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Department of Industrial and Manufacturing Engineering

# ALLOCATIVE DATA ENVELOPMENT ANALYSIS WITH UNCERTAINTY

A Thesis in

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by

Renee Desing



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The thesis of Renee Desing was reviewed and approved* by the following:

M. Jeya Chandra
Professor of Industrial Engineering
Professor in Charge of Academic Programs and Graduate Program Coordinator
Thesis Advisor

Jack C. Hayya
Professor Emeritus of Supply Chain and Information Systems

Paul Griffin
Professor of Industrial Engineering
Head of the Harold and Inge Marcus Department of Industrial and Manufacturing Engineering

*Signatures are on file in the Graduate School

# ABSTRACT

An important objective of managers is to evaluate the performance of their organization in order to continuously improve and grow. One measure is to compute the performance efficiency of each unit within their organization. Data Envelopment Analysis is a specific technique that optimizes and computes the efficiency of decision making units (DMUs) relative to the other units within the organization, using deterministic data collected from past performance results. From these efficiency values, DMUs will be determined to be either efficient or inefficient.

Specifically for a health care organization, managers evaluate the operating performance of the units within their organization based on the resources and expenditures used, and the revenue generated from the services that they provide. Allocation Models are especially useful for these types of evaluations, because they look only at units of dollars and the allocation of budgets and resources.

While it is vital to evaluate past performance, as in the traditional DEA model, it is also important to understand and predict future performance. This thesis, therefore, proposes the use of Allocative Data Envelopment Analysis to consider the uncertainty of future results, with one specific application being the health care industry. There are three types of models considered: Cost Allocation Model, Revenue Allocation Model, and Profit Allocation Model. These models optimize and evaluate the performance of a DMU based on its cost efficiency, revenue efficiency, and profit efficiency, respectively. Methods are also proposed in order to make recommendations to the decision maker to allow for the inefficient units to become efficient. While this thesis focuses on data that follows a discrete distribution, a method is proposed that considers data that follows a continuous distribution. A numerical example is provided to demonstrate the use of these models.

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# Chapter 1

# Introduction

## 1.1 Problem Statement

Efficient utilization of resources and minimizing cost are important objectives that many organizations tackle year after year. Methods such as regression and simulation exist that allow an organization to analyze the efficiency of their past performance. Another method ranks the decision making units within the organization by their bottom line budget and how much revenue was generated at that facility. Data envelopment analysis is a common method which looks specifically at the efficiency level. From these analyses, a decision maker or manager may see recommendations of how to become more efficient or how to reach an optimal efficiency level. These analytical methods work well to analyze past performance and are important and vital to the decision makers when looking towards the future, especially when it comes to budget allocation. The efficient utilization and cost minimization objectives, however, can be difficult to manage under uncertain future situations. Even if a specific unit was efficient last year, this does not guarantee future performance and efficiency for the following year.

Specifically in a health care system, the performance of each clinic is analyzed for its efficiency relative to the other clinics within the same organization. Data is collected at each clinic regarding the types of resources they use and the services they provide. For best analytical results, clinics should be grouped by those that have the same types of data available, such as those that offer the same types of services, which is difficult given the differences of data between the clinics. Another difference between the clinics is their reimbursement methodology,

where revenue is dictated by a contractual relationship. For example, a service may or may not be billed as part of the hospital, and the same service will generate different revenue at different clinics. Each clinic also represents a mix of accepted medical insurance policies, which affects the amount of revenue generated. For example, if there are proportionately more patients that use Medicare at one clinic compared to another clinic, there could be the same number of patients served as the other clinic, but less revenue is generated. Another problem is the existence of unique clinics that perform specific services that other clinics do not. These clinics do not fit into any of the subgroups created within which the efficiencies are compared. Currently, the performance of these unique clinics is evaluated solely by their return on investment. With regard to the physical facility, each clinic building may have a different cost structure. This is because the facilities were initially built to system specifications of the services provided.

A model is needed to predict the future performance and efficiency level of the decision making units, taking into account the resources and services available to group the units into similarly performing subgroups and the cost structure of each facility.

## 1.2 Literature Review

### 1.2.1 Health Care Efficiency Measures

Many methods have been used to calculate the efficiency of a health care system. Tsai, Chang, and Lin (2010) apply a fuzzy analytical hierarchy process (FAHP) to analyze the efficiency of Taiwan's hospital accreditation policy. After incorporating the Delphi method into the FAHP and performing sensitivity analyses, Tsai et al. find that FAHP provides a more accurate and realistic performance score than the method previously used. They also propose that

hospitals can look at their scores and develop programs in order to increase their performance level.

Oliveira and Bevan (2008) apply allocative efficiency measures to hospital costs in Portugal. They report a new approach that takes into account "unavoidable costs", costs that are outside the control of the manager, and use it with methods for allocating resources. The model developed identifies different causes of allocative inefficiencies, and produces three estimates of causes of unavoidable costs. They find that after summing these estimates, 78% of costs of national hospitals were "unavoidable" and should not have been taken into account during resource allocation.

Ippoliti and Falavigna (2012) analyze the efficiency of the twenty-one medical care suppliers in Italy, taking into account the effects of clinical research on this efficiency. The goal of their method is to maximize the perceived quality of health treatments, where technical efficiency is computed using a truncated regression model, data envelopment analysis, and Malmquist productivity indices, which are the ratios between outputs and inputs considering changes in time. Ippoliti and Falavigna find that increasing the perceived quality of treatments at a medical care supplier also increases its efficiency.

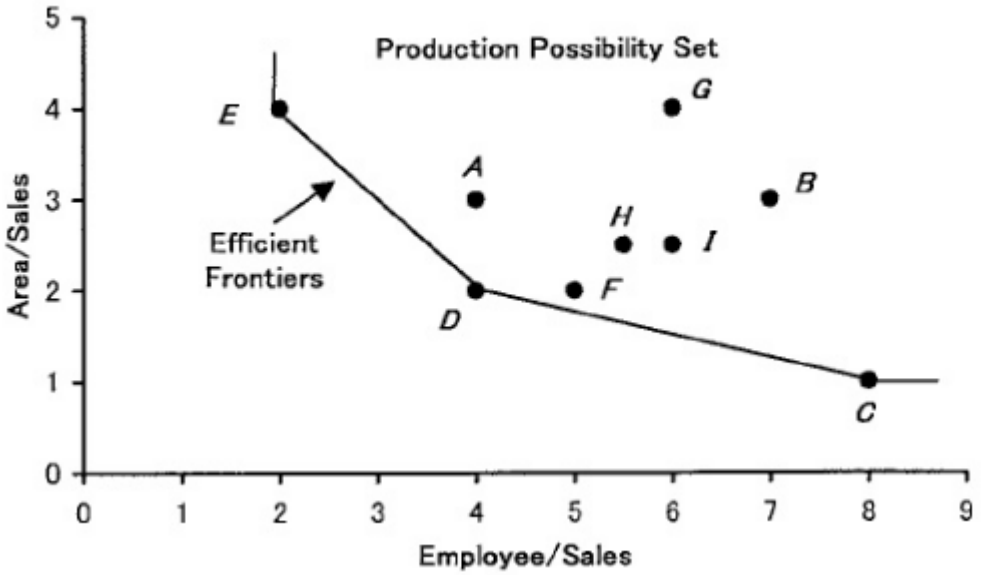
Zuckerman, Hadley, and Iezzoni (1994) use a frontier cost function to measure the efficiency of hospitals. They take into account an assessment of the relationship between profit and efficiency, as well as the relationship between quality and cost in the measurement of efficiency. Zuckerman et al. propose that there is a tradeoff between increasing production efficiency and reducing the quality of care. They define inefficiency as "using the minimum technically feasible total cost for each quantity and mix of total output and level of quality as a reference point". Because there is no uniformity amongst the hospitals, variations of the mix and number of hospital outputs should be taken into account, as well as the severity of the patients' illnesses, the quality of care, and the patient outcomes. The stochastic frontier estimation

technique used in this study allows for hospital-specific measures of efficiency. Through their study, Zuckerman et al. find that hospital occupancy rates are inversely related to inefficiency, that increasing the number of beds will generate a higher relative efficiency, having a higher average salary of employees at a hospital will increase inefficiency, that increasing the intensity of the use of inputs will also increase hospital inefficiency, and that competition between hospitals only represents a weak relationship to inefficiency. Therefore, Zuckerman et al. suggest that to increase savings, the hospital system should be restructured by shifting services from inefficient to efficient hospitals.

### 1.2.2 Data Envelopment Analysis and Allocation Model

Data Envelopment Analysis (DEA) was first developed by Charnes, Cooper, and Rhodes (1978). The objective that they proposed is to measure the efficiency of resource utilization of a decision making unit (DMU) relative to other similar DMUs within an organization that have multiple inputs and outputs. According to Charnes et al., efficiency is obtained by the maximum ratio of weighted outputs to weighted inputs subject to the condition that the similar ratios for every DMU be less than or equal to one. One advantage of DEA is that the units of the inputs and outputs do not need to be the same or of the same magnitude. Once relative efficiency values are obtained for each DMU, an efficient frontier is determined, which becomes important when making recommendations for the inefficient units to become efficient. The efficient frontier, according to Charnes et al., is represented by efficient units, and will envelop the inefficient units, thus giving DEA its name. All points along the efficient frontier represent a 100% relative efficiency. An example of an efficient frontier for a two inputs and one output model is shown in Figure 1-1. The DMUs C, D, and E are the efficient units, and create the efficient frontier, while

DMUs A, B, F, G, H, and I are the inefficient units. If the inefficient units move to any point along the efficient frontier, they will become efficient.




Source: Charnes et al. (1978)

Figure **1-1**: Efficient Frontier for Model with Two Inputs and One Output

The efficient frontier also helps determine the reference set for the inefficient units, which represent the efficient DMUs to which the inefficient DMU most closely behaves, and will differ for each inefficient DMU. For example, in Figure 1-1 the reference set for DMU A consists of DMUs D and E, because they are the efficient DMUs which most closely resemble DMU A. Therefore, if DMU A were to operate completely like DMUs D or E, or any combination of these as represented by the line between them, then DMU A will become an efficient DMU. These are the types of recommendations that can be made to decision makers to help them improve the efficiency of their inefficient units.

An extension of DEA includes the family of Allocation Models, which include the cost, revenue, and profit allocation models, as detailed by Cooper, Seiford, and Tone (2006). The

objective of these models is to obtain a cost, revenue, and profit efficiency, respectively, where the inputs and outputs are all in dollar units. Suhaimi, Abdullah, Nee, and Ibrahim (2012), Brissimis, Delis, and Tsionas (2010), and Hartman, Storbeck, and Byrnes (2001) have all applied the allocation model to banking.

Suhaimi et al. (2012) specifically use profit efficiency frontier estimates for commercial banks in Malaysia. They measure efficiency by how close a bank comes to earning maximum profits given its output levels rather than its output prices, and find that the banks have lower profit efficiency as they expand in size.

Brissimis et al. (2010) break down cost efficiency into its technical and allocative efficiency components, where technical efficiency reflects the ability of a DMU to obtain maximal output from a given set of inputs, and allocative efficiency reflects the ability of a DMU to use the inputs in optimal proportions, given their respective prices. They have applied this to compare banks in European countries and find that allocative efficiency increases on average more than technical efficiency over time, and both contribute to the overall cost efficiency. Brissimis et al. propose that allocative efficiency should be modeled within a stochastic profit efficiency framework.

Hartman et al. (2001) apply and analyze technical and allocative efficiencies to bank branches in Sweden. They define relative efficiency as a branch being able to generate the same amount of revenue using fewer resources, and thus their objective is to minimize cost inputs. Hartman et al. propose that distinguishing between technical and allocative efficiencies can offer important guidelines in the redesign of the banking process, because the analysis focuses on the "proper mix of things" as well as "how well things are managed".

### 1.2.3 Data Envelopment Analysis in Health Care

Data Envelopment Analysis (DEA) has been applied to health care systems in different settings with many advantages. Huang and McLaughlin (1989) find that DEA worked well for heterogeneous rural primary health care clinics. Another advantage they find is DEA's flexibility, especially with its multi-output model and use of results in further analyses.

Benneyan, Ceyhan, and Sunnetci (2007) applied DEA to analyze and compare the efficiencies of the health care systems for the countries of the World Health Organization (WHO). Of the 193 countries for which the WHO recorded data, 180 contained data for all the input and output fields. DEA was used to identify whether a country was efficient or not. If it was inefficient, the reference set was included, which is the set of efficient countries to which that country's performance most closely resembles. Benneyan et al. propose that DEA might be useful for policy making, benchmarking, and reform of a health care system.

Sheikhzadeh, Roudsari, Vahidi, Emrouznejad, and Dastgiri (2012) use DEA to measure allocative and cost efficiencies of public and private hospital services reform in Iran. Their objectives are to evaluate the efficiencies of the public and private hospitals, identify the highest and lowest efficiencies for benchmarking, and apply reforms to save money, time, and resources to increase a hospital's efficiency, and thus increase the efficiency of the health care system. Sheikhzadeh et al. evaluate technical efficiency, which ensures no resources are wasted, allocative efficiency, which ensures resources are used to produce outputs with the highest possible value, and cost efficiency, which is the technical efficiency value multiplied by the allocative efficiency value. Results find that public hospitals are more efficient than private ones, and they propose recommendations to increase the efficiency of the inefficient units, thus reforming and redesigning the health care system.

Athanassopoulos and Gounaris (2001) also employ technical and allocative efficiencies to analyze resource allocations of hospital operations in Greece. Technical efficiency's purpose is described as yielding information about the efficiency with which a unit converts its input resources into outputs, while allocative efficiency's purpose is to gauge efficiency improvements by means of resource allocation, looking specifically at how the uncertainty of input prices affects allocative efficiency. Athanassopoulos and Gounaris divide allocative efficiency into its macro and micro components that distinguish between the levels of decision making required for resource allocation. They describe macro-allocative efficiency as relating to the distribution and mix of resources within the health care industry as compared with other industries, while micro-allocative efficiency relates a hospital's resources to its ability to respond efficiently to the demand for services, which is where their research focuses. To account for inputs with unknown prices, the model output is divided into two different measures: their model gives estimates of resource levels for inputs with *known* prices, and overall cost levels for inputs with *unknown* prices. Athanassopoulos and Gounaris propose that inefficiencies must be addressed with structural changes within the operations of the health care organization.

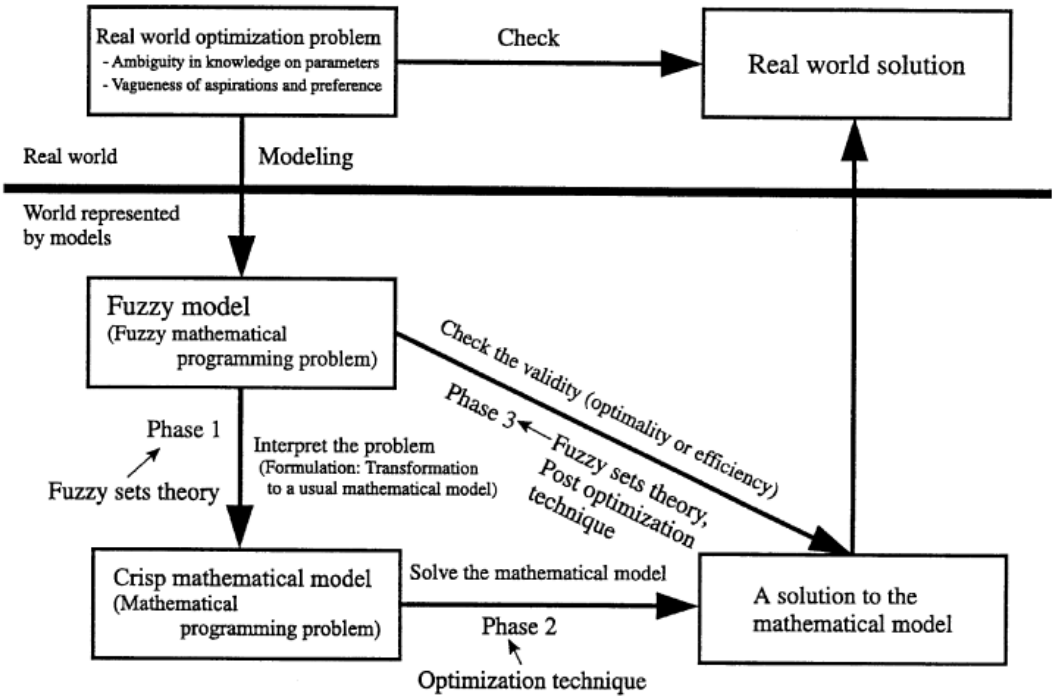
Al-Shayea (2011) applies Data Envelopment Analysis (DEA) to measuring hospital efficiencies in Saudi Arabia with the purpose of providing managers of health care centers a way to test the performance of their departments to meet the needs and quality of service of out-patients and in-patients. Health care managers also wish to know the performance of their health care organization as compared to their competitors. Al-Shayea believes that DEA is the best approach to comparative performance assessment for health care managers, and is a powerful and easily understandable tool that can be used to guide improvement measures. The author makes sure to point out that DEA produces relative efficiency scores, where a unit's performance is only compared to the other unit's in the analysis, and is thus the best tool for determining rankings of the units. Al-Shayea's analysis specifically looked at the efficiency of different departments

within the same hospital, looking at the efficiency per department per month over the course of 12 months, showing that three of the nine departments were 100% efficient every month. The results helped the hospital's manager to address those departments with low efficiencies.

Data Envelopment Analysis is used for multiple applications of deterministic data, including the health care industry. In order to be able to apply uncertainty to DEA, uncertainty in traditional linear programming is studied.

### 1.2.4 Linear Programming with Uncertainty

Methods have been studied to account for uncertainty in linear programming models, including fuzzy mathematical programming, possibilistic linear programming, and stochastic programming. Inuiguchi and Ramík (2000) look at all three of these methods from a practical point of view. They use a numerical example to show models of fuzzy linear programming, and then compare fuzzy mathematical programming with stochastic programming. Inuiguchi and Ramík point out that there are two types of uncertainties: ambiguity and vagueness, where ambiguity is the situation in which the choice between two or more alternatives is left unspecified, and vagueness is the difficulty of making precise distinctions or boundaries. Fuzzy mathematical programming is divided into three categories: one with vagueness, one with ambiguity, and one with vagueness and ambiguity. In the first, the fuzzy goals and constraints represent the flexibility of the target values of the objective functions and the elasticity of the constraints, respectively. In the second, ambiguity of the coefficients of the objective functions and constraints is treated, but not the fuzzy goals and constraints, and is therefore also known as possibilistic programming. In the third, both considerations from the previous two models are taken into consideration. This fuzzy programming approach and its comparison to reality are illustrated in Figure 1-2.




Source: Inuiguchi and Ramík (2000)

Figure **1-2**: Fuzzy mathematical programming approach

Inuiguchi and Ramík also point out two differences between fuzzy programming and stochastic programming. First, stochastic programming is better used for a problem that follows a multivariate normal distribution, while fuzzy programming is better for a unimodal distribution. Second, a larger number of decision variables take on non-zero values in the optimal solution of a stochastic programming model than a fuzzy one.

Stanciulescu, Fortemps, Installé, and Wertz (2003) propose a multi-objective fuzzy linear programming problem specifically with fuzzy coefficients for the objectives and constraints, which supplies fuzzy solutions to the decision maker. They consider a special case where the decision variables sum up to a constant, which is especially applicable to problems dealing with the allocation of resources where there may be a limited amount of those resources. An

advantage of their model is that the "satisfactory region" of proposed fuzzy solutions provides easily understood views and options to the decision maker, where any option within this region is an appropriate choice.

An alternative method for dealing with uncertainty is proposed by Urli and Nadeau (2004). When there is incomplete information about the uncertain parameters of a problem, scenarios are developed, sometimes assumed to have known probabilities. Urli and Nadeau propose an interactive model where the probabilities of the scenarios are specified according to a ranking by the decision manager of the possibility of the scenarios occurring. Their model, named "PROMISE/scenarios", first transforms the multi-objective stochastic program into a multi-objective deterministic program, taking into account the partially specified probabilities on scenarios from the decision maker to interactively work towards a best compromise solution. Urli and Nadeau find that their method is best suited for problems of small dimensions or problems with a small number of scenarios.

Another approach for undertaking uncertainty in linear programming models is interval programming, as presented by Oliveira and Henggeler Antunes (2007). Interval programming is interesting because it does not require the assumptions of probabilistic distributions as in stochastic programming or possibilistic distributions as in fuzzy programming, and assumes only that information about the range of variation of the parameters is available, specifying interval coefficients. Oliveira and Henggeler Antunes propose two different types of approaches: a satisficing approach and an optimizing approach. In the satisficing approach, each interval objective function is transformed into one or several objective functions, usually using the lower bound, upper bound, and central value of the intervals, to obtain a compromise solution. The optimizing approach extends the concept of efficiency to the interval objective function case, where two types of efficient solutions are presented, "necessarily efficient" and "possibly efficient". These efficient solutions, first defined by Bitran (1980), are that a solution is

necessarily efficient if it is efficient for any given objective function coefficient within its range of variation, while a solution is possibly efficient if it is efficient for at least one of the given objective function coefficients in its range of variation. Oliveira and Henggeler Antunes present examples to show that interval programming is applicable to the uncertainty of real-world situations.

### 1.2.5 Data Envelopment Analysis with Uncertainty

Taking into account the different methods for incorporating uncertainty into linear programming problems, models are developed for uncertainty within Data Envelopment Analysis (DEA) problems, with applications to health care and other industries. Khaki, Sadjadi, Gharakhani, and Rashidi (2012) apply a robust DEA model to problems with uncertain output parameters to public health care centers in Iran. This is done by applying robust optimization techniques to DEA, which uses a control parameter that measures the price of robustness, assuming that the unknown distribution is symmetric. Khaki et al. have found that because it is still a linear model, incorporating the uncertainty does not deteriorate solvability of the model.

Zerafat Angiz, Emrouznejad, and Mustafa (2012) take another approach by developing a discrete fuzzy data envelopment analysis model. This takes into account the uncertainty of input and output variables, where the uncertainty is represented by a triangular membership function. While some fuzzy DEA methods result in an interval efficiency score for each DMU, this model results in a single fuzzy optimal solution, employing multi-objective programming and local α-level concepts. Zerafat Angiz et al. define local α-level as the set of elements that belong to a fuzzy set with degree of at least α. One advantage of this method is that the entire uncertainty is retained in the process of solving the problem. After presenting a numerical example to compare their method with others as well as using different α-levels, Zerafat Angiz et al. determine that

their approach gives a better estimation of efficiency scores than when the data are in interval form, without losing the uncertainty information.

