 5427 (1.65%) 5790 (7.38%) 5798 (7.6%) 5588 (2.8%)                                                        | 1923** 2760** 2756** 2717** 2839** 2679** 2781** 2885** 2555* 2252* 22868** 27725** 2845** 2895* 5464** 5339** 5392* 53436**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

Table 12: Results on DMU benchmark.

|       | Instance       | SPT                            | FDD/WKR                         | MWKR                            | MOPNR                          | Zhang et al.                          | ACL                                    | UB             |
|-------|----------------|--------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------------|----------------------------------------|----------------|
| 20×15 | DMU1           | 4516 (76.2%)                   | 3535 (37.92%)                   | 3988 (55.6%)                    | 3882 (51.46%)                  | 3323 (29.65%)                         | 3107 (21.23%)                          | 2563*          |
|       | DMU2           | 4593 (69.73%)                  | 3847 (42.17%)                   | 4555 (68.33%)                   | 3884 (43.53%)                  | 3630 (34.15%)                         | 3272 (20.92%)                          | 2706*          |
|       | DMU3           | 4438 (62.5%)                   | 4063 (48.77%)                   | 4117 (50.75%)                   | 3979 (45.7%)                   | 3660 (34.02%)                         | 3270 (19.74%)                          | 2731*          |
|       | DMU4           | 4533 (69.84%)                  | 4160 (55.86%)                   | 3995 (49.68%)                   | 4079 (52.83%)                  | 3816 (42.97%)                         | 3138 (17.57%)                          | 2669*          |
|       | DMU5           | 4420 (60.79%)                  | 4238 (54.17%)                   | 4977 (81.05%)                   | 4116 (49.73%)                  | 3897 (41.76%)                         | 3290 (19.68%)                          | 2749*          |
|       | DMU41          | 5283 (62.65%)                  | 5187 (59.7%)                    | 5377 (65.55%)                   | 5070 (56.1%)                   | 4316 (32.88%)                         | 3807 (17.21%)                          | 3248*          |
|       | DMU42          | 5354 (57.94%)                  | 5583 (64.69%)                   | 6076 (79.23%)                   | 4976 (46.78%)                  | 4858 (43.3%)                          | 4027 (18.79%)                          | 3390*          |
|       | DMU43          | 5328 (54.84%)                  | 5086 (47.81%)                   | 4938 (43.5%)                    | 5012 (45.66%)                  | 4887 (42.02%)                         | 4159 (20.87%)                          | 3441*          |
|       | DMU44          | 5745 (64.71%)                  | 5550 (59.12%)                   | 5630 (61.41%)                   | 5213 (49.46%)                  | 5151 (47.68%)                         | 4109 (17.8%)                           | 3488*          |
|       | DMU45          | 5305 (62.13%)                  | 5414 (65.46%)                   | 5446 (66.44%)                   | 4921 (50.4%)                   | 4615 (41.05%)                         | 3921 (19.83%)                          | 3272*          |
|       | DMU6           | 6230 (92.05%)                  | 5258 (62.08%)                   | 5556 (71.27%)                   | 4747 (46.33%)                  | 4358 (34.34%)                         | 3830 (18.06%)                          | 3244*          |
|       | DMU7           | 5619 (84.47%)                  | 4789 (57.22%)                   | 4636 (52.2%)                    | 4367 (43.37%)                  | 3671 (20.52%)                         | 3488 (14.51%)                          | 3046*          |
|       | DMU8           | 5239 (64.34%)                  | 4817 (51.1%)                    | 5078 (59.28%)                   | 4480 (40.53%)                  | 4048 (26.98%)                         | 3716 (16.56%)                          | 3188*          |