Similar to Khaki et al., Shokouhi, Hatami-Marbini, Tavana, and Saati (2010) also develop a robust DEA optimization model. However, they propose that their model covers the interval approach results with less complexity than the fuzzy approach. Their model looks at uncertainty in both the input and output parameters, which are constrained within an uncertainty set. The model is run multiple times, obtaining efficiency values for different levels of robustness, analyzing an optimistic best case scenario and a pessimistic worst case scenario. This would create a feasible region for each decision making unit (DMU), identifying a range of robustness in which the rankings of the efficiencies of the DMUs occur with high probability.

Another approach taken to account for uncertainty in data envelopment analysis is the application of stochastic programming, as proposed by Retzlaff-Roberts and Morey (1993) and Li (1998). Retzlaff-Roberts and Morey apply goal programming to the allocative DEA model in order to develop a Stochastic Allocative DEA model. Unlike prior stochastic DEA models, this model allows for multiple outputs. Uncertainty is also defined as the amount by which a DMU deviates from the efficient frontier, allowing for all possible sources of uncertainty. The goal programming approach is able to handle this kind of uncertainty, which affects the location of the efficient frontier as well as the location of the DMUs. To demonstrate their model, Retzlaff-Roberts and Morey apply it to an empirical example for hospitals in California.

The stochastic DEA model presented by Li (1998) accounts for the possibility of random variations in the input-output structure. Li defines a stochastic efficiency measure, where a DMU is $\alpha$-stochastically efficient if there is a $100(1-\alpha)$ confidence that it is efficient, where the probability that it is inefficient is less than $\alpha$. The set of all $\alpha$-stochastically efficient points represents the stochastically efficient production frontier. A critical assumption made is that the

random disturbances follow a multivariate symmetric distribution, allowing the efficient frontier to vary randomly as well.

## 1.3 Motivation

This research is motivated by the interest in being able to predict future performance and efficiency of an organization. While analyzing the past with deterministic historical data is very important, especially when trying to understand trends and outliers in performance and why they occurred, it is also important to prepare for the future. This is especially applied to the health care industry, where future performance is unknown, such as the number of patients that will be treated and the types of treatments they will need. A health care system is also restricted by budgeting resources, so knowing the predicted future performance will allow the managers to better allocate their limited resources within their organization. Therefore, it is important to consider questions such as what will be the future performance and efficiency level of an organization and its subsequent units, and how to increase the efficiency of inefficient units given their possible future performance.

## 1.4 Objectives

Research in the area of Data Envelopment Analysis (DEA) has been focused on analyzing the known past performance of organizations and decision making units (DMUs), focusing on the traditional DEA model rather than DEA Allocation Models. Therefore, the goal of this thesis research is to develop a model that will enable the prediction of future performance and efficiency levels of decision making units, specifically applied to a health care system, using DEA Allocation Models. The budget and resources of the system will be used as the inputs into

the model, and the types of services the clinic offers as the output that they produce. Because future input and output values are unknown, the uncertainty of the inputs and outputs will be taken into account using probability distributions. This will generate multiple scenarios, each with a probability of occurrence, for which the DMUs will be analyzed. Once the efficiencies are computed for each decision making unit for each scenario, recommendations will be made to the manager on how to improve the efficiency of inefficient units. The prediction of future performance will be pertinent to decision makers and managers, and will especially be used to better allocate their resources and budget among the clinics within their organization.

## 1.5 Thesis Organization

Chapter One of this thesis contains an introduction, which includes the problem statement, objectives for solving the problem, and a literature review of past research. Chapter Two presents the model formulated to solve the problem stated in Chapter One, including both discrete and continuous cases. Chapter Three shows a numerical example utilizing the model from Chapter Two. Chapter Four summarizes the thesis, presents conclusions, and provides suggestions for further research.

## Chapter 2

# Model Formulation

### 2.1 Introduction

Efficiency is defined as the ratio of the total output produced to the total amount of resources used, and is represented as a percentage. Specifically for a health care system, the resources include investments such as doctors, nurses, medical equipment, and facilities along with their associated costs, and the outputs are the types of services they can provide to their patients at a given price. The objective of a health care system, therefore, is to obtain an optimal efficiency level that utilizes their resources and investments fully, which reduces cost, to provide services to as many patients as possible, thus increasing their revenue.

Data Envelopment Analysis (DEA) is one method in which efficiencies are computed and analyzed for decision making units (DMUs) within an organization, given the inputs and outputs of each DMU. The Allocation Models, specifically, uses the unit cost and unit price of the inputs and outputs to obtain an allocative efficiency for each DMU, of which there are three types. The first is Cost Efficiency, which is calculated by dividing the target minimum cost by the current cost. This measures by how much a DMU falls short of operating at their minimum cost, given the input resources and unit cost per each input. The second is Revenue Efficiency, which is calculated by dividing the current revenue by the target maximum revenue. This measures how much a DMU falls short from obtaining the maximum revenue possible under their current mix of inputs and outputs. The final allocative efficiency measure is Profit Efficiency, where profit is defined as total revenue minus total cost. The Profit Efficiency is calculated by dividing the

current profit by the target maximum profit, which measures how much a DMU falls short from reaching optimal profit levels. Therefore, three models are presented that represent each of these efficiency measures.

While traditional DEA uses deterministic values for the inputs and outputs to measure the efficiency of past performance, this thesis uses uncertain inputs and outputs to predict the efficiency of future performance. This is done by allowing each input and output to realize several possible values, each with an associated probability that that value will occur. The distribution of each of these sets of values can be either discrete or continuous. However, this thesis will focus on the discrete case, with recommendations of how to proceed if the distribution is continuous. Possible scenarios are generated to take into consideration all possible combinations of input and output values. An efficiency score is then computed for each scenario for each DMU relative to the other DMUs, and recommendations will be made for improving the efficiency of inefficient DMUs.

## 2.2 Data Setup and Scenarios

Data collected for each organization will contain the types of inputs and outputs that will be used in the analysis, assuming that data for each input and output type must be available at each DMU. Then for each DMU, the associated costs and prices of each input and output, respectively, are collected. For each input and output, the possible values can be obtained from the expert opinion of the decision maker or manager, or from analysis of historical data. Each of these possible values will have an associated probability of occurrence, which can also be obtained from either the decision maker or historical data. For example, a manager at a health clinic thinks that there will be either 8 doctors or 10 doctors next year on staff, with probabilities of occurrence of 40% and 60%, respectively.

In order to develop the Allocative Models under uncertainty, notations that will be used in the model are defined below:

1. Number of Decision Making Units: $k$
2. DMU being analyzed: $DMU_0$
3. Number of inputs: $m$
4. Number of outputs: $n$
5. Total number of scenarios: S
6. Optimal value for DMU j for scenario s: $Z_{j,s}^{*}, j = 1, \dots k; s = 1, \dots, S$
7. Probability of scenario s: $p_s^{*}, s = 1, \dots, S$
8. Number of possible values of input i for DMU j: $a_{i,j}, i = 1, \dots, m; j = 1, \dots, k$
9. Number of possible values of output r for DMU j: $b_{r,j}, r = 1, \dots, n; j = 1, \dots, k$
10. d[th] Possible value of input i for DMU j: $x_{i,j,d}, i = 1, \dots, m; j = 1, \dots, k; d = 1, \dots, a_{i,j}$
11. f[th] Possible value of output r for DMU j: $y_{r,j,f}, r = 1, \dots, n; j = 1, \dots, k; f = 1, \dots, b_{r,j}$
12. Value of input selected for scenario s: $x_{i,j,s}, i = 1, \dots, m; j = 1, \dots, k; s = 1, \dots, S$
13. Optimal value of input i: $x_i^{*}, i = 1, \dots, m$
14. Optimal value of output r: $y_r^{*}, r = 1, \dots, n$
15. Value of output selected for scenario s: $y_{r,j,s}, r = 1, \dots, n; j = 1, \dots, k; s = 1, \dots, S$
16. Probability of input $x_{i,j,d}$ occurring: $p_{i,j,d}, i = 1, \dots, m; j = 1, \dots, k; d = 1, \dots, a_{i,j}$
17. Probability of output $y_{r,j,f}$ occurring: $q_{r,j,f}, r = 1, \dots, n; j = 1, \dots, k; f = 1, \dots, b_{r,j}$
18. Probability of selected input $x_{i,j,s}$: $p_{i,j,s}, i = 1, \dots, m; j = 1, \dots, k; s = 1, \dots, S$
19. Probability of selected out put $y_{r,j,s}$: $q_{r,j,s}, r = 1, \dots, n; j = 1, \dots, k; s = 1, \dots, S$
20. Unit cost per input i for DMU j: $c_{i,j}, i = 1, \dots, m; j = 1, \dots, k$
21. Unit price per output r for DMU j: $g_{r,j}, r = 1, \dots, n; j = 1, \dots, k$

22. Unit cost per input i for $DMU_0$: $c_{i,0}, i = 1, \dots, m$
23. Unit price per output r for $DMU_0$: $g_{r,0}, r = 1, \dots, n$
24. Dual variable for DMU j: $\lambda_j, j = 1, \dots, k$
25. Input level for the DMU being analyzed: $x_{i,d,0}, i = 1, \dots, m; d = 1, \dots, a_{i,j}$
26. Output level for the DMU being analyzed: $y_{r,f,0}, r = 1, \dots, n; f = 1, \dots, b_{r,j}$

Also needed for model development is the generation method of the scenarios. A scenario is generated by selecting one possible value for each input and output for each DMU. Assuming independence, the probability of that scenario occurring will be the combined probability of each of the input and output values selected, calculated by multiplying the associated individual probabilities of those values. Each scenario is then run through the model, once for each DMU, in order to obtain the efficiency for each DMU under every possible scenario. Equation 2.1 shows how the total number of scenarios for each DMU is calculated, and Equation 2.2 shows how to calculate the total number of scenarios for the problem.

$$Total\ Scenarios\ per\ DMU = \prod_{j=1}^{k} a_{1,j} * a_{2,j} * \dots * a_{m,j} * b_{1,j} * b_{2,j} * \dots * b_{n,j} \qquad (2.1)$$

$$Total\ Number\ of\ Scenarios\ S = Total\ Scenarios\ per\ DMU * k \qquad (2.2)$$

For each of these scenarios, the probability of that scenario occurring, after the input and output values are selected, is also calculated as shown in Equation 2.3.

$$Probability\ of\ a\ Scenario = \prod_{j=1}^{k} p_{1,j,0} * p_{2,j,0} * \dots * p_{m,j,0} * q_{1,j,0} * q_{2,j,0} * \dots * q_{n,j,0} \qquad (2.3)$$

Therefore, when an efficiency value is obtained when a scenario is optimized, it represents that the DMU is at that efficiency level with the probability of that scenario's occurrence. This procedure is completed for each of the Cost, Revenue, and Profit Allocation Models presented in this chapter.

## 2.3 Cost Allocation Model

The Cost Allocation Model computes the relative cost efficiency of each decision making unit (DMU), and compares it to that of all the other DMUs. This will be done for each of the scenarios for which it is being evaluated. The general steps of the model include formulating the model, optimizing each DMU for all of the scenarios, obtaining the cost efficiency value from the current and target costs, comparing the cost efficiency to other DMUs, and proposing recommendations to the decision maker on how to improve efficiency of the inefficient units.

### 2.3.1 Objective Function

The goal of the Cost Allocation Model is to minimize the total cost for $DMU_0$ for the scenario being evaluated. This will take into account the unit cost of each of the inputs for each DMU. The formulation will find the optimal levels for each input, as well as the dual variable values for each DMU, which will be used when determining the reference set of the DMU. The objective function used in each scenario is shown in Equation 2.4.

$$Minimize\ Z_{0.s} = \sum_{i=1}^{m} c_{i,0} * x_i^* \tag{2.4}$$

### 2.3.2 Constraints

The objective function in Equation 2.4 is subject to certain constraints for each input and output variable, based on the optimal input levels and the current output levels. The constraints also depend on the scenario chosen, at its respective input and output values for each DMU. These constraints are shown in Equations 2.5 and 2.6. The non-negativity constraint for all of the variables is shown in Equation 2.7.

$$For\ every\ input\ variable\ i, \tag{2.5}$$

$$\sum_{j=1}^{k} \lambda_j * x_{i,j,s} \leq x_i^*$$

$$For\ every\ output\ variable\ r, \tag{2.6}$$

$$\sum_{j=1}^{k} \lambda_j * y_{r,j,s} \geq y_{r,0}$$

$$Non-negativity\ Constraint: \tag{2.7}$$

$$\lambda_j, x_i^* \geq 0\ for\ j = 1, \dots, k\ and\ i = 1, \dots, m$$

### 2.3.3 Model Optimization and Results

The optimization model presented above is performed for each of the scenarios for each decision making unit. The output of each model will be a target cost, so the cost efficiency for each DMU for each scenario will need to be calculated according to Equation 2.8, where the current cost is calculated using the current input levels and their unit costs.

$$Cost\ Efficiency = \frac{Target\ Cost}{Current\ Cost} = \frac{\sum_{i=1}^{m} c_{i,0} * x_i^*}{\sum_{i=1}^{m} c_{i,0} * x_{i,0,s}} \quad (2.8)$$

Every DMU will have multiple relative cost efficiency values, one for each scenario, each with an associated probability of occurrence, denoted by $Z_{j,s}^*$ with probability $p_s^*$. An example output table of the results is shown in Table 2-1.

The optimization model result will also indicate the reference set of the DMU, according to the following conditions:

1. If $DMU_0$ has efficiency = 1, then its reference set is itself, and its associated dual variable will be greater than 0.
2. If $DMU_0$ has efficiency < 1, then its reference set is one or more of the efficient DMUs, and dual variables associated with those DMUs will be greater than 0.

Table **2-1**: Example output table of results

| | | DMU A | | DMU B | | ... | DMU k | |
|---|---|---|---|---|---|---|---|---|
| Scenario | Prob | Efficiency | Reference Set | Efficiency | Reference Set | | Efficiency | Reference Set |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| ... | | | | | | | | |
| S | | | | | | | | |

For each DMU, the efficiency value and probability for each scenario is recorded, along with its associated reference set and the lambda (dual) values of each of the reference units.

## 2.4 Revenue Allocation Model

The Revenue Allocation Model computes the relative revenue efficiency for each decision making unit for each of the scenarios. Similar to the Cost Allocation Model, it is formulated below.

### 2.4.1 Objective Function

The objective of the Revenue Allocation Model is to maximize the total revenue for $DMU_0$ for the scenario being evaluated. It will take into account the unit prices of each the outputs for each DMU. The model will find the optimal levels for each output as well as the dual variable values, and will be performed for each DMU for each scenario. The objective function for the Revenue Allocation Model for each scenario is shown in Equation 2.9.

$$Maximize\ Z_{0.s} = \sum_{r=1}^{n} g_{r,0} * y_r^* \tag{2.9}$$

### 2.4.2 Constraints

The objective function in Equation 2.9 is subject to certain constraints for each input and output variable, this time based on the optimal output levels and the current input levels. The constraints also depend on the scenario chosen, because it changes the input and output values. These constraints are shown below in Equations 2.10 and 2.11 for input and output, respectively, as well as the non-negativity constraints in Equation 2.12.

$$For\ every\ input\ variable\ i, \tag{2.10}$$

$$\sum_{j=1}^{k} \lambda_j * x_{i,j,s} \leq x_{i,0,s}$$

$$For\ every\ output\ variable\ r, \tag{2.11}$$

$$\sum_{j=1}^{k} \lambda_j * y_{r,j,s} \geq y_r^*$$

$$Non-negativity\ Constraint: \tag{2.12}$$

$$\lambda_j, y_r^* \geq 0\ for\ j = 1, \dots, k\ and\ r = 1, \dots, m$$

### 2.4.3 Model Optimization and Results

The optimization model presented above is performed for each of the scenarios for each decision making unit. The output of each model will be a target revenue, so the revenue efficiency for each DMU for each scenario will need to be calculated according to Equation 2.13, where the current revenue is calculated using the current output levels and their unit prices.

$$Revenue\ Efficiency = \frac{Current\ Revenue}{Target\ Revenue} = \frac{\sum_{r=1}^{n} g_{i,0} * y_{r,0,s}}{\sum_{r=1}^{n} g_{r,0} * y_r^*} \tag{2.13}$$

Every DMU will have multiple relative revenue efficiency values, one for each scenario, each with an associated probability of occurrence, denoted by $Z_{j,s}^*$ with probability $p_s^*$. A similar table to Table 2-1 above will be created to summarize the resulting outputs. Also similar to the

Cost Allocation Model is the indication of the reference set for each DMU, keeping in mind that the reference set for an efficient unit is itself.

For each DMU, the efficiency value and probability of each scenario are recorded, along with its reference set and associated lambda values.

## 2.5 Profit Allocation Model

The Profit Allocation Model is a combination of the Cost Allocation Model and the Revenue Allocation Model already presented, and computes the relative profit efficiency of each decision making unit (DMU), comparing it to the other DMUs. The formulation of this model is similar to that of the two previous models, optimizing each DMU for all of the possible scenarios.

### 2.5.1 Objective Function

The objective of the Profit Allocation Model is to maximize the total profit for $DMU_0$ for the scenario being evaluated. Combining the two previous models, it will take into account the unit cost of each of the inputs for each DMU as well as the unit price of each of the outputs for each DMU. The formulation will find the optimal profit levels, based on optimal levels for both the input and outputs values, as well as the dual variable values. The objective function that is used in each scenario is shown in Equation 2.14.

$$Maximize\ Z_{0.s} = \sum_{r=1}^{n} g_{r,0} * y_r^* - \sum_{i=1}^{m} c_{i,0} * x_i^* \tag{2.14}$$

### 2.5.2 Constraints

The constraints for the Profit Allocation Model combine the constraints from the two previous models. Therefore, for each input and each output there are two constraints, based on the optimal and current levels for inputs and outputs, depending on the scenario being evaluated. These constraints are shown below in Equations 2.15, 2.16, 2.17, and 2.18. The non-negativity constraint is also presented in Equation 2.19.

$$For\ every\ input\ variable\ i$$

$$\sum_{j=1}^{k} \lambda_j * x_{i,j,s} = x_i^* \tag{2.15}$$

$$\sum_{j=1}^{k} \lambda_j * x_{i,j,s} \leq x_{i,0,s} \tag{2.16}$$

$$For\ every\ output\ variable\ r,$$

$$\sum_{j=1}^{k} \lambda_j * y_{r,j,s} = y_r^* \tag{2.17}$$

$$\sum_{j=1}^{k} \lambda_j * y_{r,j,s} \geq y_{r,0} \tag{2.18}$$

$$Non-negativity\ Constraint: \tag{2.19}$$

$$\lambda_j, x_i^*, y_r^* \geq 0\ for\ j = 1, \dots, k;\ i = 1, \dots, m;\ and\ r = 1, \dots, m$$

### 2.5.3 Model Optimization and Results

The Profit Allocation optimization model presented above is performed for each of the possible scenarios for each decision making unit. The output of the model will return a target profit level, so the profit efficiency for each DMU for each scenario will need to be calculated according to Equation 2.20. The current profit level is calculated using the current input and output levels and their unit costs and prices, respectively.

$$Profit\ Efficiency = \frac{Current\ Profit}{Target\ Profit} = \frac{\sum_{r=1}^{n} g_{i,0} * y_{r,0,s} - \sum_{i=1}^{m} c_{i,0} * x_{i,0,s}}{\sum_{r=1}^{n} g_{r,0} * y_r^* - \sum_{i=1}^{m} c_{i,0} * x_i^*} \qquad (2.20)$$

Every DMU will have multiple relative profit efficiency values, one for each scenario, each with an associated probability of occurrence, denoted by $Z_{j,s}^*$ with probability $p_s^*$. A similar table to Table 2-1 above will be created to summarize the resulting outputs. Also similar to the Cost and Revenue Allocation Models is the indication of the reference set for each DMU, keeping in mind that the reference set for an efficient unit is itself.

For each DMU, the profit efficiency value and probability of each scenario is recorded, along with its reference set and associated lambda values.

### 2.5.4 Note on Negative Profit

The Profit Allocation Model presented above assumes that there is always positive profit, in both the current values and the target optimal values. If negative profit occurs, which is realistically very common, then the resulting efficiency values may be negative or greater than one. Therefore, a proposed method to handle negative profit is to utilize a profit ratio model. The objective function for this model is shown in Equation 2.21.

$$Maximize\ Z_{0.s} = \frac{\sum_{r=1}^{n} g_{r,0} * y_r^* - \sum_{i=1}^{m} c_{i,0} * x_i^*}{\sum_{i=1}^{m} c_{i,0} * x_i^*} \quad (2.21)$$

This model considers the ratio of total profit to total cost, and will ensure that the profit efficiency value will be between zero and one, and will not be negative.

## 2.6 Making Recommendations

Because of the probabilistic nature of the future performance and efficiencies, multiple methods are proposed when considering how to make recommendations for the inefficient units to become efficient. Ultimately, the method chosen will be based on the specific situation of the organization as well as the particular interest of the decision maker. All of these methods assume that the unit costs and prices of the inputs and outputs, respectively, for each decision making unit (DMU) cannot be changed, only the values of the inputs and outputs may be adjusted to increase efficiency.

### 2.6.1 Method 1

Once all of the efficiency values are recorded for each DMU for each scenario, along with their associated probability and reference set, the next step is to make recommendations to the decision maker on how to improve the efficiency of the inefficient units. This will be done through the following process:

1. For each DMU, indicate how often it is 100% efficient. This is done through noting the scenarios for which it is 100% efficient, and the probability of occurrence of

those scenarios. The percentage of time that the DMU is efficient will then be the sum of the probabilities of the scenarios for which it is efficient.

2. List the DMUs in order of decreasing percentage of time that it is efficient, according to the information obtained in step 1, with the DMU that is efficient most often listed first.
3. In order to create the efficiency frontier comprised of the efficient units, a benchmark performance must be set. This can be set by the decision maker or by historical information, if possible. Looking at the list created in step 2, a decision needs to be made on those that are efficient more often than others. For example, the decision maker may decide that the benchmark performance level is when a DMU is efficient greater than 50% of the time. Those above the benchmark level will be considered "efficient" units, while those below the benchmark will be considered "inefficient" units, and recommendations will be made for these "inefficient" units, as detailed in the following steps.
4. Next, record the scenarios in which the benchmark "efficient" DMUs are all 100% efficient.
5. The input and output values for the scenarios recorded in step 4 now need to be normalized based on the probability of that scenario's occurrence. From these normalized values, an expected value for each input and output for each DMU is obtained.
6. For each of the inefficient DMUs, they will need to do one of the following to become efficient:
    a. For the Cost Allocation Model: Decrease its input values for those with a higher unit cost, and increase its input values for those with a lower unit cost, to the optimal values obtained during the optimization process. Keep output

values the same. This will decrease the total cost of that DMU and will make it more cost efficient.

b. For the Revenue Allocation Model: Increase its output values to those optimal values obtained during the optimization process. Keep input values the same. This will increase the total revenue of that DMU and will make it more revenue efficient.

c. For the Profit Allocation Model: Perform a combination of parts (a) and (b). Decrease the input values of those with high unit costs, increase the input values for those with low unit costs, and increase the output values. This will increase the total profit for that DMU and will make it more profit efficient.

It is important to keep in mind that objective of the Cost, Revenue, and Profit models is to minimize cost, maximize revenue, and maximize profit, respectively. Because the unit costs and prices do not change, only the values of the inputs and outputs do, it is the combination of the values and their associated costs and prices that dictate the output of the model and whether or not the objective has been reached.

### 2.6.2 Method 2

The second proposed method takes into account the expected efficiency value of each DMU. This is done by taking a probabilistic expected value by multiplying the possible efficiency values obtained from the model output for each scenario by the probability of the associated scenario. When these values are summed, the expected efficiency value will be obtained. Similar to Step 2 from Method 1, the DMUs are then ranked based on their expected efficiency, with the highest efficiency listed first. To complete the recommendation process,

Steps 3 through 6 of Method 1 are followed, using the expected efficiency values of each DMU obtained from Method 2.

Note that the benchmark efficient DMUs in this method may be different than those of the first method. This is because the distribution of efficiency values is different for each DMU. For example, consider DMU A that is 100% efficient 50% of the time, and 30% efficient the rest of the time, versus DMU B that is 100% efficient 40% of the time, 90% efficient 50% of the time, and 30% efficient only 10% of the time. In this case, while DMU A is 100% more often that DMU B is, DMU B will have a higher expected efficiency (65% for DMU A versus 88% for DMU B).

### 2.6.3 Method 3

The third proposed method for making recommendations for inefficient units will look at which DMUs are efficient under the best case scenario and worst case scenario. The best case scenario is the one in which the inputs are the lowest and the outputs are the highest for each DMU. The worst case scenario is the opposite, where the input values are the highest possible and the output values are the lowest possible for each DMU. This is because the minimum amount of resources used to produce the maximum amount of output is wanted. Therefore, the two scenarios listed above are determined from the list of all scenarios, and their outputs for each DMU are recorded. To complete the recommendation process, there will be two sets of recommendations, one for each scenario. For each scenario, the method from Step 6 in Method 1 above is followed.

The meaning of the two sets of values obtained for each inefficient DMU is that the recommendations obtained from the best case scenario is the ultimate performance level that an inefficient DMU will want to achieve. The recommendation values obtained from the worst case

scenario represent the minimum performance level that the inefficient DMU will want to reach in order to become efficient.

### 2.6.4 Method 4

The fourth proposed method is similar to Method 3. This time, though, the best case scenario is considered for each DMU, given that the other DMUs follow their worst case scenario. This represents the scenario in which the lowest input values and highest output values for the DMU that is being optimized, and the highest input values and lowest output values for all other DMUs. Therefore, the total number of scenarios considered in this method will be equal to the number of DMUs.

For each scenario, the recommendations will be made for that DMU being analyzed if it is inefficient. This will be done by following Step 6 from Method 1. The recommendation values will then represent the minimum performance level that the DMU will need to achieve in order to be considered efficient, because the other DMUs are operating at their worst performance. Therefore, if a DMU is not efficient even under its best case while the other DMUs are performing at their worst, then that DMU is definitely not efficient.

## 2.7 Continuous Distribution Case

The model developed in the above sections is for when the set of possible input and output values for each DMU, as well as their associated probabilities, is discrete. When there is a case of a continuous distribution, the generation of scenarios will be different because there are no longer a finite number of scenarios. The methods for determining the cost, revenue, and profit efficiencies, however, will follow the same model as proposed above, as well as the methods for

making recommendations to the decision maker on how to increase the efficiency of inefficient units. This section will consider how to handle two different continuous distributions, the Normal Distribution and the Beta Distribution.

### 2.7.1 Normal Distribution

The Normal Distribution is defined as having the following probability density function, shown in Equation 2.22, where μ is the mean of the distribution and σ is the standard deviation.

$$f(x) = \frac{1}{\sigma\sqrt{2\pi}} e^{-\frac{(x-\mu)^2}{2\sigma^2}}, for -\infty < x < \infty \quad (2.22)$$

Because there are an infinite number of values and probabilities, as well as no absolute minimum or maximum value, the following steps are proposed to determine the possible values and their associated probabilities to be used in the models.

1. Determine the mean, μ, standard deviation, σ, and the values for μ ± 3σ.
2. Next, the probability density function (pdf) will be divided into sections of equal width, where the total number of sections and width are determined by the decision maker, keeping in mind that the more sections there are, the more complex the models become because there will be more scenarios generated. One proposed method is to use the standard deviation as the width of the sections.
3. The midpoint of each of these sections will be considered as the values for use in the models. It is therefore important that the mean as well as the ±3σ values are midpoints of their respective sections.

4. In order to obtain the probabilities of occurrence of these midpoint values, the pdf will be integrated for each section from its lower bound to its upper bound. The area under the curve obtained from this integration will be the probability associated with the midpoint value.
5. Now a set of values and their associated probabilities have been obtained, which will be used as the values for the scenarios and models. The sum of these probabilities will be approximately equal to one.

Once all of the possible values have been obtained along with their associated probabilities, the scenarios used in the models are generated in the same way they were for the discrete case, as detailed in Section 2.2. After the possible scenarios are generated, the Cost, Revenue, and Profit Allocation Models proposed in the above sections will also be utilized in the same way. Once the results of the models are obtained, the methods for making recommendations in the Normal Distribution case are the same as those for the discrete case.

### 2.7.2 Beta Distribution

The Beta Distribution is defined as the probability density function (pdf) shown in Equation 2.23:

$$f(x) = \frac{\left[\frac{x-a}{b-a}\right]^{\alpha-1}\left[1-\frac{x-a}{b-a}\right]^{\beta-1}}{(b-a)B(\alpha,\beta)}, for\ a \le x \le b \qquad (2.23)$$

In the equation above, α and β represent the shape parameters, and the function B(α, β) is the Beta Function, which is to ensure that when the total probability density function is

integrated, it is equal to one. The Beta Function used in the distribution is shown in Equation 2.24 below.

$$B(\alpha,\beta)=\int_0^1 t^{\alpha-1}(1-t)^{\beta-1}dt \tag{2.24}$$

Unlike the Normal Distribution, the Beta Distribution has finite minimum and maximum values, as represented by "a" and "b", respectively. The mean and variance for the Beta Distribution are defined as shown in Equations 2.25, and 2.26 respectively.

$$Mean=\frac{b\alpha+a\beta}{\alpha+\beta}, for\ \alpha,\beta>1 \tag{2.25}$$

$$Variance=\frac{(b-a)^2\alpha\beta}{(\alpha+\beta+1)(\alpha+\beta)^2}, for\ \ \alpha,\beta>1 \tag{2.26}$$

In order to generate the possible values that will be used in the models, and their associated probabilities, the steps will be similar to those presented in the Normal Distribution case, but with some modifications.

1. Determine the mean and variance of the distribution using Equations 2.25 and 2.26.
2. Using the maximum and minimum values, divide the probability density function into sections of equal width. The total number of sections is selected by the decision maker, and then the width of each section is determined by Equation 2.27 below. The mean will fall within one of the sections. One proposed method for the number of sections is using the standard deviation of the distribution. Note that the more sections there are the more complex the model will become.

$$Width = \frac{b - a}{\#\ of\ sections} \tag{2.27}$$

3. Similar to the Normal Distribution, the midpoints of these sections will represent the values, and the area under the curve, obtained from integrating the probability density function from the lower bound to the upper bound of the section, will be the associated probability. The areas can also be obtained from the common Beta Distribution Tables.
4. There is now a set of values and their associated probabilities, where the sum of all the probabilities will be equal to one.

From this set of values and probabilities, the scenarios that will be used in the models are generated according to the same steps described for the discrete case in Section 2.2. Once the scenarios are generated, the three allocation models will be run for each scenario, utilizing the same methods as proposed in the previous sections for the discrete case. The methods for making recommendations to the decision maker, in order for the inefficient units to become efficient, are also the same.

### 2.7.3 Other Continuous Distributions

This section proposes two types of possible continuous distributions, the Normal and Beta Distributions. Other continuous distributions may also be considered, following similar procedures as above, by looking at the possible maximum, minimum, mean, mode, and standard deviation values for the respective distribution. The probability density function is then divided

into appropriate sections of equal width, taking the midpoint as the possible value, and the area of the section as the probability of occurrence of that value. From there, the possible scenarios are generated according to the same method as for the discrete distribution. The Allocation Models presented will also be used similarly to optimize their respective efficiencies. The process for making recommendations to inefficient units also follows the same methods as in the discrete case.

## Chapter 3

# Numerical Example

### 3.1 Introduction

This chapter presents a numerical example of how to apply the models described in Chapter Two. In this example, the organization contains three decision making units (DMUs), each with two inputs and one output. The inputs and output each have two possible values with an associated probability of occurrence. The models are set up and the efficiency value for each DMU is computed for each possible scenario. After analyzing the efficiencies, recommendations are made to the decision maker on how to improve the efficiency of the inefficient DMUs.

### 3.2 Model Setup

The data for the possible input and output values and their associated probabilities that will be used in this example is in Table 3-1, where "Prob" stands for the probability of the value occurring.

Table **3-1**: Data for Numerical Example

| DMU | Input 1 | | | Input 2 | | | Output | | |
|---|---|---|---|---|---|---|---|---|---|
| | Value | Prob | Cost | Value | Prob | Cost | Value | Prob | Price |
| DMU A | 50 | 0.5 | 5 | 15 | 0.9 | 70 | 90 | 0.75 | 100 |
| | 75 | 0.5 | 5 | 25 | 0.1 | 70 | 100 | 0.25 | 100 |
| DMU B | 10 | 0.2 | 10 | 50 | 0.75 | 60 | 70 | 0.8 | 150 |
| | 20 | 0.8 | 10 | 60 | 0.25 | 60 | 80 | 0.2 | 150 |
| DMU C | 40 | 0.65 | 15 | 70 | 0.3 | 50 | 120 | 0.4 | 200 |
| | 60 | 0.35 | 15 | 80 | 0.7 | 50 | 150 | 0.6 | 200 |

The variables and notation specific to this example are:

1. Number of DMUs: $k = 3$
2. Number of inputs: $m = 2$
3. Number of outputs: $n = 1$
4. Number of possible values of input i for DMU j: $a_{i,j} = 2, i = 1,..,2; j = 1, \dots,3$
5. Number of possible values of output r for DMU j: $b_{r,j} = 2, r = 1; j = 1, \dots,3$

Equations 3.1 and 3.2 show the calculations of the number of scenarios per DMU and the total number of scenarios for this example, using Equations 3.1 and 3.2, respectively.

$$Total\ Scenarios\ per\ DMU \tag{3.1}$$
$$= a_{1,1} * a_{2,1} * a_{1,2} * a_{2,2} * a_{1,3} * a_{2,3} * b_{1,1} * b_{1,2} * b_{1,3}$$
$$= 2 * 2 * \dots * 2 = 2^9 = 512$$

$$S = Total\ Scenarios\ per\ DMU * 3 \tag{3.2}$$
$$= 512 * 3 = 1{,}536$$

Once each of the scenarios is obtained from the possible combinations of input and output values for each DMU, the probability of each scenario is also computed, shown in Equation 3.3. An example showing how to compute the probability for Scenario 1 is demonstrated in Equation 3.4.

$$Probability\ of\ a\ Scenario \tag{3.3}$$
$$= p_{1,1,s} * p_{1,2,s} * p_{1,3,s} * p_{2,1,s} * p_{2,2,s} * p_{2,3,s} * q_{1,1,s} * q_{1,2,s} * q_{1,3,s}$$

$$Probability\ of\ Scenario\ 1 \tag{3.4}$$

$$= 0.50 * 0.20 * 0.65 * 0.90 * 0.75 * 0.30 * 0.75 * 0.80 * 0.40 = 0.003159$$

Each of these 1,536 scenarios will be optimized for each of the Cost, Revenue, and Profit Allocation Models, totaling 4,608 models. Specific to this numerical example, the list of all 512 scenarios, their associated input and outputs values selected for each DMU, and the probability of occurrence of the scenarios are listed in Appendix A.

In order to evaluate all 1,536 scenarios, a developed Visual Basic program is used, which optimizes each of the Cost, Revenue, and Profit Allocation Models for each DMU for each of the scenarios using the Excel Solver function.

### 3.3 Cost Allocation Model

The formulation of the Cost Allocation Model for this numerical example is outlined below. There is the objective function, three constraints, and five decision variables. The objective function is shown in Equation 3.5 with an example for DMU A for Scenario 1 in Equation 3.6, where $DMU_0$ is DMU A.

$$Minimize\ Z_{0.s} = \sum_{i=1}^{2} c_{i,0} * x_i^* \tag{3.5}$$

$$Minimize\ Z_{0.1} = 5 * x_1^* + 70 * x_2^* \tag{3.6}$$

Equations 3.7 through 3.10 show the constraints equations relative to this numerical problem, including a constraint for each input and output, as well as the non-negativity constraint.

$$For\ input\ variable\ 1, \tag{3.7}$$

$$\sum_{j=1}^{3} \lambda_j * x_{1,j,1} \leq x_1^*$$

$$For\ input\ variable\ 2, \tag{3.8}$$

$$\sum_{j=1}^{3} \lambda_j * x_{2,j,1} \leq x_2^*$$

$$For\ output\ variable, \tag{3.9}$$

$$\sum_{j=1}^{3} \lambda_j * y_{1,j,s} \geq y_{1,0}$$

$$Non-negativity\ Constraint: \tag{3.10}$$

$$\lambda_j, x_i^* \geq 0\ for\ j = 1,2,3\ and\ i = 1,2$$

Equations 3.11 through 3.14 continue the example of DMU A for Scenario 1, demonstrating its specific constraints, with the coefficients obtained from Table 3-1.

$$For\ input\ variable\ 1, \tag{3.11}$$

$$50 * \lambda_1 + 10 * \lambda_2 + 40 * \lambda_3 \leq x_1^*$$

$$For\ input\ variable\ 2, \tag{3.12}$$

$$15 * \lambda_1 + 50 * \lambda_2 + 70 * \lambda_3 \leq x_2^*$$

$$For\ output\ variable, \tag{3.13}$$

$$90 * \lambda_1 + 70 * \lambda_2 + 120 * \lambda_3 \geq 90$$

$$Non - negativity\ Constraint: \tag{3.14}$$

$$\lambda_1, \lambda_2, \lambda_3, x_1^*, x_2^* \geq 0$$

The model is completely set up in Excel in order to implement the Excel Solver function. Once the Cost Allocation Model is optimized, the resulting output is the optimal target cost. Therefore, Equation 3.15 shows how to calculate the cost efficiency based on the current cost and the optimal target cost. Equation 3.16 shows an example specifically for DMU A for Scenario 1.

$$Cost\ Efficiency = \frac{Target\ Cost}{Current\ Cost} = \frac{c_{1,0} * x_1^* + c_{2,0} * x_2^*}{c_{1,0} * x_{1,0,1} + c_{2,0} * x_{2,0,1}} \tag{3.15}$$

$$Cost\ Efficiency = \frac{Target\ Cost}{Current\ Cost} = \frac{5 * 50 + 70 * 15}{5 * 50 + 70 * 15} = 1 \tag{3.16}$$

Therefore, for Scenario 1, DMU A is 100% cost efficient. Each of the 1,536 scenarios is optimized, and the complete resulting output tables for each DMU are shown in Appendix B.

### 3.4 Revenue Allocation Model

The formulation of the Revenue Allocation Model for this numerical example is outlined below. There is the objective function, three constraints, and four decision variables. The objective function is shown in Equation 3.17 with an example for DMU A for Scenario 1 in Equation 3.18, where $DMU_0$ is DMU A.

$$Maximize\ Z_{0.s} = \sum_{r=1}^{1} g_{r,0} * y_r^* \tag{3.17}$$

$$Maximize\ Z_{0.1} = 100 * y_1^* \tag{3.18}$$

Equations 3.19 through 3.22 show the constraints equations relative to this numerical problem for the revenue model, including a constraint for each input and output, as well as the non-negativity constraint.

$$For\ input\ variable\ 1, \tag{3.19}$$

$$\sum_{j=1}^{3} \lambda_j * x_{1,j,1} \leq x_{1,0,1}$$

$$For\ input\ variable\ 2, \tag{3.20}$$

$$\sum_{j=1}^{3} \lambda_j * x_{2,j,1} \leq x_{2,0,1}$$

$$For\ output\ variable, \tag{3.21}$$

$$\sum_{j=1}^{3} \lambda_j * y_{1,j,s} \geq y_1^*$$

$$Non-negativity\ Constraint: \tag{3.22}$$

$$\lambda_j, y_1^* \geq 0\ for\ j = 1, 2, 3$$

Equations 3.23 through 3.26 continue the example of DMU A for Scenario 1, demonstrating its specific constraints for the revenue model, obtaining the coefficients from Table 3-1.

$$For\ input\ variable\ 1, \tag{3.23}$$

$$50 * \lambda_1 + 10 * \lambda_2 + 40 * \lambda_3 \leq 50$$

$$For\ input\ variable\ 2, \tag{3.24}$$

$$15 * \lambda_1 + 50 * \lambda_2 + 70 * \lambda_3 \leq 15$$

$$For\ output\ variable, \tag{3.25}$$

$$90 * \lambda_1 + 70 * \lambda_2 + 120 * \lambda_3 \geq y_1^*$$

$$Non-negativity\ Constraint: \tag{3.26}$$

$$\lambda_1, \lambda_2, \lambda_3, y_1^* \geq 0$$

The model is completely set up in Excel in order to implement the Excel Solver function. Once the Revenue Allocation Model is optimized, the resulting output is the optimal target revenue. Therefore, Equation 3.27 shows how to calculate the revenue efficiency based on the current revenue and the optimal target revenue. Equation 3.28 shows an example specifically for DMU A for Scenario 1.

$$Revenue\ Efficiency = \frac{Current\ Revenue}{Target\ Revenue} = \frac{g_{1,0} * y_{1,0,1}}{g_{1,0} * y_1^*} \tag{3.27}$$

$$Revenue\ Efficiency = \frac{Current\ Revenue}{Target\ Revenue} = \frac{100 * 90}{100 * 90} = 1 \tag{3.28}$$

Therefore, for Scenario 1, DMU A is 100% revenue efficient. Each of the 512 scenarios is optimized for each DMU, and the complete resulting output tables are shown in Appendix C.

## 3.5 Profit Allocation Model

The formulation of the Profit Allocation Model for this numerical example is outlined below. There is the objective function, six constraints, and six decision variables. The objective function is shown in Equation 3.29 with an example for DMU A for Scenario 1 in Equation 3.30, where $DMU_0$ is DMU A.

$$Maximize\ Z_{0.s} = \sum_{r=1}^{1} g_{r,0} * y_r^* - \sum_{i=1}^{2} c_{i,0} * x_i^* \tag{3.29}$$

$$Maximize\ Z_{0.1} = 100 * y_1^* - 5 * x_1^* - 70 * x_2^* \tag{3.30}$$

Equations 3.31 through 3.37 show the constraints equations relative to this numerical problem for the profit model, including two constraints for each input and output, as well as the non-negativity constraint.

$$For\ input\ variable\ 1$$

$$\sum_{j=1}^{3} \lambda_j * x_{1,j,s} = x_1^* \tag{3.31}$$

$$\sum_{j=1}^{3} \lambda_j * x_{1,j,s} \leq x_{1,0,s} \tag{3.32}$$

$$For\ input\ variable\ 2$$

$$\sum_{j=1}^{3} \lambda_j * x_{2,j,s} = x_2^* \tag{3.33}$$

$$\sum_{j=1}^{3} \lambda_j * x_{2,j,s} \leq x_{2,0,s} \tag{3.34}$$

$$For\ the\ output\ variable$$

$$\sum_{j=1}^{3} \lambda_j * y_{1,j,s} = y_1^* \tag{3.35}$$

$$\sum_{j=1}^{3} \lambda_j * y_{1,j,s} \geq y_{1,0} \tag{3.36}$$

$$Non-negativity\ Constraint: \tag{3.37}$$

$$\lambda_j, x_i^*, y_1^* \geq 0\ for\ j = 1, \dots, 3;\ i = 1, \dots, 2$$

Equations 3.38 through 3.44 continue the example of DMU A for Scenario 1, demonstrating its specific constraints for the profit model, obtaining the coefficients from Table 3-1.

$$For\ input\ variable\ 1,$$

$$50 * \lambda_1 + 10 * \lambda_2 + 40 * \lambda_3 = x_1^* \tag{3.38}$$

$$50 * \lambda_1 + 10 * \lambda_2 + 40 * \lambda_3 \leq 50 \tag{3.39}$$

$$For\ input\ variable\ 2,$$

$$15 * \lambda_1 + 50 * \lambda_2 + 70 * \lambda_3 = x_2^* \tag{3.40}$$

$$15 * \lambda_1 + 50 * \lambda_2 + 70 * \lambda_3 \leq 15 \tag{3.41}$$

$$For\ the\ output\ variable,$$

$$90 * \lambda_1 + 70 * \lambda_2 + 120 * \lambda_3 = y_1^* \tag{3.42}$$

$$90 * \lambda_1 + 70 * \lambda_2 + 120 * \lambda_3 \geq 90 \tag{3.43}$$

$$Non-negativity\ Constraint: \tag{3.44}$$

$$\lambda_1, \lambda_2, \lambda_3, y_1^*, x_1^*, x_2^* \geq 0$$

The model is completely set up in Excel in order to implement the Excel Solver function. Once the Profit Allocation Model is optimized, the resulting output is the optimal target profit for

that DMU. Therefore, Equation 3.45 shows how to calculate the profit efficiency based on the current profit and the optimal target profit. Equation 3.46 shows an example specifically for DMU A for Scenario 1.

$$Profit\ Efficiency = \frac{Current\ Profit}{Target\ Profit} = \frac{g_{1,0} * y_{1,0,1} - c_{1,0} * x_{1,0,1} - c_{2,0} * x_{2,0,1}}{g_{1,0} * y_1^* - c_{1,0} * x_1^* - c_{2,0} * x_2^*} \tag{3.45}$$

$$Profit\ Efficiency = \frac{Current\ Profit}{Target\ Profit} = \frac{100 * 90 - 5 * 50 - 70 * 15}{100 * 90 - 5 * 50 - 70 * 15} = 1 \tag{3.46}$$

Therefore, for Scenario 1, DMU A is 100% profit efficient. Each of the 512 scenarios is optimized for each DMU, and the complete resulting output tables are shown in Appendix D.