| 20    | DMU9           | 4874 (57.63%)                  | 4675 (51.2%)                    | 4519 (46.15%)<br>4963 (66.32%)  | 4519 (46.15%)<br>4133 (38.51%) | 4482 (44.95%)                         | 3542 (14.55%)                          | 3092*          |
| 20×20 | DMU10<br>DMU46 | 4808 (61.13%)<br>6403 (58.69%) | 4149 (39.04%)<br>5778 (43.2%)   | 6168 (52.86%)                   | 6136 (52.07%)                  | 4021 (34.75%)<br>5876 (45.63%)        | 3420 (14.61%)<br>4611 (14.28%)         | 2984*<br>4035* |
| 20    | DMU47          | 6015 (52.7%)                   | 6058 (53.8%)                    | 6130 (55.62%)                   | 5908 (49.99%)                  | 5771 (46.51%)                         | 4521 (14.78%)                          | 3939*          |
|       | DMU48          | 5345 (42.04%)                  | 5887 (56.44%)                   | 5701 (51.5%)                    | 5384 (43.08%)                  | 5034 (33.78%)                         | 4366 (16.02%)                          | 3763*          |
|       | DMU49          | 6072 (63.67%)                  | 5807 (56.52%)                   | 6089 (64.12%)                   | 5469 (47.41%)                  | 5470 (47.44%)                         | 4368 (17.74%)                          | 3710*          |
|       | DMU50          | 6300 (68.95%)                  | 5764 (54.57%)                   | 6050 (62.24%)                   | 5380 (44.27%)                  | 5314 (42.5%)                          | 4427 (18.72%)                          | 3729*          |
|       | DMU11          | 5864 (70.96%)                  | 4798 (39.88%)                   | 4961 (44.64%)                   | 4891 (42.59%)                  | 4435 (29.3%)                          | 4031 (17.52%)                          | 3430*          |
| 30×15 | DMU12          | 5966 (70.7%)                   | 5595 (60.09%)                   | 5994 (71.5%)                    | 4947 (41.55%)                  | 4864 (39.17%)                         | 4033 (15.39%)                          | 3495*          |
|       | DMU13          | 5744 (56.04%)                  | 5324 (44.63%)                   | 6190 (68.16%)                   | 4979 (35.26%)                  | 4918 (33.6%)                          | 4273 (16.08%)                          | 3681*          |
|       | DMU14          | 5469 (61.14%)                  | 4830 (42.31%)                   | 5567 (64.02%)                   | 4839 (42.58%)                  | 4130 (21.69%)                         | 3862 (13.79%)                          | 3394*          |
|       | DMU15          | 5518 (65.06%)                  | 4928 (47.41%)                   | 5299 (58.51%)                   | 4653 (39.19%)                  | 4392 (31.38%)                         | 3913 (17.05%)                          | 3343*          |
| 30    | DMU51          | 6538 (56.9%)                   | 7002 (68.03%)                   | 6841 (64.17%)                   | 6691 (60.57%)                  | 6241 (49.77%)                         | 4745 (13.87%)                          | 4167*          |
| (4)   | DMU52          | 7341 (70.29%)                  | 6650 (54.26%)                   | 6942 (61.03%)                   | 6591 (52.89%)                  | 6714 (55.74%)                         | 5083 (17.91%)                          | 4311*          |
|       | DMU53          | 7232 (64.59%)                  | 7170 (63.18%)                   | 7430 (69.09%)                   | 6851 (55.92%)                  | 6724 (53.03%)                         | 5147 (17.14%)                          | 4394*          |
|       | DMU54          | 7178 (64.56%)                  | 6767 (55.14%)                   | 6461 (48.12%)                   | 6540 (49.93%)                  | 6522 (49.52%)                         | 5133 (17.68%)                          | 4362*          |
|       | DMU55          | 6212 (45.45%)                  | 7101 (66.26%)                   | 6844 (60.24%)                   | 6446 (50.92%)                  | 6639 (55.44%)                         | 5000 (17.07%)                          | 4271*          |