## 3.6 Results

Now that all 512 scenarios have been optimized for each DMU for each of the Cost, Revenue, and Profit Allocation Models, the results are summarized based on different ways for computing their efficiencies. This is important in order to be able to make recommendations for those units which are deemed "inefficient". The inefficiency benchmark, however, is based on the decision maker.

The first method looks at the total amount of time that a DMU is efficient out of the 512 scenarios. The percentage is calculated by looking at the scenarios for which the DMU is efficient, and summing up the respective probabilities of those scenarios. These percentages are computed for each DMU for each of the three allocation models, and are summarized below in Table 3-2.

Table **3-2**: Percentage of Time DMU is Efficient

| DMU | Cost Eff | Revenue Eff | Profit Eff |
|---|---|---|---|
| **DMU A** | 100% | 100% | 100% |
| **DMU B** | 0% | 75% | 75% |
| **DMU C** | 0% | 62% | 62% |

From Table 3-2, it is seen that DMU A is efficient 100% of the time for each of the three allocation models. DMU A is also the only DMU that is ever efficient under the Cost Allocation Model. For the Revenue and Profit Allocation Models, DMUs B and C are occasionally efficient, at 75% and 62% of the time respectively. The scenarios for which they are efficient can be seen in Appendices A, B, and C for the Cost, Revenue, and Profit models respectively.

Another method for computing the efficiency values is to look at the expected efficiency of each of the DMUs. This is done by taking the expected value of the efficiency with respect to the probability of the scenarios. These results are computed for each DMU for each of the three models, and are summarized in Table 3-3.

Table **3-3**: Expected Efficiency Value

| DMU | Cost Eff | Revenue Eff | Profit Eff |
|---|---|---|---|
| **DMU A** | 100% | 100% | 100% |
| **DMU B** | 37% | 98% | 95% |
| **DMU C** | 57% | 95% | 95% |

From this table, it is concluded that DMU A is expected to be 100% efficiency for each of the models. For DMUs B and C, their expected efficiencies for the Cost Model are very low, while they are higher for the Revenue and Profit Models.

The next method of calculating the efficiency values is to look at how the DMUs perform under the worst case scenario. This scenario considers the worst values of each DMU with respect to the highest input values and the lowest output values. This way, it can be seen how the

DMUs each perform under the worst case scenario. For this example, the worst case scenario is scenario number 505, for which details can be seen in Appendix A. The efficiency scores for each of the DMUs for each of the three Allocation Models are recorded for scenario 505, and are summarized in Table 3-4.

Table **3-4**: Worst Case Scenario: S505

| DMU | Cost Eff | Revenue Eff | Profit Eff |
|---|---|---|---|
| **DMU A** | 100% | 100% | 100% |
| **DMU B** | 46% | 100% | 100% |
| **DMU C** | 65% | 97% | 96% |

From optimizing the worst case scenario, it is seen that DMU A is again 100% efficient for each of the models. DMU B is also 100% efficient for the Revenue and Profit Models. DMU C is not efficient for this scenario for any of the models, although it has a higher efficiency value for the Revenue and Profit Models than the Cost Model.

On the flip side, another method to look at is the best case scenario, to see how the DMUs perform relative to one another when they are all performing at their best. This is represented by their lowest input values and highest output values. The best case scenario in this example is scenario number 8. The efficiency values for each DMU for each of the models is recorded, and shown in Table 3-5.

Table **3-5**: Best Case Scenario: S8

| DMU | Cost Eff | Revenue Eff | Profit Eff |
|---|---|---|---|
| **DMU A** | 100% | 100% | 100% |
| **DMU B** | 36% | 100% | 100% |
| **DMU C** | 55% | 97% | 97% |

It is seen, again, that DMU A is 100% efficient for each of the three models. DMU B is also 100% efficient for the Revenue and Profit Models. DMU C is not efficient for any of the models. This means that even under the best scenario, DMU C is still not performing efficiently, although its efficiency values for the Revenue and Profit Models are much higher than for the Cost Model.

The last method considered for computing the efficiency values is to look at the scenarios in which one DMU is at its best performance while all of the other DMUs are at their worst performance. The scenario in this example in which DMU A is performing at its best, while DMUs B and C are performing at their worst is scenario number 221. Similarly for DMUs B and C, the scenarios represented are numbers 363 and 434, respectively. The efficiency values for each of these scenarios for each of the three allocation models is recorded and summarized in Table 3-6.

Table **3-6**: Best Case for Each DMU

| DMU | Scenario | Cost Eff | Revenue Eff | Profit Eff |
|---|---|---|---|---|
| **DMU A** | S221 | 100% | 100% | 100% |
| **DMU B** | S363 | 65% | 100% | 100% |
| **DMU C** | S434 | 97% | 100% | 100% |

Under this method, all three DMUs are 100% efficient for both the Revenue and Profit Models. However, for the Cost Model, only DMU A is 100% efficient. DMUs B and C are 65% and 97% efficient, respectively. This shows especially poor performance for DMU B in the cost model because even when it is performing at its best, and the other DMUs are performing at their worst, DMU B is only able to be 65% efficient. Therefore, it will definitely need to improve its performance in order to become cost efficient. Recommendations for how to do so are discussed in Section 3.7 below.

## 3.7 Recommendations

For this numerical example, it is assumed that the decision maker would like to use Method 3 for the process of making recommendations for the inefficient units to become efficient under each of the three Allocation Models. In this method, the best case scenario (Scenario 8), and the worst case scenario (Scenario 505), will be examined to determine the efficient frontier. The best case scenario represents the ultimate cost, revenue, and profit levels that the DMUs would like to reach in order to become efficient. The worst case scenario represents the minimum level required in order for the DMUs to be efficient. Recommendations will be made for the inefficient units for each scenario for each model.

### 3.7.1 Best Case Scenario

From the results for Scenario 8, as seen in Table 3-5, it can be determined that for the Cost Model, the efficient frontier is DMU A, and for the Revenue and Profit Models, the efficient frontier is DMUs A and B. Therefore, recommendations will be made for DMUs B and C for the Cost Model, and DMU C for the Revenue and Profit Models, as detailed below.

DMU B is currently 36% efficient for the Cost Allocation Model. In order for DMU B to become efficient, it must decrease its total cost from $3,100 to $1,120 by increasing Input 1 from 10 to 40 units, and decreasing Input 2 from 50 to 20 units.

DMU C is currently 55% efficient for the Cost Allocation Model. In order for DMU C to become efficient, it must decrease its total cost from $4,100 to $2,250 by increasing Input 1from 40 to 75 units, and decreasing Input 2 from 70 to 22.5 units.

DMU C is currently 97% efficient for the Revenue Allocation Model. However, recommendations will still be made because DMUs A and B are 100% efficient. Therefore, in

order for DMU C to become efficient, it must increase its total revenue from $30,000 to $30,808.51 by increasing its Output from 150 to 154.043 units.

DMU C is also currently 97% efficient for the Profit Allocation Model, however recommendations will still be made for this case as well. For DMU C to become efficient, it must increase its total profit from $25,900 to $26,709 by increasing Input 1 from 40 to 50 units, keeping Input 2 at 70 units, and increasing Output from 150 to 154.043 units.

If these recommendations are all followed, then DMUs A, B, and C will all be Cost, Revenue, and Profit Efficient for the best case scenario.

### 3.7.2 Worst Case Scenario

The results for the worst case scenario, Scenario 505, are outlined in Table 3-4. Similarly to the best case scenario, the efficient frontier for the Cost Model is DMU A, while the efficient frontier for the Revenue and Profit Models is DMUs A and B. Therefore, recommendations will be made for DMUs B and C to become efficient under the Cost Model, and for DMU C to become efficient under the Revenue and Profit Models.

DMU B is currently 46% cost-efficient. In order to become 100% efficient, DMU B must decrease its total cost from $3,870 to $1,750 by increasing Input 1 from 20 to 58.333 units and decreasing Input 2 from 60 to 19.444 units.

DMU C is currently 65% cost-efficient. In order to become 100% efficient, DMU C must decrease its total cost from $4,900 to $3166.67 by increasing Input 1 from 60 to 100 units and decreasing Input 2 from 80 to 33.33 units.

DMU C is also currently 97% revenue-efficient. However, recommendations will still be made for DMU C to become efficient, because DMUs A and B are both currently 100% efficient.

Therefore, DMU C should increase its total revenue from $24,000 to $24,750 by increasing its Output from 120 to 123.75 units.

DMU C is currently 96% profit-efficient. In order to become efficient, DMU C should increase its total profit from $19,100 to $19,850 by keeping Input 1 at 60 units, keeping Input 2 at 80 units, and increasing its Output from 120 to 123.75 units.

If these recommendations are all followed, then DMUs A, B, and C will all be 100% Cost, Revenue, and Profit-efficient under the worst case scenario.

# Chapter 4

# Summary, Conclusions, and Future Research

## 4.1 Summary and Conclusions

Managing and evaluating the efficiency of an organization is an important goal for its managers. Data Envelopment Analysis (DEA) is a useful technique for evaluating the efficient utilization of resources of a decision making unit (DMU) relative to the other DMUs within the organization. Advantages of DEA include being able to handle multiple inputs and outputs as well as inputs and outputs with different units and magnitudes. The DEA Allocation Models also look at multiple inputs and outputs, but where the units are all in dollars, to specifically evaluate a DMU's cost, revenue, and profit efficiencies. Traditionally, however, DEA is only evaluating past performance, where deterministic results are available. Future performance is also important to understand and evaluate, especially when a manager needs to allocate their resources appropriately to the units of their organization. However, future results are unknown at the present.

Three Allocative Data Envelopment Analysis Models were developed to incorporate the uncertainty of future performance. Focusing on discrete probability distributions, the values that each input and output could possibly be in the future are determined as well as their associated probability of occurrence. These values and probabilities will be obtained from either historical performance levels or from the expert knowledge of the managers and decision makers. For each DMU, the unit costs of each input and the unit prices of each output are also determined.

From these sets of values, all possible scenarios are generated from the combinations of possible input and output values for each DMU. The associated probability of occurrence for

each of these scenarios is also computed, based on the probabilities of each of the input and output values selected for use in that scenario. The three Allocative DEA Models developed are the Cost Model, Revenue Model, and Profit Model. Each DMU is evaluated for each of the possible scenarios for each of these three models, obtaining a possible efficiency value for each one.

The objective of the Cost Allocation Model is to minimize total cost of the DMU being analyzed, resulting in an optimal target cost. The cost efficiency value must then be obtained by dividing the optimal target cost received from the model output by the current cost, which is computed from the unit costs of the inputs and the input values. Similarly, the objective of the Revenue Allocation Model is to maximize total revenue for the DMU being analyzed, resulting in an optimal target revenue value. The revenue efficiency is then computed by dividing the current revenue by the optimal target revenue obtained from the model. The objective of the Profit Allocation Model is to maximize total profit for the DMU being analyzed. This model results in an optimal target profit, from which the profit efficiency is calculated by dividing the current profit by the optimal target profit. These efficiency values will be between zero and one, where a DMU is considered efficient if its efficiency value is equal to one and inefficient otherwise.

Once the efficiency values are obtained for each DMU for each scenario for each of the three models, four methods are proposed in order to make recommendations in order for the inefficient units to become efficient. The first method considers the percentage of time that each DMU is efficient, calculated by summing the probabilities of the scenarios for which the DMU is efficient. The second method takes into account the expected efficiency value of each DMU. The third evaluates the efficiency values of each DMU under the best case and worst case scenarios, while the fourth method evaluates the efficiency value for the scenario that is best for one DMU and worst for all of the others. Recommendations for the cost inefficient DMUs are to increase the inputs with the lower unit costs and decrease the inputs with the higher unit costs.

For the revenue inefficient DMUs, recommendations are to increase the output values. The recommendations for the profit inefficient DMUs are a combination of the recommendations for the cost and revenue models.

It is therefore important to be able to understand the possibilities of future results. Especially for managers of health care systems, they are able to better allocate their resources and budget amongst the units of their organization based on the prediction of future performance and the recommendations for inefficient units to become efficient.

## 4.2 Areas of Future Research

There are many areas in which future research can be applied to Allocative Data Envelopment Analysis with uncertainty. While one method for handling continuous distributions is proposed with respect to the Normal and Beta Distributions, further methods may be developed to better apply continuous distributions to the input and output values, especially to obtain their associated probabilities. Because each distribution has different properties, there may or may not be one method in which to handle all continuous distributions.

The models presented in this thesis assume that profit is non-negative, proposing a profit ratio method in consideration of negative values. Therefore, developing a model that is better able to optimize profit efficiency with negative values will be very valuable, especially because negative profit and debt are present in many applications.

This thesis also proposes four methods in which to make recommendations for the inefficient DMUs to become efficient. Because the method chosen is based on the preference of the decision maker, as well as their unique situation, further research may be done on other methods to better fit multiple types of applications and situations.

Future research could apply these models to data from a broader cross section of health care organizations. This would help to understand the nuances of different organizations along with enhancing the capabilities of the models to handle the nuances. All three of the Allocative DEA Models may also be applied to other industries in addition to the health care industry. The properties and advantages of the models presented in this thesis could assist other industries to better analyze their cost, revenue, and profit efficiencies to strengthen future performances.

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## Appendix A

# Table of Scenarios with Probabilities for Numerical Example

Table **A-1:** Table of Scenarios

| Scenario | Input 1A | Input 1B | Input 1C | Input 2A | Input 2B | Input 2C | Output A | Output B | Output C | Prob |
|---|---|---|---|---|---|---|---|---|---|---|
| **S1** | 50 | 10 | 40 | 15 | 50 | 70 | 90 | 70 | 120 | 0.00316 |
| **S2** | 50 | 10 | 40 | 15 | 50 | 70 | 90 | 70 | 150 | 0.00474 |
| **S3** | 50 | 10 | 40 | 15 | 50 | 70 | 90 | 80 | 120 | 0.00079 |
| **S4** | 50 | 10 | 40 | 15 | 50 | 70 | 90 | 80 | 150 | 0.00118 |
| **S5** | 50 | 10 | 40 | 15 | 50 | 70 | 100 | 70 | 120 | 0.00105 |
| **S6** | 50 | 10 | 40 | 15 | 50 | 70 | 100 | 70 | 150 | 0.00158 |
| **S7** | 50 | 10 | 40 | 15 | 50 | 70 | 100 | 80 | 120 | 0.00026 |
| **S8** | 50 | 10 | 40 | 15 | 50 | 70 | 100 | 80 | 150 | 0.00039 |
| **S9** | 50 | 10 | 40 | 15 | 50 | 80 | 90 | 70 | 120 | 0.00737 |
| **S10** | 50 | 10 | 40 | 15 | 50 | 80 | 90 | 70 | 150 | 0.01106 |
| **S11** | 50 | 10 | 40 | 15 | 50 | 80 | 90 | 80 | 120 | 0.00184 |
| **S12** | 50 | 10 | 40 | 15 | 50 | 80 | 90 | 80 | 150 | 0.00276 |
| **S13** | 50 | 10 | 40 | 15 | 50 | 80 | 100 | 70 | 120 | 0.00246 |
| **S14** | 50 | 10 | 40 | 15 | 50 | 80 | 100 | 70 | 150 | 0.00369 |
| **S15** | 50 | 10 | 40 | 15 | 50 | 80 | 100 | 80 | 120 | 0.00061 |
| **S16** | 50 | 10 | 40 | 15 | 50 | 80 | 100 | 80 | 150 | 0.00092 |
| **S17** | 50 | 10 | 40 | 15 | 60 | 70 | 90 | 70 | 120 | 0.00105 |
| **S18** | 50 | 10 | 40 | 15 | 60 | 70 | 90 | 70 | 150 | 0.00158 |
| **S19** | 50 | 10 | 40 | 15 | 60 | 70 | 90 | 80 | 120 | 0.00026 |
| **S20** | 50 | 10 | 40 | 15 | 60 | 70 | 90 | 80 | 150 | 0.00039 |
| **S21** | 50 | 10 | 40 | 15 | 60 | 70 | 100 | 70 | 120 | 0.00035 |
| **S22** | 50 | 10 | 40 | 15 | 60 | 70 | 100 | 70 | 150 | 0.00053 |
| **S23** | 50 | 10 | 40 | 15 | 60 | 70 | 100 | 80 | 120 | 0.00009 |
| **S24** | 50 | 10 | 40 | 15 | 60 | 70 | 100 | 80 | 150 | 0.00013 |
| **S25** | 50 | 10 | 40 | 15 | 60 | 80 | 90 | 70 | 120 | 0.00246 |
| **S26** | 50 | 10 | 40 | 15 | 60 | 80 | 90 | 70 | 150 | 0.00369 |
| **S27** | 50 | 10 | 40 | 15 | 60 | 80 | 90 | 80 | 120 | 0.00061 |
| **S28** | 50 | 10 | 40 | 15 | 60 | 80 | 90 | 80 | 150 | 0.00092 |
| **S29** | 50 | 10 | 40 | 15 | 60 | 80 | 100 | 70 | 120 | 0.00082 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **S30** | 50 | 10 | 40 | 15 | 60 | 80 | 100 | 70 | 150 | 0.00123 |
| **S31** | 50 | 10 | 40 | 15 | 60 | 80 | 100 | 80 | 120 | 0.00020 |
| **S32** | 50 | 10 | 40 | 15 | 60 | 80 | 100 | 80 | 150 | 0.00031 |
| **S33** | 50 | 10 | 40 | 25 | 50 | 70 | 90 | 70 | 120 | 0.00035 |
| **S34** | 50 | 10 | 40 | 25 | 50 | 70 | 90 | 70 | 150 | 0.00053 |
| **S35** | 50 | 10 | 40 | 25 | 50 | 70 | 90 | 80 | 120 | 0.00009 |
| **S36** | 50 | 10 | 40 | 25 | 50 | 70 | 90 | 80 | 150 | 0.00013 |
| **S37** | 50 | 10 | 40 | 25 | 50 | 70 | 100 | 70 | 120 | 0.00012 |
| **S38** | 50 | 10 | 40 | 25 | 50 | 70 | 100 | 70 | 150 | 0.00018 |
| **S39** | 50 | 10 | 40 | 25 | 50 | 70 | 100 | 80 | 120 | 0.00003 |
| **S40** | 50 | 10 | 40 | 25 | 50 | 70 | 100 | 80 | 150 | 0.00004 |
| **S41** | 50 | 10 | 40 | 25 | 50 | 80 | 90 | 70 | 120 | 0.00082 |
| **S42** | 50 | 10 | 40 | 25 | 50 | 80 | 90 | 70 | 150 | 0.00123 |
| **S43** | 50 | 10 | 40 | 25 | 50 | 80 | 90 | 80 | 120 | 0.00020 |
| **S44** | 50 | 10 | 40 | 25 | 50 | 80 | 90 | 80 | 150 | 0.00031 |
| **S45** | 50 | 10 | 40 | 25 | 50 | 80 | 100 | 70 | 120 | 0.00027 |
| **S46** | 50 | 10 | 40 | 25 | 50 | 80 | 100 | 70 | 150 | 0.00041 |
| **S47** | 50 | 10 | 40 | 25 | 50 | 80 | 100 | 80 | 120 | 0.00007 |
| **S48** | 50 | 10 | 40 | 25 | 50 | 80 | 100 | 80 | 150 | 0.00010 |
| **S49** | 50 | 10 | 40 | 25 | 60 | 70 | 90 | 70 | 120 | 0.00012 |
| **S50** | 50 | 10 | 40 | 25 | 60 | 70 | 90 | 70 | 150 | 0.00018 |
| **S51** | 50 | 10 | 40 | 25 | 60 | 70 | 90 | 80 | 120 | 0.00003 |
| **S52** | 50 | 10 | 40 | 25 | 60 | 70 | 90 | 80 | 150 | 0.00004 |
| **S53** | 50 | 10 | 40 | 25 | 60 | 70 | 100 | 70 | 120 | 0.00004 |
| **S54** | 50 | 10 | 40 | 25 | 60 | 70 | 100 | 70 | 150 | 0.00006 |
| **S55** | 50 | 10 | 40 | 25 | 60 | 70 | 100 | 80 | 120 | 0.00001 |
| **S56** | 50 | 10 | 40 | 25 | 60 | 70 | 100 | 80 | 150 | 0.00001 |
| **S57** | 50 | 10 | 40 | 25 | 60 | 80 | 90 | 70 | 120 | 0.00027 |
| **S58** | 50 | 10 | 40 | 25 | 60 | 80 | 90 | 70 | 150 | 0.00041 |
| **S59** | 50 | 10 | 40 | 25 | 60 | 80 | 90 | 80 | 120 | 0.00007 |
| **S60** | 50 | 10 | 40 | 25 | 60 | 80 | 90 | 80 | 150 | 0.00010 |
| **S61** | 50 | 10 | 40 | 25 | 60 | 80 | 100 | 70 | 120 | 0.00009 |
| **S62** | 50 | 10 | 40 | 25 | 60 | 80 | 100 | 70 | 150 | 0.00014 |
| **S63** | 50 | 10 | 40 | 25 | 60 | 80 | 100 | 80 | 120 | 0.00002 |
| **S64** | 50 | 10 | 40 | 25 | 60 | 80 | 100 | 80 | 150 | 0.00003 |
| **S65** | 50 | 10 | 60 | 15 | 50 | 70 | 90 | 70 | 120 | 0.00170 |
| **S66** | 50 | 10 | 60 | 15 | 50 | 70 | 90 | 70 | 150 | 0.00255 |
| **S67** | 50 | 10 | 60 | 15 | 50 | 70 | 90 | 80 | 120 | 0.00043 |
| **S68** | 50 | 10 | 60 | 15 | 50 | 70 | 90 | 80 | 150 | 0.00064 |
| **S69** | 50 | 10 | 60 | 15 | 50 | 70 | 100 | 70 | 120 | 0.00057 |