| 30×20 | DMU16          | 6241 (66.38%)                  | 5948 (58.57%)                   | 5837 (55.61%)                   | 5743 (53.11%)                  | 4953 (32.04%)                         | 4537 (20.95%)                          | 3751*          |
|       | DMU17          | 6487 (70.08%)                  | 6035 (58.23%)                   | 6610 (73.31%)                   | 5540 (45.25%)                  | 5379 (41.03%)                         | 4657 (22.1%)                           | 3814*          |
|       | DMU18          | 6978 (81.53%)                  | 5863 (52.52%)                   | 6363 (65.53%)                   | 5714 (48.65%)                  | 5100 (32.67%)                         | 4685 (21.88%)                          | 3844*          |
|       | DMU19          | 5767 (53.05%)                  | 5424 (43.95%)                   | 6385 (69.45%)                   | 5223 (38.61%)                  | 4889 (29.75%)                         | 4444 (17.94%)                          | 3768*          |
|       | DMU20          | 6910 (86.25%)                  | 6444 (73.69%)                   | 6472 (74.45%)                   | 5530 (49.06%)                  | 4859 (30.97%)                         | 4443 (19.76%)                          | 3710*          |
|       | DMU56          | 7698 (55.8%)                   | 8248 (66.93%)                   | 7930 (60.49%)                   | 7620 (54.22%)                  | 7328 (48.31%)                         | 5926 (19.94%)                          | 4941*          |
|       | DMU57          | 7746 (66.4%)                   | 7694 (65.28%)                   | 7063 (51.73%)                   | 7345 (57.79%)                  | 6704 (44.02%)                         | 5493 (18.0%)                           | 4655*          |
|       | DMU58<br>DMU59 | 7269 (54.4%)<br>7114 (53.85%)  | 7601 (61.45%)<br>7490 (61.98%)  | 7708 (63.72%)<br>7335 (58.63%)  | 7216 (53.27%)<br>7589 (64.12%) | 6721 (42.76%)<br>7109 (53.74%)        | 5566 (18.22%)<br>5659 (22.38%)         | 4708*<br>4624* |
|       | DMU60          | 8150 (71.4%)                   | 7526 (58.28%)                   | 7547 (58.72%)                   | 7399 (55.6%)                   | 6632 (39.47%)                         | 5650 (18.82%)                          | 4755*          |
| 40×15 | DMU21          | 7400 (68.95%)                  | 6416 (46.48%)                   | 6314 (44.16%)                   | 6048 (38.08%)                  | 5317 (21.39%)                         | 5254 (19.95%)                          | 4380*          |
|       | DMU22          | 7353 (55.62%)                  | 6645 (40.63%)                   | 6980 (47.72%)                   | 6351 (34.41%)                  | 5534 (17.12%)                         | 5495 (16.3%)                           | 4725*          |
|       | DMU23          | 7262 (55.57%)                  | 6781 (45.27%)                   | 6472 (38.65%)                   | 6004 (28.62%)                  | 5620 (20.39%)                         | 5421 (16.13%)                          | 4668*          |
|       | DMU24          | 6799 (46.28%)                  | 6582 (41.61%)                   | 7079 (52.3%)                    | 6155 (32.42%)                  | 5753 (23.77%)                         | 5441 (17.06%)                          | 4648*          |
|       | DMU25          | 6428 (54.37%)                  | 5756 (38.23%)                   | 6042 (45.1%)                    | 5365 (28.84%)                  | 4775 (14.67%)                         | 4872 (17.0%)                           | 4164*          |
| ĝ     | DMU61          | 7817 (51.14%)                  | 8757 (69.32%)                   | 8734 (68.87%)                   | 8076 (56.15%)                  | 8203 (58.6%)                          | 6081 (17.58%)                          | 5172*          |