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|---|---|---|---|---|---|---|---|---|---|---|
| **S70** | 50 | 10 | 60 | 15 | 50 | 70 | 100 | 70 | 150 | 0.00085 |
| **S71** | 50 | 10 | 60 | 15 | 50 | 70 | 100 | 80 | 120 | 0.00014 |
| **S72** | 50 | 10 | 60 | 15 | 50 | 70 | 100 | 80 | 150 | 0.00021 |
| **S73** | 50 | 10 | 60 | 15 | 50 | 80 | 90 | 70 | 120 | 0.00397 |
| **S74** | 50 | 10 | 60 | 15 | 50 | 80 | 90 | 70 | 150 | 0.00595 |
| **S75** | 50 | 10 | 60 | 15 | 50 | 80 | 90 | 80 | 120 | 0.00099 |
| **S76** | 50 | 10 | 60 | 15 | 50 | 80 | 90 | 80 | 150 | 0.00149 |
| **S77** | 50 | 10 | 60 | 15 | 50 | 80 | 100 | 70 | 120 | 0.00132 |
| **S78** | 50 | 10 | 60 | 15 | 50 | 80 | 100 | 70 | 150 | 0.00198 |
| **S79** | 50 | 10 | 60 | 15 | 50 | 80 | 100 | 80 | 120 | 0.00033 |
| **S80** | 50 | 10 | 60 | 15 | 50 | 80 | 100 | 80 | 150 | 0.00050 |
| **S81** | 50 | 10 | 60 | 15 | 60 | 70 | 90 | 70 | 120 | 0.00057 |
| **S82** | 50 | 10 | 60 | 15 | 60 | 70 | 90 | 70 | 150 | 0.00085 |
| **S83** | 50 | 10 | 60 | 15 | 60 | 70 | 90 | 80 | 120 | 0.00014 |
| **S84** | 50 | 10 | 60 | 15 | 60 | 70 | 90 | 80 | 150 | 0.00021 |
| **S85** | 50 | 10 | 60 | 15 | 60 | 70 | 100 | 70 | 120 | 0.00019 |
| **S86** | 50 | 10 | 60 | 15 | 60 | 70 | 100 | 70 | 150 | 0.00028 |
| **S87** | 50 | 10 | 60 | 15 | 60 | 70 | 100 | 80 | 120 | 0.00005 |
| **S88** | 50 | 10 | 60 | 15 | 60 | 70 | 100 | 80 | 150 | 0.00007 |
| **S89** | 50 | 10 | 60 | 15 | 60 | 80 | 90 | 70 | 120 | 0.00132 |
| **S90** | 50 | 10 | 60 | 15 | 60 | 80 | 90 | 70 | 150 | 0.00198 |
| **S91** | 50 | 10 | 60 | 15 | 60 | 80 | 90 | 80 | 120 | 0.00033 |
| **S92** | 50 | 10 | 60 | 15 | 60 | 80 | 90 | 80 | 150 | 0.00050 |
| **S93** | 50 | 10 | 60 | 15 | 60 | 80 | 100 | 70 | 120 | 0.00044 |
| **S94** | 50 | 10 | 60 | 15 | 60 | 80 | 100 | 70 | 150 | 0.00066 |
| **S95** | 50 | 10 | 60 | 15 | 60 | 80 | 100 | 80 | 120 | 0.00011 |
| **S96** | 50 | 10 | 60 | 15 | 60 | 80 | 100 | 80 | 150 | 0.00017 |
| **S97** | 50 | 10 | 60 | 25 | 50 | 70 | 90 | 70 | 120 | 0.00019 |
| **S98** | 50 | 10 | 60 | 25 | 50 | 70 | 90 | 70 | 150 | 0.00028 |
| **S99** | 50 | 10 | 60 | 25 | 50 | 70 | 90 | 80 | 120 | 0.00005 |
| **S100** | 50 | 10 | 60 | 25 | 50 | 70 | 90 | 80 | 150 | 0.00007 |
| **S101** | 50 | 10 | 60 | 25 | 50 | 70 | 100 | 70 | 120 | 0.00006 |
| **S102** | 50 | 10 | 60 | 25 | 50 | 70 | 100 | 70 | 150 | 0.00009 |
| **S103** | 50 | 10 | 60 | 25 | 50 | 70 | 100 | 80 | 120 | 0.00002 |
| **S104** | 50 | 10 | 60 | 25 | 50 | 70 | 100 | 80 | 150 | 0.00002 |
| **S105** | 50 | 10 | 60 | 25 | 50 | 80 | 90 | 70 | 120 | 0.00044 |
| **S106** | 50 | 10 | 60 | 25 | 50 | 80 | 90 | 70 | 150 | 0.00066 |
| **S107** | 50 | 10 | 60 | 25 | 50 | 80 | 90 | 80 | 120 | 0.00011 |
| **S108** | 50 | 10 | 60 | 25 | 50 | 80 | 90 | 80 | 150 | 0.00017 |
| **S109** | 50 | 10 | 60 | 25 | 50 | 80 | 100 | 70 | 120 | 0.00015 |

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| **S110** | 50 | 10 | 60 | 25 | 50 | 80 | 100 | 70 | 150 | 0.00022 |
| **S111** | 50 | 10 | 60 | 25 | 50 | 80 | 100 | 80 | 120 | 0.00004 |
| **S112** | 50 | 10 | 60 | 25 | 50 | 80 | 100 | 80 | 150 | 0.00006 |
| **S113** | 50 | 10 | 60 | 25 | 60 | 70 | 90 | 70 | 120 | 0.00006 |
| **S114** | 50 | 10 | 60 | 25 | 60 | 70 | 90 | 70 | 150 | 0.00009 |
| **S115** | 50 | 10 | 60 | 25 | 60 | 70 | 90 | 80 | 120 | 0.00002 |
| **S116** | 50 | 10 | 60 | 25 | 60 | 70 | 90 | 80 | 150 | 0.00002 |
| **S117** | 50 | 10 | 60 | 25 | 60 | 70 | 100 | 70 | 120 | 0.00002 |
| **S118** | 50 | 10 | 60 | 25 | 60 | 70 | 100 | 70 | 150 | 0.00003 |
| **S119** | 50 | 10 | 60 | 25 | 60 | 70 | 100 | 80 | 120 | 0.00001 |
| **S120** | 50 | 10 | 60 | 25 | 60 | 70 | 100 | 80 | 150 | 0.00001 |
| **S121** | 50 | 10 | 60 | 25 | 60 | 80 | 90 | 70 | 120 | 0.00015 |
| **S122** | 50 | 10 | 60 | 25 | 60 | 80 | 90 | 70 | 150 | 0.00022 |
| **S123** | 50 | 10 | 60 | 25 | 60 | 80 | 90 | 80 | 120 | 0.00004 |
| **S124** | 50 | 10 | 60 | 25 | 60 | 80 | 90 | 80 | 150 | 0.00006 |
| **S125** | 50 | 10 | 60 | 25 | 60 | 80 | 100 | 70 | 120 | 0.00005 |
| **S126** | 50 | 10 | 60 | 25 | 60 | 80 | 100 | 70 | 150 | 0.00007 |
| **S127** | 50 | 10 | 60 | 25 | 60 | 80 | 100 | 80 | 120 | 0.00001 |
| **S128** | 50 | 10 | 60 | 25 | 60 | 80 | 100 | 80 | 150 | 0.00002 |
| **S129** | 50 | 20 | 40 | 15 | 50 | 70 | 90 | 70 | 120 | 0.01264 |
| **S130** | 50 | 20 | 40 | 15 | 50 | 70 | 90 | 70 | 150 | 0.01895 |
| **S131** | 50 | 20 | 40 | 15 | 50 | 70 | 90 | 80 | 120 | 0.00316 |
| **S132** | 50 | 20 | 40 | 15 | 50 | 70 | 90 | 80 | 150 | 0.00474 |
| **S133** | 50 | 20 | 40 | 15 | 50 | 70 | 100 | 70 | 120 | 0.00421 |
| **S134** | 50 | 20 | 40 | 15 | 50 | 70 | 100 | 70 | 150 | 0.00632 |
| **S135** | 50 | 20 | 40 | 15 | 50 | 70 | 100 | 80 | 120 | 0.00105 |
| **S136** | 50 | 20 | 40 | 15 | 50 | 70 | 100 | 80 | 150 | 0.00158 |
| **S137** | 50 | 20 | 40 | 15 | 50 | 80 | 90 | 70 | 120 | 0.02948 |
| **S138** | 50 | 20 | 40 | 15 | 50 | 80 | 90 | 70 | 150 | 0.04423 |
| **S139** | 50 | 20 | 40 | 15 | 50 | 80 | 90 | 80 | 120 | 0.00737 |
| **S140** | 50 | 20 | 40 | 15 | 50 | 80 | 90 | 80 | 150 | 0.01106 |
| **S141** | 50 | 20 | 40 | 15 | 50 | 80 | 100 | 70 | 120 | 0.00983 |
| **S142** | 50 | 20 | 40 | 15 | 50 | 80 | 100 | 70 | 150 | 0.01474 |
| **S143** | 50 | 20 | 40 | 15 | 50 | 80 | 100 | 80 | 120 | 0.00246 |
| **S144** | 50 | 20 | 40 | 15 | 50 | 80 | 100 | 80 | 150 | 0.00369 |
| **S145** | 50 | 20 | 40 | 15 | 60 | 70 | 90 | 70 | 120 | 0.00421 |
| **S146** | 50 | 20 | 40 | 15 | 60 | 70 | 90 | 70 | 150 | 0.00632 |
| **S147** | 50 | 20 | 40 | 15 | 60 | 70 | 90 | 80 | 120 | 0.00105 |
| **S148** | 50 | 20 | 40 | 15 | 60 | 70 | 90 | 80 | 150 | 0.00158 |
| **S149** | 50 | 20 | 40 | 15 | 60 | 70 | 100 | 70 | 120 | 0.00140 |

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| **S150** | 50 | 20 | 40 | 15 | 60 | 70 | 100 | 70 | 150 | 0.00211 |
| **S151** | 50 | 20 | 40 | 15 | 60 | 70 | 100 | 80 | 120 | 0.00035 |
| **S152** | 50 | 20 | 40 | 15 | 60 | 70 | 100 | 80 | 150 | 0.00053 |
| **S153** | 50 | 20 | 40 | 15 | 60 | 80 | 90 | 70 | 120 | 0.00983 |
| **S154** | 50 | 20 | 40 | 15 | 60 | 80 | 90 | 70 | 150 | 0.01474 |
| **S155** | 50 | 20 | 40 | 15 | 60 | 80 | 90 | 80 | 120 | 0.00246 |
| **S156** | 50 | 20 | 40 | 15 | 60 | 80 | 90 | 80 | 150 | 0.00369 |
| **S157** | 50 | 20 | 40 | 15 | 60 | 80 | 100 | 70 | 120 | 0.00328 |
| **S158** | 50 | 20 | 40 | 15 | 60 | 80 | 100 | 70 | 150 | 0.00491 |
| **S159** | 50 | 20 | 40 | 15 | 60 | 80 | 100 | 80 | 120 | 0.00082 |
| **S160** | 50 | 20 | 40 | 15 | 60 | 80 | 100 | 80 | 150 | 0.00123 |
| **S161** | 50 | 20 | 40 | 25 | 50 | 70 | 90 | 70 | 120 | 0.00140 |
| **S162** | 50 | 20 | 40 | 25 | 50 | 70 | 90 | 70 | 150 | 0.00211 |
| **S163** | 50 | 20 | 40 | 25 | 50 | 70 | 90 | 80 | 120 | 0.00035 |
| **S164** | 50 | 20 | 40 | 25 | 50 | 70 | 90 | 80 | 150 | 0.00053 |
| **S165** | 50 | 20 | 40 | 25 | 50 | 70 | 100 | 70 | 120 | 0.00047 |
| **S166** | 50 | 20 | 40 | 25 | 50 | 70 | 100 | 70 | 150 | 0.00070 |
| **S167** | 50 | 20 | 40 | 25 | 50 | 70 | 100 | 80 | 120 | 0.00012 |
| **S168** | 50 | 20 | 40 | 25 | 50 | 70 | 100 | 80 | 150 | 0.00018 |
| **S169** | 50 | 20 | 40 | 25 | 50 | 80 | 90 | 70 | 120 | 0.00328 |
| **S170** | 50 | 20 | 40 | 25 | 50 | 80 | 90 | 70 | 150 | 0.00491 |
| **S171** | 50 | 20 | 40 | 25 | 50 | 80 | 90 | 80 | 120 | 0.00082 |
| **S172** | 50 | 20 | 40 | 25 | 50 | 80 | 90 | 80 | 150 | 0.00123 |
| **S173** | 50 | 20 | 40 | 25 | 50 | 80 | 100 | 70 | 120 | 0.00109 |
| **S174** | 50 | 20 | 40 | 25 | 50 | 80 | 100 | 70 | 150 | 0.00164 |
| **S175** | 50 | 20 | 40 | 25 | 50 | 80 | 100 | 80 | 120 | 0.00027 |
| **S176** | 50 | 20 | 40 | 25 | 50 | 80 | 100 | 80 | 150 | 0.00041 |
| **S177** | 50 | 20 | 40 | 25 | 60 | 70 | 90 | 70 | 120 | 0.00047 |
| **S178** | 50 | 20 | 40 | 25 | 60 | 70 | 90 | 70 | 150 | 0.00070 |
| **S179** | 50 | 20 | 40 | 25 | 60 | 70 | 90 | 80 | 120 | 0.00012 |
| **S180** | 50 | 20 | 40 | 25 | 60 | 70 | 90 | 80 | 150 | 0.00018 |
| **S181** | 50 | 20 | 40 | 25 | 60 | 70 | 100 | 70 | 120 | 0.00016 |
| **S182** | 50 | 20 | 40 | 25 | 60 | 70 | 100 | 70 | 150 | 0.00023 |
| **S183** | 50 | 20 | 40 | 25 | 60 | 70 | 100 | 80 | 120 | 0.00004 |
| **S184** | 50 | 20 | 40 | 25 | 60 | 70 | 100 | 80 | 150 | 0.00006 |
| **S185** | 50 | 20 | 40 | 25 | 60 | 80 | 90 | 70 | 120 | 0.00109 |
| **S186** | 50 | 20 | 40 | 25 | 60 | 80 | 90 | 70 | 150 | 0.00164 |
| **S187** | 50 | 20 | 40 | 25 | 60 | 80 | 90 | 80 | 120 | 0.00027 |
| **S188** | 50 | 20 | 40 | 25 | 60 | 80 | 90 | 80 | 150 | 0.00041 |
| **S189** | 50 | 20 | 40 | 25 | 60 | 80 | 100 | 70 | 120 | 0.00036 |

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| **S190** | 50 | 20 | 40 | 25 | 60 | 80 | 100 | 70 | 150 | 0.00055 |
| **S191** | 50 | 20 | 40 | 25 | 60 | 80 | 100 | 80 | 120 | 0.00009 |
| **S192** | 50 | 20 | 40 | 25 | 60 | 80 | 100 | 80 | 150 | 0.00014 |
| **S193** | 50 | 20 | 60 | 15 | 50 | 70 | 90 | 70 | 120 | 0.00680 |
| **S194** | 50 | 20 | 60 | 15 | 50 | 70 | 90 | 70 | 150 | 0.01021 |
| **S195** | 50 | 20 | 60 | 15 | 50 | 70 | 90 | 80 | 120 | 0.00170 |
| **S196** | 50 | 20 | 60 | 15 | 50 | 70 | 90 | 80 | 150 | 0.00255 |
| **S197** | 50 | 20 | 60 | 15 | 50 | 70 | 100 | 70 | 120 | 0.00227 |
| **S198** | 50 | 20 | 60 | 15 | 50 | 70 | 100 | 70 | 150 | 0.00340 |
| **S199** | 50 | 20 | 60 | 15 | 50 | 70 | 100 | 80 | 120 | 0.00057 |
| **S200** | 50 | 20 | 60 | 15 | 50 | 70 | 100 | 80 | 150 | 0.00085 |
| **S201** | 50 | 20 | 60 | 15 | 50 | 80 | 90 | 70 | 120 | 0.01588 |
| **S202** | 50 | 20 | 60 | 15 | 50 | 80 | 90 | 70 | 150 | 0.02381 |
| **S203** | 50 | 20 | 60 | 15 | 50 | 80 | 90 | 80 | 120 | 0.00397 |
| **S204** | 50 | 20 | 60 | 15 | 50 | 80 | 90 | 80 | 150 | 0.00595 |
| **S205** | 50 | 20 | 60 | 15 | 50 | 80 | 100 | 70 | 120 | 0.00529 |
| **S206** | 50 | 20 | 60 | 15 | 50 | 80 | 100 | 70 | 150 | 0.00794 |
| **S207** | 50 | 20 | 60 | 15 | 50 | 80 | 100 | 80 | 120 | 0.00132 |
| **S208** | 50 | 20 | 60 | 15 | 50 | 80 | 100 | 80 | 150 | 0.00198 |
| **S209** | 50 | 20 | 60 | 15 | 60 | 70 | 90 | 70 | 120 | 0.00227 |
| **S210** | 50 | 20 | 60 | 15 | 60 | 70 | 90 | 70 | 150 | 0.00340 |
| **S211** | 50 | 20 | 60 | 15 | 60 | 70 | 90 | 80 | 120 | 0.00057 |
| **S212** | 50 | 20 | 60 | 15 | 60 | 70 | 90 | 80 | 150 | 0.00085 |
| **S213** | 50 | 20 | 60 | 15 | 60 | 70 | 100 | 70 | 120 | 0.00076 |
| **S214** | 50 | 20 | 60 | 15 | 60 | 70 | 100 | 70 | 150 | 0.00113 |
| **S215** | 50 | 20 | 60 | 15 | 60 | 70 | 100 | 80 | 120 | 0.00019 |
| **S216** | 50 | 20 | 60 | 15 | 60 | 70 | 100 | 80 | 150 | 0.00028 |
| **S217** | 50 | 20 | 60 | 15 | 60 | 80 | 90 | 70 | 120 | 0.00529 |
| **S218** | 50 | 20 | 60 | 15 | 60 | 80 | 90 | 70 | 150 | 0.00794 |
| **S219** | 50 | 20 | 60 | 15 | 60 | 80 | 90 | 80 | 120 | 0.00132 |
| **S220** | 50 | 20 | 60 | 15 | 60 | 80 | 90 | 80 | 150 | 0.00198 |
| **S221** | 50 | 20 | 60 | 15 | 60 | 80 | 100 | 70 | 120 | 0.00176 |
| **S222** | 50 | 20 | 60 | 15 | 60 | 80 | 100 | 70 | 150 | 0.00265 |
| **S223** | 50 | 20 | 60 | 15 | 60 | 80 | 100 | 80 | 120 | 0.00044 |
| **S224** | 50 | 20 | 60 | 15 | 60 | 80 | 100 | 80 | 150 | 0.00066 |
| **S225** | 50 | 20 | 60 | 25 | 50 | 70 | 90 | 70 | 120 | 0.00076 |
| **S226** | 50 | 20 | 60 | 25 | 50 | 70 | 90 | 70 | 150 | 0.00113 |
| **S227** | 50 | 20 | 60 | 25 | 50 | 70 | 90 | 80 | 120 | 0.00019 |
| **S228** | 50 | 20 | 60 | 25 | 50 | 70 | 90 | 80 | 150 | 0.00028 |
| **S229** | 50 | 20 | 60 | 25 | 50 | 70 | 100 | 70 | 120 | 0.00025 |

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| **S230** | 50 | 20 | 60 | 25 | 50 | 70 | 100 | 70 | 150 | 0.00038 |
| **S231** | 50 | 20 | 60 | 25 | 50 | 70 | 100 | 80 | 120 | 0.00006 |
| **S232** | 50 | 20 | 60 | 25 | 50 | 70 | 100 | 80 | 150 | 0.00009 |
| **S233** | 50 | 20 | 60 | 25 | 50 | 80 | 90 | 70 | 120 | 0.00176 |
| **S234** | 50 | 20 | 60 | 25 | 50 | 80 | 90 | 70 | 150 | 0.00265 |
| **S235** | 50 | 20 | 60 | 25 | 50 | 80 | 90 | 80 | 120 | 0.00044 |
| **S236** | 50 | 20 | 60 | 25 | 50 | 80 | 90 | 80 | 150 | 0.00066 |
| **S237** | 50 | 20 | 60 | 25 | 50 | 80 | 100 | 70 | 120 | 0.00059 |
| **S238** | 50 | 20 | 60 | 25 | 50 | 80 | 100 | 70 | 150 | 0.00088 |
| **S239** | 50 | 20 | 60 | 25 | 50 | 80 | 100 | 80 | 120 | 0.00015 |
| **S240** | 50 | 20 | 60 | 25 | 50 | 80 | 100 | 80 | 150 | 0.00022 |
| **S241** | 50 | 20 | 60 | 25 | 60 | 70 | 90 | 70 | 120 | 0.00025 |
| **S242** | 50 | 20 | 60 | 25 | 60 | 70 | 90 | 70 | 150 | 0.00038 |
| **S243** | 50 | 20 | 60 | 25 | 60 | 70 | 90 | 80 | 120 | 0.00006 |
| **S244** | 50 | 20 | 60 | 25 | 60 | 70 | 90 | 80 | 150 | 0.00009 |
| **S245** | 50 | 20 | 60 | 25 | 60 | 70 | 100 | 70 | 120 | 0.00008 |
| **S246** | 50 | 20 | 60 | 25 | 60 | 70 | 100 | 70 | 150 | 0.00013 |
| **S247** | 50 | 20 | 60 | 25 | 60 | 70 | 100 | 80 | 120 | 0.00002 |
| **S248** | 50 | 20 | 60 | 25 | 60 | 70 | 100 | 80 | 150 | 0.00003 |
| **S249** | 50 | 20 | 60 | 25 | 60 | 80 | 90 | 70 | 120 | 0.00059 |
| **S250** | 50 | 20 | 60 | 25 | 60 | 80 | 90 | 70 | 150 | 0.00088 |
| **S251** | 50 | 20 | 60 | 25 | 60 | 80 | 90 | 80 | 120 | 0.00015 |
| **S252** | 50 | 20 | 60 | 25 | 60 | 80 | 90 | 80 | 150 | 0.00022 |
| **S253** | 50 | 20 | 60 | 25 | 60 | 80 | 100 | 70 | 120 | 0.00020 |
| **S254** | 50 | 20 | 60 | 25 | 60 | 80 | 100 | 70 | 150 | 0.00029 |
| **S255** | 50 | 20 | 60 | 25 | 60 | 80 | 100 | 80 | 120 | 0.00005 |
| **S256** | 50 | 20 | 60 | 25 | 60 | 80 | 100 | 80 | 150 | 0.00007 |
| **S257** | 75 | 10 | 40 | 15 | 50 | 70 | 90 | 70 | 120 | 0.00316 |
| **S258** | 75 | 10 | 40 | 15 | 50 | 70 | 90 | 70 | 150 | 0.00474 |
| **S259** | 75 | 10 | 40 | 15 | 50 | 70 | 90 | 80 | 120 | 0.00079 |
| **S260** | 75 | 10 | 40 | 15 | 50 | 70 | 90 | 80 | 150 | 0.00118 |
| **S261** | 75 | 10 | 40 | 15 | 50 | 70 | 100 | 70 | 120 | 0.00105 |
| **S262** | 75 | 10 | 40 | 15 | 50 | 70 | 100 | 70 | 150 | 0.00158 |
| **S263** | 75 | 10 | 40 | 15 | 50 | 70 | 100 | 80 | 120 | 0.00026 |
| **S264** | 75 | 10 | 40 | 15 | 50 | 70 | 100 | 80 | 150 | 0.00039 |
| **S265** | 75 | 10 | 40 | 15 | 50 | 80 | 90 | 70 | 120 | 0.00737 |
| **S266** | 75 | 10 | 40 | 15 | 50 | 80 | 90 | 70 | 150 | 0.01106 |
| **S267** | 75 | 10 | 40 | 15 | 50 | 80 | 90 | 80 | 120 | 0.00184 |
| **S268** | 75 | 10 | 40 | 15 | 50 | 80 | 90 | 80 | 150 | 0.00276 |
| **S269** | 75 | 10 | 40 | 15 | 50 | 80 | 100 | 70 | 120 | 0.00246 |

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| **S270** | 75 | 10 | 40 | 15 | 50 | 80 | 100 | 70 | 150 | 0.00369 |
| **S271** | 75 | 10 | 40 | 15 | 50 | 80 | 100 | 80 | 120 | 0.00061 |
| **S272** | 75 | 10 | 40 | 15 | 50 | 80 | 100 | 80 | 150 | 0.00092 |
| **S273** | 75 | 10 | 40 | 15 | 60 | 70 | 90 | 70 | 120 | 0.00105 |
| **S274** | 75 | 10 | 40 | 15 | 60 | 70 | 90 | 70 | 150 | 0.00158 |
| **S275** | 75 | 10 | 40 | 15 | 60 | 70 | 90 | 80 | 120 | 0.00026 |
| **S276** | 75 | 10 | 40 | 15 | 60 | 70 | 90 | 80 | 150 | 0.00039 |
| **S277** | 75 | 10 | 40 | 15 | 60 | 70 | 100 | 70 | 120 | 0.00035 |
| **S278** | 75 | 10 | 40 | 15 | 60 | 70 | 100 | 70 | 150 | 0.00053 |
| **S279** | 75 | 10 | 40 | 15 | 60 | 70 | 100 | 80 | 120 | 0.00009 |
| **S280** | 75 | 10 | 40 | 15 | 60 | 70 | 100 | 80 | 150 | 0.00013 |
| **S281** | 75 | 10 | 40 | 15 | 60 | 80 | 90 | 70 | 120 | 0.00246 |
| **S282** | 75 | 10 | 40 | 15 | 60 | 80 | 90 | 70 | 150 | 0.00369 |
| **S283** | 75 | 10 | 40 | 15 | 60 | 80 | 90 | 80 | 120 | 0.00061 |
| **S284** | 75 | 10 | 40 | 15 | 60 | 80 | 90 | 80 | 150 | 0.00092 |
| **S285** | 75 | 10 | 40 | 15 | 60 | 80 | 100 | 70 | 120 | 0.00082 |
| **S286** | 75 | 10 | 40 | 15 | 60 | 80 | 100 | 70 | 150 | 0.00123 |
| **S287** | 75 | 10 | 40 | 15 | 60 | 80 | 100 | 80 | 120 | 0.00020 |
| **S288** | 75 | 10 | 40 | 15 | 60 | 80 | 100 | 80 | 150 | 0.00031 |
| **S289** | 75 | 10 | 40 | 25 | 50 | 70 | 90 | 70 | 120 | 0.00035 |
| **S290** | 75 | 10 | 40 | 25 | 50 | 70 | 90 | 70 | 150 | 0.00053 |
| **S291** | 75 | 10 | 40 | 25 | 50 | 70 | 90 | 80 | 120 | 0.00009 |
| **S292** | 75 | 10 | 40 | 25 | 50 | 70 | 90 | 80 | 150 | 0.00013 |
| **S293** | 75 | 10 | 40 | 25 | 50 | 70 | 100 | 70 | 120 | 0.00012 |
| **S294** | 75 | 10 | 40 | 25 | 50 | 70 | 100 | 70 | 150 | 0.00018 |
| **S295** | 75 | 10 | 40 | 25 | 50 | 70 | 100 | 80 | 120 | 0.00003 |
| **S296** | 75 | 10 | 40 | 25 | 50 | 70 | 100 | 80 | 150 | 0.00004 |
| **S297** | 75 | 10 | 40 | 25 | 50 | 80 | 90 | 70 | 120 | 0.00082 |
| **S298** | 75 | 10 | 40 | 25 | 50 | 80 | 90 | 70 | 150 | 0.00123 |
| **S299** | 75 | 10 | 40 | 25 | 50 | 80 | 90 | 80 | 120 | 0.00020 |
| **S300** | 75 | 10 | 40 | 25 | 50 | 80 | 90 | 80 | 150 | 0.00031 |
| **S301** | 75 | 10 | 40 | 25 | 50 | 80 | 100 | 70 | 120 | 0.00027 |
| **S302** | 75 | 10 | 40 | 25 | 50 | 80 | 100 | 70 | 150 | 0.00041 |
| **S303** | 75 | 10 | 40 | 25 | 50 | 80 | 100 | 80 | 120 | 0.00007 |
| **S304** | 75 | 10 | 40 | 25 | 50 | 80 | 100 | 80 | 150 | 0.00010 |
| **S305** | 75 | 10 | 40 | 25 | 60 | 70 | 90 | 70 | 120 | 0.00012 |
| **S306** | 75 | 10 | 40 | 25 | 60 | 70 | 90 | 70 | 150 | 0.00018 |
| **S307** | 75 | 10 | 40 | 25 | 60 | 70 | 90 | 80 | 120 | 0.00003 |
| **S308** | 75 | 10 | 40 | 25 | 60 | 70 | 90 | 80 | 150 | 0.00004 |
| **S309** | 75 | 10 | 40 | 25 | 60 | 70 | 100 | 70 | 120 | 0.00004 |

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|---|---|---|---|---|---|---|---|---|---|---|
| **S310** | 75 | 10 | 40 | 25 | 60 | 70 | 100 | 70 | 150 | 0.00006 |
| **S311** | 75 | 10 | 40 | 25 | 60 | 70 | 100 | 80 | 120 | 0.00001 |
| **S312** | 75 | 10 | 40 | 25 | 60 | 70 | 100 | 80 | 150 | 0.00001 |
| **S313** | 75 | 10 | 40 | 25 | 60 | 80 | 90 | 70 | 120 | 0.00027 |
| **S314** | 75 | 10 | 40 | 25 | 60 | 80 | 90 | 70 | 150 | 0.00041 |
| **S315** | 75 | 10 | 40 | 25 | 60 | 80 | 90 | 80 | 120 | 0.00007 |
| **S316** | 75 | 10 | 40 | 25 | 60 | 80 | 90 | 80 | 150 | 0.00010 |
| **S317** | 75 | 10 | 40 | 25 | 60 | 80 | 100 | 70 | 120 | 0.00009 |
| **S318** | 75 | 10 | 40 | 25 | 60 | 80 | 100 | 70 | 150 | 0.00014 |
| **S319** | 75 | 10 | 40 | 25 | 60 | 80 | 100 | 80 | 120 | 0.00002 |
| **S320** | 75 | 10 | 40 | 25 | 60 | 80 | 100 | 80 | 150 | 0.00003 |
| **S321** | 75 | 10 | 60 | 15 | 50 | 70 | 90 | 70 | 120 | 0.00170 |
| **S322** | 75 | 10 | 60 | 15 | 50 | 70 | 90 | 70 | 150 | 0.00255 |
| **S323** | 75 | 10 | 60 | 15 | 50 | 70 | 90 | 80 | 120 | 0.00043 |
| **S324** | 75 | 10 | 60 | 15 | 50 | 70 | 90 | 80 | 150 | 0.00064 |
| **S325** | 75 | 10 | 60 | 15 | 50 | 70 | 100 | 70 | 120 | 0.00057 |
| **S326** | 75 | 10 | 60 | 15 | 50 | 70 | 100 | 70 | 150 | 0.00085 |
| **S327** | 75 | 10 | 60 | 15 | 50 | 70 | 100 | 80 | 120 | 0.00014 |
| **S328** | 75 | 10 | 60 | 15 | 50 | 70 | 100 | 80 | 150 | 0.00021 |
| **S329** | 75 | 10 | 60 | 15 | 50 | 80 | 90 | 70 | 120 | 0.00397 |
| **S330** | 75 | 10 | 60 | 15 | 50 | 80 | 90 | 70 | 150 | 0.00595 |
| **S331** | 75 | 10 | 60 | 15 | 50 | 80 | 90 | 80 | 120 | 0.00099 |
| **S332** | 75 | 10 | 60 | 15 | 50 | 80 | 90 | 80 | 150 | 0.00149 |
| **S333** | 75 | 10 | 60 | 15 | 50 | 80 | 100 | 70 | 120 | 0.00132 |
| **S334** | 75 | 10 | 60 | 15 | 50 | 80 | 100 | 70 | 150 | 0.00198 |
| **S335** | 75 | 10 | 60 | 15 | 50 | 80 | 100 | 80 | 120 | 0.00033 |
| **S336** | 75 | 10 | 60 | 15 | 50 | 80 | 100 | 80 | 150 | 0.00050 |
| **S337** | 75 | 10 | 60 | 15 | 60 | 70 | 90 | 70 | 120 | 0.00057 |
| **S338** | 75 | 10 | 60 | 15 | 60 | 70 | 90 | 70 | 150 | 0.00085 |
| **S339** | 75 | 10 | 60 | 15 | 60 | 70 | 90 | 80 | 120 | 0.00014 |
| **S340** | 75 | 10 | 60 | 15 | 60 | 70 | 90 | 80 | 150 | 0.00021 |
| **S341** | 75 | 10 | 60 | 15 | 60 | 70 | 100 | 70 | 120 | 0.00019 |
| **S342** | 75 | 10 | 60 | 15 | 60 | 70 | 100 | 70 | 150 | 0.00028 |
| **S343** | 75 | 10 | 60 | 15 | 60 | 70 | 100 | 80 | 120 | 0.00005 |
| **S344** | 75 | 10 | 60 | 15 | 60 | 70 | 100 | 80 | 150 | 0.00007 |
| **S345** | 75 | 10 | 60 | 15 | 60 | 80 | 90 | 70 | 120 | 0.00132 |
| **S346** | 75 | 10 | 60 | 15 | 60 | 80 | 90 | 70 | 150 | 0.00198 |
| **S347** | 75 | 10 | 60 | 15 | 60 | 80 | 90 | 80 | 120 | 0.00033 |
| **S348** | 75 | 10 | 60 | 15 | 60 | 80 | 90 | 80 | 150 | 0.00050 |
| **S349** | 75 | 10 | 60 | 15 | 60 | 80 | 100 | 70 | 120 | 0.00044 |

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|---|---|---|---|---|---|---|---|---|---|---|
| **S350** | 75 | 10 | 60 | 15 | 60 | 80 | 100 | 70 | 150 | 0.00066 |
| **S351** | 75 | 10 | 60 | 15 | 60 | 80 | 100 | 80 | 120 | 0.00011 |
| **S352** | 75 | 10 | 60 | 15 | 60 | 80 | 100 | 80 | 150 | 0.00017 |
| **S353** | 75 | 10 | 60 | 25 | 50 | 70 | 90 | 70 | 120 | 0.00019 |
| **S354** | 75 | 10 | 60 | 25 | 50 | 70 | 90 | 70 | 150 | 0.00028 |
| **S355** | 75 | 10 | 60 | 25 | 50 | 70 | 90 | 80 | 120 | 0.00005 |
| **S356** | 75 | 10 | 60 | 25 | 50 | 70 | 90 | 80 | 150 | 0.00007 |
| **S357** | 75 | 10 | 60 | 25 | 50 | 70 | 100 | 70 | 120 | 0.00006 |
| **S358** | 75 | 10 | 60 | 25 | 50 | 70 | 100 | 70 | 150 | 0.00009 |
| **S359** | 75 | 10 | 60 | 25 | 50 | 70 | 100 | 80 | 120 | 0.00002 |
| **S360** | 75 | 10 | 60 | 25 | 50 | 70 | 100 | 80 | 150 | 0.00002 |
| **S361** | 75 | 10 | 60 | 25 | 50 | 80 | 90 | 70 | 120 | 0.00044 |
| **S362** | 75 | 10 | 60 | 25 | 50 | 80 | 90 | 70 | 150 | 0.00066 |
| **S363** | 75 | 10 | 60 | 25 | 50 | 80 | 90 | 80 | 120 | 0.00011 |
| **S364** | 75 | 10 | 60 | 25 | 50 | 80 | 90 | 80 | 150 | 0.00017 |
| **S365** | 75 | 10 | 60 | 25 | 50 | 80 | 100 | 70 | 120 | 0.00015 |
| **S366** | 75 | 10 | 60 | 25 | 50 | 80 | 100 | 70 | 150 | 0.00022 |
| **S367** | 75 | 10 | 60 | 25 | 50 | 80 | 100 | 80 | 120 | 0.00004 |
| **S368** | 75 | 10 | 60 | 25 | 50 | 80 | 100 | 80 | 150 | 0.00006 |
| **S369** | 75 | 10 | 60 | 25 | 60 | 70 | 90 | 70 | 120 | 0.00006 |
| **S370** | 75 | 10 | 60 | 25 | 60 | 70 | 90 | 70 | 150 | 0.00009 |
| **S371** | 75 | 10 | 60 | 25 | 60 | 70 | 90 | 80 | 120 | 0.00002 |
| **S372** | 75 | 10 | 60 | 25 | 60 | 70 | 90 | 80 | 150 | 0.00002 |
| **S373** | 75 | 10 | 60 | 25 | 60 | 70 | 100 | 70 | 120 | 0.00002 |
| **S374** | 75 | 10 | 60 | 25 | 60 | 70 | 100 | 70 | 150 | 0.00003 |
| **S375** | 75 | 10 | 60 | 25 | 60 | 70 | 100 | 80 | 120 | 0.00001 |
| **S376** | 75 | 10 | 60 | 25 | 60 | 70 | 100 | 80 | 150 | 0.00001 |
| **S377** | 75 | 10 | 60 | 25 | 60 | 80 | 90 | 70 | 120 | 0.00015 |
| **S378** | 75 | 10 | 60 | 25 | 60 | 80 | 90 | 70 | 150 | 0.00022 |
| **S379** | 75 | 10 | 60 | 25 | 60 | 80 | 90 | 80 | 120 | 0.00004 |
| **S380** | 75 | 10 | 60 | 25 | 60 | 80 | 90 | 80 | 150 | 0.00006 |
| **S381** | 75 | 10 | 60 | 25 | 60 | 80 | 100 | 70 | 120 | 0.00005 |
| **S382** | 75 | 10 | 60 | 25 | 60 | 80 | 100 | 70 | 150 | 0.00007 |
| **S383** | 75 | 10 | 60 | 25 | 60 | 80 | 100 | 80 | 120 | 0.00001 |
| **S384** | 75 | 10 | 60 | 25 | 60 | 80 | 100 | 80 | 150 | 0.00002 |
| **S385** | 75 | 20 | 40 | 15 | 50 | 70 | 90 | 70 | 120 | 0.01264 |
| **S386** | 75 | 20 | 40 | 15 | 50 | 70 | 90 | 70 | 150 | 0.01895 |
| **S387** | 75 | 20 | 40 | 15 | 50 | 70 | 90 | 80 | 120 | 0.00316 |
| **S388** | 75 | 20 | 40 | 15 | 50 | 70 | 90 | 80 | 150 | 0.00474 |
| **S389** | 75 | 20 | 40 | 15 | 50 | 70 | 100 | 70 | 120 | 0.00421 |

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|---|---|---|---|---|---|---|---|---|---|
| **S390** | 75 | 20 | 40 | 15 | 50 | 70 | 100 | 70 | 150 | 0.00632 |
| **S391** | 75 | 20 | 40 | 15 | 50 | 70 | 100 | 80 | 120 | 0.00105 |
| **S392** | 75 | 20 | 40 | 15 | 50 | 70 | 100 | 80 | 150 | 0.00158 |
| **S393** | 75 | 20 | 40 | 15 | 50 | 80 | 90 | 70 | 120 | 0.02948 |
| **S394** | 75 | 20 | 40 | 15 | 50 | 80 | 90 | 70 | 150 | 0.04423 |
| **S395** | 75 | 20 | 40 | 15 | 50 | 80 | 90 | 80 | 120 | 0.00737 |
| **S396** | 75 | 20 | 40 | 15 | 50 | 80 | 90 | 80 | 150 | 0.01106 |
| **S397** | 75 | 20 | 40 | 15 | 50 | 80 | 100 | 70 | 120 | 0.00983 |
| **S398** | 75 | 20 | 40 | 15 | 50 | 80 | 100 | 70 | 150 | 0.01474 |
| **S399** | 75 | 20 | 40 | 15 | 50 | 80 | 100 | 80 | 120 | 0.00246 |
| **S400** | 75 | 20 | 40 | 15 | 50 | 80 | 100 | 80 | 150 | 0.00369 |
| **S401** | 75 | 20 | 40 | 15 | 60 | 70 | 90 | 70 | 120 | 0.00421 |
| **S402** | 75 | 20 | 40 | 15 | 60 | 70 | 90 | 70 | 150 | 0.00632 |
| **S403** | 75 | 20 | 40 | 15 | 60 | 70 | 90 | 80 | 120 | 0.00105 |
| **S404** | 75 | 20 | 40 | 15 | 60 | 70 | 90 | 80 | 150 | 0.00158 |
| **S405** | 75 | 20 | 40 | 15 | 60 | 70 | 100 | 70 | 120 | 0.00140 |
| **S406** | 75 | 20 | 40 | 15 | 60 | 70 | 100 | 70 | 150 | 0.00211 |
| **S407** | 75 | 20 | 40 | 15 | 60 | 70 | 100 | 80 | 120 | 0.00035 |
| **S408** | 75 | 20 | 40 | 15 | 60 | 70 | 100 | 80 | 150 | 0.00053 |
| **S409** | 75 | 20 | 40 | 15 | 60 | 80 | 90 | 70 | 120 | 0.00983 |
| **S410** | 75 | 20 | 40 | 15 | 60 | 80 | 90 | 70 | 150 | 0.01474 |
| **S411** | 75 | 20 | 40 | 15 | 60 | 80 | 90 | 80 | 120 | 0.00246 |
| **S412** | 75 | 20 | 40 | 15 | 60 | 80 | 90 | 80 | 150 | 0.00369 |
| **S413** | 75 | 20 | 40 | 15 | 60 | 80 | 100 | 70 | 120 | 0.00328 |
| **S414** | 75 | 20 | 40 | 15 | 60 | 80 | 100 | 70 | 150 | 0.00491 |
| **S415** | 75 | 20 | 40 | 15 | 60 | 80 | 100 | 80 | 120 | 0.00082 |
| **S416** | 75 | 20 | 40 | 15 | 60 | 80 | 100 | 80 | 150 | 0.00123 |
| **S417** | 75 | 20 | 40 | 25 | 50 | 70 | 90 | 70 | 120 | 0.00140 |
| **S418** | 75 | 20 | 40 | 25 | 50 | 70 | 90 | 70 | 150 | 0.00211 |
| **S419** | 75 | 20 | 40 | 25 | 50 | 70 | 90 | 80 | 120 | 0.00035 |
| **S420** | 75 | 20 | 40 | 25 | 50 | 70 | 90 | 80 | 150 | 0.00053 |
| **S421** | 75 | 20 | 40 | 25 | 50 | 70 | 100 | 70 | 120 | 0.00047 |
| **S422** | 75 | 20 | 40 | 25 | 50 | 70 | 100 | 70 | 150 | 0.00070 |
| **S423** | 75 | 20 | 40 | 25 | 50 | 70 | 100 | 80 | 120 | 0.00012 |
| **S424** | 75 | 20 | 40 | 25 | 50 | 70 | 100 | 80 | 150 | 0.00018 |
| **S425** | 75 | 20 | 40 | 25 | 50 | 80 | 90 | 70 | 120 | 0.00328 |
| **S426** | 75 | 20 | 40 | 25 | 50 | 80 | 90 | 70 | 150 | 0.00491 |
| **S427** | 75 | 20 | 40 | 25 | 50 | 80 | 90 | 80 | 120 | 0.00082 |
| **S428** | 75 | 20 | 40 | 25 | 50 | 80 | 90 | 80 | 150 | 0.00123 |
| **S429** | 75 | 20 | 40 | 25 | 50 | 80 | 100 | 70 | 120 | 0.00109 |