| -     | DMU62          | 7759 (47.37%)                  | 8082 (53.5%)                    | 8262 (56.92%)                   | 8253 (56.75%)                  | 8091 (53.68%)                         | 6167 (17.13%)                          | 5265*          |
|       | DMU63          | 8296 (55.76%)                  | 8384 (57.42%)                   | 8364 (57.04%)                   | 8417 (58.04%)                  | 8031 (50.79%)                         | 6301 (18.31%)                          | 5326*          |
|       | DMU64          | 8444 (60.84%)                  | 8490 (61.71%)                   | 8406 (60.11%)                   | 8161 (55.45%)                  | 7738 (47.39%)                         | 6087 (15.94%)                          | 5250*          |
|       | DMU65          | 8454 (62.89%)                  | 8307 (60.06%)                   | 8189 (57.78%)                   | 8225 (58.48%)                  | 7577 (45.99%)                         | 6200 (19.46%)                          | 5190*          |
|       | DMU26          | 7766 (67.12%)                  | 7240 (55.8%)                    | 7107 (52.94%)                   | 6236 (34.19%)                  | 5946 (27.95%)                         | 5771 (24.19%)                          | 4647*          |
|       | DMU27          | 7501 (54.72%)                  | 6965 (43.67%)                   | 7313 (50.85%)                   | 6936 (43.07%)                  | 6418 (32.38%)<br>5986 (27.58%)        | 6177 (27.41%)<br>5976 (27.37%)         | 4848*<br>4692* |
| 40×20 | DMU28<br>DMU29 | 8621 (83.74%)<br>8052 (71.65%) | 6516 (38.87%)                   | 8194 (74.64%)                   | 6714 (43.09%)<br>6990 (49.01%) |                                       |                                        |                |
|       | DMU30          | 7372 (55.79%)                  | 6971 (48.6%)<br>6910 (46.03%)   | 7448 (58.77%)<br>7890 (66.74%)  | . ,                            | 6051 (28.99%)<br><b>5988 (26.54%)</b> | 5767 (22.94%)                          | 4691*<br>4732* |
|       | DMU66          | 8971 (56.92%)                  | 9606 (68.03%)                   | 8966 (56.83%)                   | 6869 (45.16%)<br>8726 (52.63%) | 8475 (48.24%)                         | 6015 (27.11%)<br><b>7217 (26.24%</b> ) | 5717*          |
|       | DMU67          | 9096 (56.48%)                  | 9103 (56.6%)                    | 9306 (60.09%)                   | 9372 (61.22%)                  | 8832 (51.94%)                         | 7152 (23.03%)                          | 5813*          |
|       | DMU68          | 9265 (60.49%)                  | 9431 (63.36%)                   | 9445 (63.61%)                   | 8722 (51.08%)                  | 8693 (50.58%)                         | 7181 (24.39%)                          | 5773*          |
|       | DMU69          | 9215 (61.41%)                  | 9951 (74.3%)                    | 9450 (65.53%)                   | 8697 (52.34%)                  | 8634 (51.23%)                         | 7175 (25.68%)                          | 5709*          |
| _     | DMU70          | 9522 (61.69%)                  | 9416 (59.89%)                   | 9490 (61.15%)                   | 9445 (60.38%)                  | 8735 (48.33%)                         | 7410 (25.83%)                          | 5889*          |
|       | DMU31          | 8869 (57.25%)                  | 7899 (40.05%)                   | 8147 (44.45%)                   | 7192 (27.52%)                  | 7156 (26.88%)                         | 6895 (22.25%)                          | 5640*          |
| 50×15 | DMU32          | 7814 (31.84%)                  | 7316 (23.44%)                   | 8004 (35.04%)                   | 7267 (22.61%)                  | 6506 (9.77%)                          | 7231 (22.0%)                           | 5927*          |
|       | DMU33          | 8114 (41.66%)                  | 7262 (26.78%)                   | 7710 (34.6%)                    | 7069 (23.41%)                  | 6192 (8.1%)                           | 7076 (23.53%)                          | 5728*          |