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|---|---|---|---|---|---|---|---|---|---|---|
| **S430** | 75 | 20 | 40 | 25 | 50 | 80 | 100 | 70 | 150 | 0.00164 |
| **S431** | 75 | 20 | 40 | 25 | 50 | 80 | 100 | 80 | 120 | 0.00027 |
| **S432** | 75 | 20 | 40 | 25 | 50 | 80 | 100 | 80 | 150 | 0.00041 |
| **S433** | 75 | 20 | 40 | 25 | 60 | 70 | 90 | 70 | 120 | 0.00047 |
| **S434** | 75 | 20 | 40 | 25 | 60 | 70 | 90 | 70 | 150 | 0.00070 |
| **S435** | 75 | 20 | 40 | 25 | 60 | 70 | 90 | 80 | 120 | 0.00012 |
| **S436** | 75 | 20 | 40 | 25 | 60 | 70 | 90 | 80 | 150 | 0.00018 |
| **S437** | 75 | 20 | 40 | 25 | 60 | 70 | 100 | 70 | 120 | 0.00016 |
| **S438** | 75 | 20 | 40 | 25 | 60 | 70 | 100 | 70 | 150 | 0.00023 |
| **S439** | 75 | 20 | 40 | 25 | 60 | 70 | 100 | 80 | 120 | 0.00004 |
| **S440** | 75 | 20 | 40 | 25 | 60 | 70 | 100 | 80 | 150 | 0.00006 |
| **S441** | 75 | 20 | 40 | 25 | 60 | 80 | 90 | 70 | 120 | 0.00109 |
| **S442** | 75 | 20 | 40 | 25 | 60 | 80 | 90 | 70 | 150 | 0.00164 |
| **S443** | 75 | 20 | 40 | 25 | 60 | 80 | 90 | 80 | 120 | 0.00027 |
| **S444** | 75 | 20 | 40 | 25 | 60 | 80 | 90 | 80 | 150 | 0.00041 |
| **S445** | 75 | 20 | 40 | 25 | 60 | 80 | 100 | 70 | 120 | 0.00036 |
| **S446** | 75 | 20 | 40 | 25 | 60 | 80 | 100 | 70 | 150 | 0.00055 |
| **S447** | 75 | 20 | 40 | 25 | 60 | 80 | 100 | 80 | 120 | 0.00009 |
| **S448** | 75 | 20 | 40 | 25 | 60 | 80 | 100 | 80 | 150 | 0.00014 |
| **S449** | 75 | 20 | 60 | 15 | 50 | 70 | 90 | 70 | 120 | 0.00680 |
| **S450** | 75 | 20 | 60 | 15 | 50 | 70 | 90 | 70 | 150 | 0.01021 |
| **S451** | 75 | 20 | 60 | 15 | 50 | 70 | 90 | 80 | 120 | 0.00170 |
| **S452** | 75 | 20 | 60 | 15 | 50 | 70 | 90 | 80 | 150 | 0.00255 |
| **S453** | 75 | 20 | 60 | 15 | 50 | 70 | 100 | 70 | 120 | 0.00227 |
| **S454** | 75 | 20 | 60 | 15 | 50 | 70 | 100 | 70 | 150 | 0.00340 |
| **S455** | 75 | 20 | 60 | 15 | 50 | 70 | 100 | 80 | 120 | 0.00057 |
| **S456** | 75 | 20 | 60 | 15 | 50 | 70 | 100 | 80 | 150 | 0.00085 |
| **S457** | 75 | 20 | 60 | 15 | 50 | 80 | 90 | 70 | 120 | 0.01588 |
| **S458** | 75 | 20 | 60 | 15 | 50 | 80 | 90 | 70 | 150 | 0.02381 |
| **S459** | 75 | 20 | 60 | 15 | 50 | 80 | 90 | 80 | 120 | 0.00397 |
| **S460** | 75 | 20 | 60 | 15 | 50 | 80 | 90 | 80 | 150 | 0.00595 |
| **S461** | 75 | 20 | 60 | 15 | 50 | 80 | 100 | 70 | 120 | 0.00529 |
| **S462** | 75 | 20 | 60 | 15 | 50 | 80 | 100 | 70 | 150 | 0.00794 |
| **S463** | 75 | 20 | 60 | 15 | 50 | 80 | 100 | 80 | 120 | 0.00132 |
| **S464** | 75 | 20 | 60 | 15 | 50 | 80 | 100 | 80 | 150 | 0.00198 |
| **S465** | 75 | 20 | 60 | 15 | 60 | 70 | 90 | 70 | 120 | 0.00227 |
| **S466** | 75 | 20 | 60 | 15 | 60 | 70 | 90 | 70 | 150 | 0.00340 |
| **S467** | 75 | 20 | 60 | 15 | 60 | 70 | 90 | 80 | 120 | 0.00057 |
| **S468** | 75 | 20 | 60 | 15 | 60 | 70 | 90 | 80 | 150 | 0.00085 |
| **S469** | 75 | 20 | 60 | 15 | 60 | 70 | 100 | 70 | 120 | 0.00076 |

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|---|---|---|---|---|---|---|---|---|---|
| **S470** | 75 | 20 | 60 | 15 | 60 | 70 | 100 | 70 | 150 | 0.00113 |
| **S471** | 75 | 20 | 60 | 15 | 60 | 70 | 100 | 80 | 120 | 0.00019 |
| **S472** | 75 | 20 | 60 | 15 | 60 | 70 | 100 | 80 | 150 | 0.00028 |
| **S473** | 75 | 20 | 60 | 15 | 60 | 80 | 90 | 70 | 120 | 0.00529 |
| **S474** | 75 | 20 | 60 | 15 | 60 | 80 | 90 | 70 | 150 | 0.00794 |
| **S475** | 75 | 20 | 60 | 15 | 60 | 80 | 90 | 80 | 120 | 0.00132 |
| **S476** | 75 | 20 | 60 | 15 | 60 | 80 | 90 | 80 | 150 | 0.00198 |
| **S477** | 75 | 20 | 60 | 15 | 60 | 80 | 100 | 70 | 120 | 0.00176 |
| **S478** | 75 | 20 | 60 | 15 | 60 | 80 | 100 | 70 | 150 | 0.00265 |
| **S479** | 75 | 20 | 60 | 15 | 60 | 80 | 100 | 80 | 120 | 0.00044 |
| **S480** | 75 | 20 | 60 | 15 | 60 | 80 | 100 | 80 | 150 | 0.00066 |
| **S481** | 75 | 20 | 60 | 25 | 50 | 70 | 90 | 70 | 120 | 0.00076 |
| **S482** | 75 | 20 | 60 | 25 | 50 | 70 | 90 | 70 | 150 | 0.00113 |
| **S483** | 75 | 20 | 60 | 25 | 50 | 70 | 90 | 80 | 120 | 0.00019 |
| **S484** | 75 | 20 | 60 | 25 | 50 | 70 | 90 | 80 | 150 | 0.00028 |
| **S485** | 75 | 20 | 60 | 25 | 50 | 70 | 100 | 70 | 120 | 0.00025 |
| **S486** | 75 | 20 | 60 | 25 | 50 | 70 | 100 | 70 | 150 | 0.00038 |
| **S487** | 75 | 20 | 60 | 25 | 50 | 70 | 100 | 80 | 120 | 0.00006 |
| **S488** | 75 | 20 | 60 | 25 | 50 | 70 | 100 | 80 | 150 | 0.00009 |
| **S489** | 75 | 20 | 60 | 25 | 50 | 80 | 90 | 70 | 120 | 0.00176 |
| **S490** | 75 | 20 | 60 | 25 | 50 | 80 | 90 | 70 | 150 | 0.00265 |
| **S491** | 75 | 20 | 60 | 25 | 50 | 80 | 90 | 80 | 120 | 0.00044 |
| **S492** | 75 | 20 | 60 | 25 | 50 | 80 | 90 | 80 | 150 | 0.00066 |
| **S493** | 75 | 20 | 60 | 25 | 50 | 80 | 100 | 70 | 120 | 0.00059 |
| **S494** | 75 | 20 | 60 | 25 | 50 | 80 | 100 | 70 | 150 | 0.00088 |
| **S495** | 75 | 20 | 60 | 25 | 50 | 80 | 100 | 80 | 120 | 0.00015 |
| **S496** | 75 | 20 | 60 | 25 | 50 | 80 | 100 | 80 | 150 | 0.00022 |
| **S497** | 75 | 20 | 60 | 25 | 60 | 70 | 90 | 70 | 120 | 0.00025 |
| **S498** | 75 | 20 | 60 | 25 | 60 | 70 | 90 | 70 | 150 | 0.00038 |
| **S499** | 75 | 20 | 60 | 25 | 60 | 70 | 90 | 80 | 120 | 0.00006 |
| **S500** | 75 | 20 | 60 | 25 | 60 | 70 | 90 | 80 | 150 | 0.00009 |
| **S501** | 75 | 20 | 60 | 25 | 60 | 70 | 100 | 70 | 120 | 0.00008 |
| **S502** | 75 | 20 | 60 | 25 | 60 | 70 | 100 | 70 | 150 | 0.00013 |
| **S503** | 75 | 20 | 60 | 25 | 60 | 70 | 100 | 80 | 120 | 0.00002 |
| **S504** | 75 | 20 | 60 | 25 | 60 | 70 | 100 | 80 | 150 | 0.00003 |
| **S505** | 75 | 20 | 60 | 25 | 60 | 80 | 90 | 70 | 120 | 0.00059 |
| **S506** | 75 | 20 | 60 | 25 | 60 | 80 | 90 | 70 | 150 | 0.00088 |
| **S507** | 75 | 20 | 60 | 25 | 60 | 80 | 90 | 80 | 120 | 0.00015 |
| **S508** | 75 | 20 | 60 | 25 | 60 | 80 | 90 | 80 | 150 | 0.00022 |
| **S509** | 75 | 20 | 60 | 25 | 60 | 80 | 100 | 70 | 120 | 0.00020 |

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|---|---|---|---|---|---|---|---|---|---|---|
| **S510** | 75 | 20 | 60 | 25 | 60 | 80 | 100 | 70 | 150 | 0.00029 |
| **S511** | 75 | 20 | 60 | 25 | 60 | 80 | 100 | 80 | 120 | 0.00005 |
| **S512** | 75 | 20 | 60 | 25 | 60 | 80 | 100 | 80 | 150 | 0.00007 |

## Appendix B

# Cost Allocation Model Results for Numerical Example

Table **B-1**: Cost Model Output for DMU A

| | DMUA | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Scenario | x1* | x2* | lambdaA | lambdaB | lambdaC | O.F. | Current | Eff |
| S1 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S2 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S3 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S4 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S5 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S6 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S7 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S8 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S9 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S10 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S11 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S12 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S13 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S14 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S15 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S16 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S17 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S18 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S19 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S20 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S21 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S22 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S23 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S24 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S25 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S26 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S27 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S28 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S29 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S30 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S31 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S32 | 50 | 15 | 1 | 0 | 0 | 1300 | 1300 | 1 |
| S33 | 50 | 25 | 1 | 0 | 0 | 2000 | 2000 | 1 |
| S34 | 50 | 25 | 1 | 0 | 0 | 2000 | 2000 | 1 |
| S35 | 50 | 25 | 1 | 0 | 0 | 2000 | 2000 | 1 |
| S36 | 50 | 25 | 1 | 0 | 0 | 2000 | 2000 | 1 |
| S37 | 50 | 25 | 1 | 0 | 0 | 2000 | 2000 | 1 |
| S38 | 50 | 25 | 1 | 0 | 0 | 2000 | 2000 | 1 |
| S39 | 50 | 25 | 1 | 0 | 0 | 2000 | 2000 | 1 |
| S40 | 50 | 25 | 1 | 0 | 0 | 2000 | 2000 | 1 |
| S41 | 50 | 25 | 1 | 0 | 0 | 2000 | 2000 | 1 |
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| S257 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
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| S389 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S390 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S391 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S392 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S393 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S394 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S395 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S396 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S397 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S398 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S399 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S400 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S401 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S402 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S403 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S404 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S405 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S406 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S407 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S408 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S409 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S410 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S411 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S412 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S413 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S414 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S415 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S416 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S417 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S418 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S419 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S420 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S421 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S422 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S423 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S424 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S425 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S426 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S427 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S428 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S429 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S430 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S431 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S432 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S433 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S434 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S435 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S436 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S437 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S438 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S439 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S440 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S441 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S442 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S443 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S444 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S445 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S446 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S447 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S448 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S449 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S450 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S451 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S452 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S453 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S454 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S455 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S456 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S457 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S458 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S459 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S460 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S461 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S462 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S463 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S464 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S465 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S466 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S467 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S468 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S469 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S470 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S471 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S472 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S473 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S474 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S475 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S476 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S477 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S478 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S479 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S480 | 75 | 15 | 1 | 0 | 0 | 1425 | 1425 | 1 |
| S481 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S482 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S483 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S484 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S485 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S486 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S487 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S488 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S489 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S490 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S491 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S492 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S493 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S494 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S495 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S496 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S497 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S498 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S499 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S500 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S501 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S502 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S503 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S504 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S505 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S506 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S507 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S508 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S509 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S510 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S511 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |
| S512 | 75 | 25 | 1 | 0 | 0 | 2125 | 2125 | 1 |

Table **B-2**: Cost Model Output for DMU B

| | DMUB | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Scenario | x1* | x2* | lambdaA | lambdaB | lambdaC | O.F. | Current | Eff |
| S1 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3100 | 0.3513 |
| S2 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3100 | 0.3513 |
| S3 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3100 | 0.4014 |
| S4 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3100 | 0.4014 |
| S5 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3100 | 0.3161 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S6 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3100 | 0.3161 |
| S7 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3100 | 0.3613 |
| S8 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3100 | 0.3613 |
| S9 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3100 | 0.3513 |
| S10 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3100 | 0.3513 |
| S11 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3100 | 0.4014 |
| S12 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3100 | 0.4014 |
| S13 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3100 | 0.3161 |
| S14 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3100 | 0.3161 |
| S15 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3100 | 0.3613 |
| S16 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3100 | 0.3613 |
| S17 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3700 | 0.2943 |
| S18 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3700 | 0.2943 |
| S19 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3700 | 0.3363 |
| S20 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3700 | 0.3363 |
| S21 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3700 | 0.2649 |
| S22 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3700 | 0.2649 |
| S23 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3700 | 0.3027 |
| S24 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3700 | 0.3027 |
| S25 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3700 | 0.2943 |
| S26 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3700 | 0.2943 |
| S27 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3700 | 0.3363 |
| S28 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3700 | 0.3363 |
| S29 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3700 | 0.2649 |
| S30 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3700 | 0.2649 |
| S31 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3700 | 0.3027 |
| S32 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3700 | 0.3027 |
| S33 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3100 | 0.5018 |
| S34 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3100 | 0.5018 |
| S35 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3100 | 0.5735 |
| S36 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3100 | 0.5735 |
| S37 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3100 | 0.4516 |
| S38 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3100 | 0.4516 |
| S39 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3100 | 0.5161 |
| S40 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3100 | 0.5161 |
| S41 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3100 | 0.5018 |
| S42 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3100 | 0.5018 |
| S43 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3100 | 0.5735 |
| S44 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3100 | 0.5735 |
| S45 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3100 | 0.4516 |
| S46 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3100 | 0.4516 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S47 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3100 | 0.5161 |
| S48 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3100 | 0.5161 |
| S49 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3700 | 0.4204 |
| S50 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3700 | 0.4204 |
| S51 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3700 | 0.4805 |
| S52 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3700 | 0.4805 |
| S53 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3700 | 0.3784 |
| S54 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3700 | 0.3784 |
| S55 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3700 | 0.4324 |
| S56 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3700 | 0.4324 |
| S57 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3700 | 0.4204 |
| S58 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3700 | 0.4204 |
| S59 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3700 | 0.4805 |
| S60 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3700 | 0.4805 |
| S61 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3700 | 0.3784 |
| S62 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3700 | 0.3784 |
| S63 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3700 | 0.4324 |
| S64 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3700 | 0.4324 |
| S65 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3100 | 0.3513 |
| S66 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3100 | 0.3513 |
| S67 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3100 | 0.4014 |
| S68 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3100 | 0.4014 |
| S69 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3100 | 0.3161 |
| S70 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3100 | 0.3161 |
| S71 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3100 | 0.3613 |
| S72 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3100 | 0.3613 |
| S73 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3100 | 0.3513 |
| S74 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3100 | 0.3513 |
| S75 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3100 | 0.4014 |
| S76 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3100 | 0.4014 |
| S77 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3100 | 0.3161 |
| S78 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3100 | 0.3161 |
| S79 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3100 | 0.3613 |
| S80 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3100 | 0.3613 |
| S81 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3700 | 0.2943 |
| S82 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3700 | 0.2943 |
| S83 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3700 | 0.3363 |
| S84 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3700 | 0.3363 |
| S85 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3700 | 0.2649 |
| S86 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3700 | 0.2649 |
| S87 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3700 | 0.3027 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S88 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3700 | 0.3027 |
| S89 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3700 | 0.2943 |
| S90 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3700 | 0.2943 |
| S91 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3700 | 0.3363 |
| S92 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3700 | 0.3363 |
| S93 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3700 | 0.2649 |
| S94 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3700 | 0.2649 |
| S95 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3700 | 0.3027 |
| S96 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3700 | 0.3027 |
| S97 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3100 | 0.5018 |
| S98 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3100 | 0.5018 |
| S99 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3100 | 0.5735 |
| S100 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3100 | 0.5735 |
| S101 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3100 | 0.4516 |
| S102 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3100 | 0.4516 |
| S103 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3100 | 0.5161 |
| S104 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3100 | 0.5161 |
| S105 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3100 | 0.5018 |
| S106 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3100 | 0.5018 |
| S107 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3100 | 0.5735 |
| S108 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3100 | 0.5735 |
| S109 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3100 | 0.4516 |
| S110 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3100 | 0.4516 |
| S111 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3100 | 0.5161 |
| S112 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3100 | 0.5161 |
| S113 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3700 | 0.4204 |
| S114 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3700 | 0.4204 |
| S115 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3700 | 0.4805 |
| S116 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3700 | 0.4805 |
| S117 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3700 | 0.3784 |
| S118 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3700 | 0.3784 |
| S119 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3700 | 0.4324 |
| S120 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3700 | 0.4324 |
| S121 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3700 | 0.4204 |
| S122 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3700 | 0.4204 |
| S123 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3700 | 0.4805 |
| S124 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3700 | 0.4805 |
| S125 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3700 | 0.3784 |
| S126 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3700 | 0.3784 |
| S127 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3700 | 0.4324 |
| S128 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3700 | 0.4324 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S129 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3200 | 0.3403 |
| S130 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3200 | 0.3403 |
| S131 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3200 | 0.3889 |
| S132 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3200 | 0.3889 |
| S133 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3200 | 0.3063 |
| S134 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3200 | 0.3063 |
| S135 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3200 | 0.3500 |
| S136 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3200 | 0.3500 |
| S137 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3200 | 0.3403 |
| S138 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3200 | 0.3403 |
| S139 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3200 | 0.3889 |
| S140 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3200 | 0.3889 |
| S141 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3200 | 0.3063 |
| S142 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3200 | 0.3063 |
| S143 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3200 | 0.3500 |
| S144 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3200 | 0.3500 |
| S145 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3800 | 0.2865 |
| S146 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3800 | 0.2865 |
| S147 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3800 | 0.3275 |
| S148 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3800 | 0.3275 |
| S149 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3800 | 0.2579 |
| S150 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3800 | 0.2579 |
| S151 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3800 | 0.2947 |
| S152 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3800 | 0.2947 |
| S153 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3800 | 0.2865 |
| S154 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3800 | 0.2865 |
| S155 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3800 | 0.3275 |
| S156 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3800 | 0.3275 |
| S157 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3800 | 0.2579 |
| S158 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3800 | 0.2579 |
| S159 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3800 | 0.2947 |
| S160 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3800 | 0.2947 |
| S161 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3200 | 0.4861 |
| S162 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3200 | 0.4861 |
| S163 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3200 | 0.5556 |
| S164 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3200 | 0.5556 |
| S165 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3200 | 0.4375 |
| S166 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3200 | 0.4375 |
| S167 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3200 | 0.5000 |
| S168 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3200 | 0.5000 |
| S169 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3200 | 0.4861 |

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|---|---|---|---|---|---|---|---|---|
| S170 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3200 | 0.4861 |
| S171 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3200 | 0.5556 |
| S172 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3200 | 0.5556 |
| S173 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3200 | 0.4375 |
| S174 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3200 | 0.4375 |
| S175 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3200 | 0.5000 |
| S176 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3200 | 0.5000 |
| S177 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3800 | 0.4094 |
| S178 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3800 | 0.4094 |
| S179 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3800 | 0.4678 |
| S180 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3800 | 0.4678 |
| S181 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3800 | 0.3684 |
| S182 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3800 | 0.3684 |
| S183 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3800 | 0.4211 |
| S184 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3800 | 0.4211 |
| S185 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3800 | 0.4094 |
| S186 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3800 | 0.4094 |
| S187 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3800 | 0.4678 |
| S188 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3800 | 0.4678 |
| S189 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3800 | 0.3684 |
| S190 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3800 | 0.3684 |
| S191 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3800 | 0.4211 |
| S192 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3800 | 0.4211 |
| S193 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3200 | 0.3403 |
| S194 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3200 | 0.3403 |
| S195 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3200 | 0.3889 |
| S196 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3200 | 0.3889 |
| S197 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3200 | 0.3063 |
| S198 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3200 | 0.3063 |
| S199 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3200 | 0.3500 |
| S200 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3200 | 0.3500 |
| S201 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3200 | 0.3403 |
| S202 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3200 | 0.3403 |
| S203 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3200 | 0.3889 |
| S204 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3200 | 0.3889 |
| S205 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3200 | 0.3063 |
| S206 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3200 | 0.3063 |
| S207 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3200 | 0.3500 |
| S208 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3200 | 0.3500 |
| S209 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3800 | 0.2865 |
| S210 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3800 | 0.2865 |

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|---|---|---|---|---|---|---|---|---|
| S211 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3800 | 0.3275 |
| S212 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3800 | 0.3275 |
| S213 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3800 | 0.2579 |
| S214 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3800 | 0.2579 |
| S215 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3800 | 0.2947 |
| S216 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3800 | 0.2947 |
| S217 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3800 | 0.2865 |
| S218 | 38.889 | 11.667 | 0.778 | 0 | 0 | 1088.89 | 3800 | 0.2865 |
| S219 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3800 | 0.3275 |
| S220 | 44.444 | 13.333 | 0.889 | 0 | 0 | 1244.44 | 3800 | 0.3275 |
| S221 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3800 | 0.2579 |
| S222 | 35.000 | 10.500 | 0.700 | 0 | 0 | 980.00 | 3800 | 0.2579 |
| S223 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3800 | 0.2947 |
| S224 | 40.000 | 12.000 | 0.800 | 0 | 0 | 1120.00 | 3800 | 0.2947 |
| S225 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3200 | 0.4861 |
| S226 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3200 | 0.4861 |
| S227 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3200 | 0.5556 |
| S228 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3200 | 0.5556 |
| S229 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3200 | 0.4375 |
| S230 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3200 | 0.4375 |
| S231 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3200 | 0.5000 |
| S232 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3200 | 0.5000 |
| S233 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3200 | 0.4861 |
| S234 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3200 | 0.4861 |
| S235 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3200 | 0.5556 |
| S236 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3200 | 0.5556 |
| S237 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3200 | 0.4375 |
| S238 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3200 | 0.4375 |
| S239 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3200 | 0.5000 |
| S240 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3200 | 0.5000 |
| S241 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3800 | 0.4094 |
| S242 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3800 | 0.4094 |
| S243 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3800 | 0.4678 |
| S244 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3800 | 0.4678 |
| S245 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3800 | 0.3684 |
| S246 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3800 | 0.3684 |
| S247 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3800 | 0.4211 |
| S248 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3800 | 0.4211 |
| S249 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3800 | 0.4094 |
| S250 | 38.889 | 19.444 | 0.778 | 0 | 0 | 1555.56 | 3800 | 0.4094 |
| S251 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3800 | 0.4678 |