|       | DMU34          | 7625 (41.6%)                   | 7725 (43.45%)                   | 7709 (43.16%)                   | 6919 (28.49%)                  | 6257 (16.19%)                         | 6598 (22.53%)                          | 5385*          |
|       | DMU35          | 8626 (53.08%)                  | 7099 (25.98%)                   | 7617 (35.17%)                   | 7033 (24.81%)                  | 6302 (11.84%)                         | 6906 (22.56%)                          | 5635*          |
| 50    | DMU71          | 9594 (53.92%)                  | 10889 (74.7%)                   | 9978 (60.08%)                   | 9514 (52.64%)                  | 9797 (57.18%)                         | 7441 (19.38%)                          | 6233*          |
|       | DMU72<br>DMU73 | 9882 (52.43%)                  | 11602 (78.96%)                  | 10135 (56.33%)                  | 10063 (55.22%)                 | 9926 (53.11%)                         | 7864 (21.3%)                           | 6483*          |
|       | DMU73<br>DMU74 | 9953 (61.5%)<br>9866 (58.62%)  | 10212 (65.7%)<br>10659 (71.37%) | 9721 (57.73%)<br>10086 (62.15%) | 9615 (56.01%)<br>9536 (53.31%) | 9933 (61.17%)                         | 7591 (23.17%)<br>7398 (18.94%)         | 6163*<br>6220* |
|       | DMU74<br>DMU75 | 9411 (51.86%)                  | 10839 (74.91%)                  | 9953 (60.61%)                   | 10157 (63.9%)                  | 9833 (58.09%)<br>9892 (59.63%)        | 7421 (19.75%)                          | 6197*          |
| 50×20 | DMU36          | 9911 (76.32%)                  | 8084 (43.82%)                   | 8090 (43.92%)                   | 7703 (37.04%)                  | 7470 (32.89%)                         | 6339 (12.77%)                          | 5621*          |
|       | DMU37          | 8917 (52.4%)                   | 9433 (61.22%)                   | 9685 (65.53%)                   | 7844 (34.06%)                  | 7296 (24.7%)                          | 6815 (16.48%)                          | 5851*          |
|       | DMU38          | 9384 (64.26%)                  | 8428 (47.52%)                   | 8414 (47.28%)                   | 8398 (47.0%)                   | 7410 (29.7%)                          | 6424 (12.45%)                          | 5713*          |
|       | DMU39          | 9221 (60.45%)                  | 8177 (42.28%)                   | 9266 (61.23%)                   | 7969 (38.66%)                  | 6827 (18.79%)                         | 6592 (14.7%)                           | 5747*          |
|       | DMU40          | 9406 (68.66%)                  | 7773 (39.38%)                   | 8261 (48.13%)                   | 8173 (46.55%)                  | 7325 (31.34%)                         | 6398 (14.72%)                          | 5577*          |
|       | DMU76          | 11677 (71.39%)                 | 11576 (69.91%)                  | 10571 (55.16%)                  | 11019 (61.73%)                 | 9698 (42.35%)                         | 7905 (16.03%)                          | 6813*          |
|       | DMU77          | 10401 (52.46%)                 | 11910 (74.58%)                  | 11148 (63.41%)                  | 10577 (55.04%)                 | 10693 (56.74%)                        | 7773 (13.94%)                          | 6822*          |
|       | DMU78          | 10585 (56.35%)                 | 11464 (69.34%)                  | 10540 (55.69%)                  | 10989 (62.32%)                 | 9986 (47.5%)                          | 7912 (16.87%)                          | 6770*          |
|       | DMU79          | 11115 (59.47%)                 | 11035 (58.32%)                  | 11201 (60.7%)                   | 10729 (53.93%)                 | 10936 (56.9%)                         | 7925 (13.7%)                           | 6970*          |
|       | DMU80          | 10711 (60.2%)                  | 11116 (66.26%)                  | 10894 (62.94%)                  | 10679 (59.72%)                 | 9875 (47.7%)                          | 7686 (14.96%)                          | 6686*          |