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|---|---|---|---|---|---|---|---|---|
| S252 | 44.444 | 22.222 | 0.889 | 0 | 0 | 1777.78 | 3800 | 0.4678 |
| S253 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3800 | 0.3684 |
| S254 | 35.000 | 17.500 | 0.700 | 0 | 0 | 1400.00 | 3800 | 0.3684 |
| S255 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3800 | 0.4211 |
| S256 | 40.000 | 20.000 | 0.800 | 0 | 0 | 1600.00 | 3800 | 0.4211 |
| S257 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3100 | 0.4140 |
| S258 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3100 | 0.4140 |
| S259 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3100 | 0.4731 |
| S260 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3100 | 0.4731 |
| S261 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3100 | 0.3726 |
| S262 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3100 | 0.3726 |
| S263 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3100 | 0.4258 |
| S264 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3100 | 0.4258 |
| S265 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3100 | 0.4140 |
| S266 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3100 | 0.4140 |
| S267 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3100 | 0.4731 |
| S268 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3100 | 0.4731 |
| S269 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3100 | 0.3726 |
| S270 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3100 | 0.3726 |
| S271 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3100 | 0.4258 |
| S272 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3100 | 0.4258 |
| S273 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3700 | 0.3468 |
| S274 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3700 | 0.3468 |
| S275 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3700 | 0.3964 |
| S276 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3700 | 0.3964 |
| S277 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3700 | 0.3122 |
| S278 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3700 | 0.3122 |
| S279 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3700 | 0.3568 |
| S280 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3700 | 0.3568 |
| S281 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3700 | 0.3468 |
| S282 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3700 | 0.3468 |
| S283 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3700 | 0.3964 |
| S284 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3700 | 0.3964 |
| S285 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3700 | 0.3122 |
| S286 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3700 | 0.3122 |
| S287 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3700 | 0.3568 |
| S288 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3700 | 0.3568 |
| S289 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3100 | 0.5645 |
| S290 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3100 | 0.5645 |
| S291 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3100 | 0.6452 |
| S292 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3100 | 0.6452 |

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|---|---|---|---|---|---|---|---|---|
| S293 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3100 | 0.5081 |
| S294 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3100 | 0.5081 |
| S295 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3100 | 0.5806 |
| S296 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3100 | 0.5806 |
| S297 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3100 | 0.5645 |
| S298 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3100 | 0.5645 |
| S299 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3100 | 0.6452 |
| S300 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3100 | 0.6452 |
| S301 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3100 | 0.5081 |
| S302 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3100 | 0.5081 |
| S303 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3100 | 0.5806 |
| S304 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3100 | 0.5806 |
| S305 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3700 | 0.4730 |
| S306 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3700 | 0.4730 |
| S307 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3700 | 0.5405 |
| S308 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3700 | 0.5405 |
| S309 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3700 | 0.4257 |
| S310 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3700 | 0.4257 |
| S311 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3700 | 0.4865 |
| S312 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3700 | 0.4865 |
| S313 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3700 | 0.4730 |
| S314 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3700 | 0.4730 |
| S315 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3700 | 0.5405 |
| S316 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3700 | 0.5405 |
| S317 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3700 | 0.4257 |
| S318 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3700 | 0.4257 |
| S319 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3700 | 0.4865 |
| S320 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3700 | 0.4865 |
| S321 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3100 | 0.4140 |
| S322 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3100 | 0.4140 |
| S323 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3100 | 0.4731 |
| S324 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3100 | 0.4731 |
| S325 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3100 | 0.3726 |
| S326 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3100 | 0.3726 |
| S327 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3100 | 0.4258 |
| S328 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3100 | 0.4258 |
| S329 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3100 | 0.4140 |
| S330 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3100 | 0.4140 |
| S331 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3100 | 0.4731 |
| S332 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3100 | 0.4731 |
| S333 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3100 | 0.3726 |

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|---|---|---|---|---|---|---|---|---|
| S334 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3100 | 0.3726 |
| S335 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3100 | 0.4258 |
| S336 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3100 | 0.4258 |
| S337 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3700 | 0.3468 |
| S338 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3700 | 0.3468 |
| S339 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3700 | 0.3964 |
| S340 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3700 | 0.3964 |
| S341 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3700 | 0.3122 |
| S342 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3700 | 0.3122 |
| S343 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3700 | 0.3568 |
| S344 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3700 | 0.3568 |
| S345 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3700 | 0.3468 |
| S346 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3700 | 0.3468 |
| S347 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3700 | 0.3964 |
| S348 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3700 | 0.3964 |
| S349 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3700 | 0.3122 |
| S350 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3700 | 0.3122 |
| S351 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3700 | 0.3568 |
| S352 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3700 | 0.3568 |
| S353 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3100 | 0.5645 |
| S354 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3100 | 0.5645 |
| S355 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3100 | 0.6452 |
| S356 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3100 | 0.6452 |
| S357 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3100 | 0.5081 |
| S358 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3100 | 0.5081 |
| S359 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3100 | 0.5806 |
| S360 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3100 | 0.5806 |
| S361 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3100 | 0.5645 |
| S362 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3100 | 0.5645 |
| S363 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3100 | 0.6452 |
| S364 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3100 | 0.6452 |
| S365 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3100 | 0.5081 |
| S366 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3100 | 0.5081 |
| S367 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3100 | 0.5806 |
| S368 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3100 | 0.5806 |
| S369 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3700 | 0.4730 |
| S370 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3700 | 0.4730 |
| S371 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3700 | 0.5405 |
| S372 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3700 | 0.5405 |
| S373 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3700 | 0.4257 |
| S374 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3700 | 0.4257 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S375 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3700 | 0.4865 |
| S376 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3700 | 0.4865 |
| S377 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3700 | 0.4730 |
| S378 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3700 | 0.4730 |
| S379 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3700 | 0.5405 |
| S380 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3700 | 0.5405 |
| S381 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3700 | 0.4257 |
| S382 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3700 | 0.4257 |
| S383 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3700 | 0.4865 |
| S384 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3700 | 0.4865 |
| S385 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3200 | 0.4010 |
| S386 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3200 | 0.4010 |
| S387 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3200 | 0.4583 |
| S388 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3200 | 0.4583 |
| S389 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3200 | 0.3609 |
| S390 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3200 | 0.3609 |
| S391 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3200 | 0.4125 |
| S392 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3200 | 0.4125 |
| S393 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3200 | 0.4010 |
| S394 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3200 | 0.4010 |
| S395 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3200 | 0.4583 |
| S396 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3200 | 0.4583 |
| S397 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3200 | 0.3609 |
| S398 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3200 | 0.3609 |
| S399 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3200 | 0.4125 |
| S400 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3200 | 0.4125 |
| S401 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3800 | 0.3377 |
| S402 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3800 | 0.3377 |
| S403 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3800 | 0.3860 |
| S404 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3800 | 0.3860 |
| S405 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3800 | 0.3039 |
| S406 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3800 | 0.3039 |
| S407 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3800 | 0.3474 |
| S408 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3800 | 0.3474 |
| S409 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3800 | 0.3377 |
| S410 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3800 | 0.3377 |
| S411 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3800 | 0.3860 |
| S412 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3800 | 0.3860 |
| S413 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3800 | 0.3039 |
| S414 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3800 | 0.3039 |
| S415 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3800 | 0.3474 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S416 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3800 | 0.3474 |
| S417 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3200 | 0.5469 |
| S418 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3200 | 0.5469 |
| S419 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3200 | 0.6250 |
| S420 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3200 | 0.6250 |
| S421 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3200 | 0.4922 |
| S422 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3200 | 0.4922 |
| S423 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3200 | 0.5625 |
| S424 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3200 | 0.5625 |
| S425 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3200 | 0.5469 |
| S426 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3200 | 0.5469 |
| S427 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3200 | 0.6250 |
| S428 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3200 | 0.6250 |
| S429 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3200 | 0.4922 |
| S430 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3200 | 0.4922 |
| S431 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3200 | 0.5625 |
| S432 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3200 | 0.5625 |
| S433 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3800 | 0.4605 |
| S434 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3800 | 0.4605 |
| S435 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3800 | 0.5263 |
| S436 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3800 | 0.5263 |
| S437 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3800 | 0.4145 |
| S438 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3800 | 0.4145 |
| S439 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3800 | 0.4737 |
| S440 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3800 | 0.4737 |
| S441 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3800 | 0.4605 |
| S442 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3800 | 0.4605 |
| S443 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3800 | 0.5263 |
| S444 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3800 | 0.5263 |
| S445 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3800 | 0.4145 |
| S446 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3800 | 0.4145 |
| S447 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3800 | 0.4737 |
| S448 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3800 | 0.4737 |
| S449 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3200 | 0.4010 |
| S450 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3200 | 0.4010 |
| S451 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3200 | 0.4583 |
| S452 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3200 | 0.4583 |
| S453 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3200 | 0.3609 |
| S454 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3200 | 0.3609 |
| S455 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3200 | 0.4125 |
| S456 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3200 | 0.4125 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S457 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3200 | 0.4010 |
| S458 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3200 | 0.4010 |
| S459 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3200 | 0.4583 |
| S460 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3200 | 0.4583 |
| S461 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3200 | 0.3609 |
| S462 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3200 | 0.3609 |
| S463 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3200 | 0.4125 |
| S464 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3200 | 0.4125 |
| S465 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3800 | 0.3377 |
| S466 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3800 | 0.3377 |
| S467 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3800 | 0.3860 |
| S468 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3800 | 0.3860 |
| S469 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3800 | 0.3039 |
| S470 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3800 | 0.3039 |
| S471 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3800 | 0.3474 |
| S472 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3800 | 0.3474 |
| S473 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3800 | 0.3377 |
| S474 | 58.333 | 11.667 | 0.778 | 0 | 0 | 1283.33 | 3800 | 0.3377 |
| S475 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3800 | 0.3860 |
| S476 | 66.667 | 13.333 | 0.889 | 0 | 0 | 1466.67 | 3800 | 0.3860 |
| S477 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3800 | 0.3039 |
| S478 | 52.500 | 10.500 | 0.700 | 0 | 0 | 1155.00 | 3800 | 0.3039 |
| S479 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3800 | 0.3474 |
| S480 | 60.000 | 12.000 | 0.800 | 0 | 0 | 1320.00 | 3800 | 0.3474 |
| S481 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3200 | 0.5469 |
| S482 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3200 | 0.5469 |
| S483 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3200 | 0.6250 |
| S484 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3200 | 0.6250 |
| S485 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3200 | 0.4922 |
| S486 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3200 | 0.4922 |
| S487 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3200 | 0.5625 |
| S488 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3200 | 0.5625 |
| S489 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3200 | 0.5469 |
| S490 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3200 | 0.5469 |
| S491 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3200 | 0.6250 |
| S492 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3200 | 0.6250 |
| S493 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3200 | 0.4922 |
| S494 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3200 | 0.4922 |
| S495 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3200 | 0.5625 |
| S496 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3200 | 0.5625 |
| S497 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3800 | 0.4605 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S498 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3800 | 0.4605 |
| S499 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3800 | 0.5263 |
| S500 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3800 | 0.5263 |
| S501 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3800 | 0.4145 |
| S502 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3800 | 0.4145 |
| S503 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3800 | 0.4737 |
| S504 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3800 | 0.4737 |
| S505 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3800 | 0.4605 |
| S506 | 58.333 | 19.444 | 0.778 | 0 | 0 | 1750.00 | 3800 | 0.4605 |
| S507 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3800 | 0.5263 |
| S508 | 66.667 | 22.222 | 0.889 | 0 | 0 | 2000.00 | 3800 | 0.5263 |
| S509 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3800 | 0.4145 |
| S510 | 52.500 | 17.500 | 0.700 | 0 | 0 | 1575.00 | 3800 | 0.4145 |
| S511 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3800 | 0.4737 |
| S512 | 60.000 | 20.000 | 0.800 | 0 | 0 | 1800.00 | 3800 | 0.4737 |

Table **B-3**: Cost Model Output for DMU C

| | DMUC | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Scenario | x1* | x2* | lambdaA | lambdaB | lambdaC | O.F. | Current | Eff |
| S1 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4100 | 0.4878 |
| S2 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4100 | 0.6098 |
| S3 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4100 | 0.4878 |
| S4 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4100 | 0.6098 |
| S5 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4100 | 0.4390 |
| S6 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4100 | 0.5488 |
| S7 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4100 | 0.4390 |
| S8 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4100 | 0.5488 |
| S9 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4600 | 0.4348 |
| S10 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4600 | 0.5435 |
| S11 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4600 | 0.4348 |
| S12 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4600 | 0.5435 |
| S13 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4600 | 0.3913 |
| S14 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4600 | 0.4891 |
| S15 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4600 | 0.3913 |
| S16 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4600 | 0.4891 |
| S17 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4100 | 0.4878 |
| S18 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4100 | 0.6098 |
| S19 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4100 | 0.4878 |
| S20 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4100 | 0.6098 |
| S21 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4100 | 0.4390 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S22 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4100 | 0.5488 |
| S23 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4100 | 0.4390 |
| S24 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4100 | 0.5488 |
| S25 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4600 | 0.4348 |
| S26 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4600 | 0.5435 |
| S27 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4600 | 0.4348 |
| S28 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4600 | 0.5435 |
| S29 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4600 | 0.3913 |
| S30 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4600 | 0.4891 |
| S31 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4600 | 0.3913 |
| S32 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4600 | 0.4891 |
| S33 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4100 | 0.6504 |
| S34 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4100 | 0.8130 |
| S35 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4100 | 0.6504 |
| S36 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4100 | 0.8130 |
| S37 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4100 | 0.5854 |
| S38 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4100 | 0.7317 |
| S39 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4100 | 0.5854 |
| S40 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4100 | 0.7317 |
| S41 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4600 | 0.5797 |
| S42 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4600 | 0.7246 |
| S43 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4600 | 0.5797 |
| S44 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4600 | 0.7246 |
| S45 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4600 | 0.5217 |
| S46 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4600 | 0.6522 |
| S47 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4600 | 0.5217 |
| S48 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4600 | 0.6522 |
| S49 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4100 | 0.6504 |
| S50 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4100 | 0.8130 |
| S51 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4100 | 0.6504 |
| S52 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4100 | 0.8130 |
| S53 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4100 | 0.5854 |
| S54 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4100 | 0.7317 |
| S55 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4100 | 0.5854 |
| S56 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4100 | 0.7317 |
| S57 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4600 | 0.5797 |
| S58 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4600 | 0.7246 |
| S59 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4600 | 0.5797 |
| S60 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4600 | 0.7246 |
| S61 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4600 | 0.5217 |
| S62 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4600 | 0.6522 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S63 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4600 | 0.5217 |
| S64 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4600 | 0.6522 |
| S65 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4400 | 0.4545 |
| S66 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4400 | 0.5682 |
| S67 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4400 | 0.4545 |
| S68 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4400 | 0.5682 |
| S69 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4400 | 0.4091 |
| S70 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4400 | 0.5114 |
| S71 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4400 | 0.4091 |
| S72 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4400 | 0.5114 |
| S73 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4900 | 0.4082 |
| S74 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4900 | 0.5102 |
| S75 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4900 | 0.4082 |
| S76 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4900 | 0.5102 |
| S77 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4900 | 0.3673 |
| S78 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4900 | 0.4592 |
| S79 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4900 | 0.3673 |
| S80 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4900 | 0.4592 |
| S81 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4400 | 0.4545 |
| S82 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4400 | 0.5682 |
| S83 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4400 | 0.4545 |
| S84 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4400 | 0.5682 |
| S85 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4400 | 0.4091 |
| S86 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4400 | 0.5114 |
| S87 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4400 | 0.4091 |
| S88 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4400 | 0.5114 |
| S89 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4900 | 0.4082 |
| S90 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4900 | 0.5102 |
| S91 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4900 | 0.4082 |
| S92 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4900 | 0.5102 |
| S93 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4900 | 0.3673 |
| S94 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4900 | 0.4592 |
| S95 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4900 | 0.3673 |
| S96 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4900 | 0.4592 |
| S97 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4400 | 0.6061 |
| S98 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4400 | 0.7576 |
| S99 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4400 | 0.6061 |
| S100 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4400 | 0.7576 |
| S101 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4400 | 0.5455 |
| S102 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4400 | 0.6818 |
| S103 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4400 | 0.5455 |

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|---|---|---|---|---|---|---|---|---|
| S104 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4400 | 0.6818 |
| S105 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4900 | 0.5442 |
| S106 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4900 | 0.6803 |
| S107 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4900 | 0.5442 |
| S108 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4900 | 0.6803 |
| S109 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4900 | 0.4898 |
| S110 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4900 | 0.6122 |
| S111 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4900 | 0.4898 |
| S112 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4900 | 0.6122 |
| S113 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4400 | 0.6061 |
| S114 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4400 | 0.7576 |
| S115 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4400 | 0.6061 |
| S116 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4400 | 0.7576 |
| S117 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4400 | 0.5455 |
| S118 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4400 | 0.6818 |
| S119 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4400 | 0.5455 |
| S120 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4400 | 0.6818 |
| S121 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4900 | 0.5442 |
| S122 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4900 | 0.6803 |
| S123 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4900 | 0.5442 |
| S124 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4900 | 0.6803 |
| S125 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4900 | 0.4898 |
| S126 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4900 | 0.6122 |
| S127 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4900 | 0.4898 |
| S128 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4900 | 0.6122 |
| S129 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4100 | 0.4878 |
| S130 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4100 | 0.6098 |
| S131 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4100 | 0.4878 |
| S132 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4100 | 0.6098 |
| S133 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4100 | 0.4390 |
| S134 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4100 | 0.5488 |
| S135 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4100 | 0.4390 |
| S136 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4100 | 0.5488 |
| S137 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4600 | 0.4348 |
| S138 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4600 | 0.5435 |
| S139 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4600 | 0.4348 |
| S140 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4600 | 0.5435 |
| S141 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4600 | 0.3913 |
| S142 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4600 | 0.4891 |
| S143 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4600 | 0.3913 |
| S144 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4600 | 0.4891 |

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|---|---|---|---|---|---|---|---|---|
| S145 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4100 | 0.4878 |
| S146 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4100 | 0.6098 |
| S147 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4100 | 0.4878 |
| S148 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4100 | 0.6098 |
| S149 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4100 | 0.4390 |
| S150 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4100 | 0.5488 |
| S151 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4100 | 0.4390 |
| S152 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4100 | 0.5488 |
| S153 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4600 | 0.4348 |
| S154 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4600 | 0.5435 |
| S155 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4600 | 0.4348 |
| S156 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4600 | 0.5435 |
| S157 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4600 | 0.3913 |
| S158 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4600 | 0.4891 |
| S159 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4600 | 0.3913 |
| S160 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4600 | 0.4891 |
| S161 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4100 | 0.6504 |
| S162 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4100 | 0.8130 |
| S163 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4100 | 0.6504 |
| S164 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4100 | 0.8130 |
| S165 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4100 | 0.5854 |
| S166 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4100 | 0.7317 |
| S167 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4100 | 0.5854 |
| S168 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4100 | 0.7317 |
| S169 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4600 | 0.5797 |
| S170 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4600 | 0.7246 |
| S171 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4600 | 0.5797 |
| S172 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4600 | 0.7246 |
| S173 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4600 | 0.5217 |
| S174 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4600 | 0.6522 |
| S175 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4600 | 0.5217 |
| S176 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4600 | 0.6522 |
| S177 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4100 | 0.6504 |
| S178 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4100 | 0.8130 |
| S179 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4100 | 0.6504 |
| S180 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4100 | 0.8130 |
| S181 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4100 | 0.5854 |
| S182 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4100 | 0.7317 |
| S183 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4100 | 0.5854 |
| S184 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4100 | 0.7317 |
| S185 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4600 | 0.5797 |

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|---|---|---|---|---|---|---|---|---|
| S186 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4600 | 0.7246 |
| S187 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4600 | 0.5797 |
| S188 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4600 | 0.7246 |
| S189 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4600 | 0.5217 |
| S190 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4600 | 0.6522 |
| S191 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4600 | 0.5217 |
| S192 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4600 | 0.6522 |
| S193 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4400 | 0.4545 |
| S194 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4400 | 0.5682 |
| S195 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4400 | 0.4545 |
| S196 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4400 | 0.5682 |
| S197 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4400 | 0.4091 |
| S198 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4400 | 0.5114 |
| S199 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4400 | 0.4091 |
| S200 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4400 | 0.5114 |
| S201 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4900 | 0.4082 |
| S202 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4900 | 0.5102 |
| S203 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4900 | 0.4082 |
| S204 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4900 | 0.5102 |
| S205 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4900 | 0.3673 |
| S206 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4900 | 0.4592 |
| S207 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4900 | 0.3673 |
| S208 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4900 | 0.4592 |
| S209 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4400 | 0.4545 |
| S210 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4400 | 0.5682 |
| S211 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4400 | 0.4545 |
| S212 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4400 | 0.5682 |
| S213 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4400 | 0.4091 |
| S214 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4400 | 0.5114 |
| S215 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4400 | 0.4091 |
| S216 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4400 | 0.5114 |
| S217 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4900 | 0.4082 |
| S218 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4900 | 0.5102 |
| S219 | 66.667 | 20.000 | 1.33 | 0 | 0 | 2000.00 | 4900 | 0.4082 |
| S220 | 83.333 | 25.000 | 1.67 | 0 | 0 | 2500.00 | 4900 | 0.5102 |
| S221 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4900 | 0.3673 |
| S222 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4900 | 0.4592 |
| S223 | 60.000 | 18.000 | 1.20 | 0 | 0 | 1800.00 | 4900 | 0.3673 |
| S224 | 75.000 | 22.500 | 1.50 | 0 | 0 | 2250.00 | 4900 | 0.4592 |
| S225 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4400 | 0.6061 |
| S226 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4400 | 0.7576 |

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|---|---|---|---|---|---|---|---|---|
| S227 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4400 | 0.6061 |
| S228 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4400 | 0.7576 |
| S229 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4400 | 0.5455 |
| S230 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4400 | 0.6818 |
| S231 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4400 | 0.5455 |
| S232 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4400 | 0.6818 |
| S233 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4900 | 0.5442 |
| S234 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4900 | 0.6803 |
| S235 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4900 | 0.5442 |
| S236 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4900 | 0.6803 |
| S237 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4900 | 0.4898 |
| S238 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4900 | 0.6122 |
| S239 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4900 | 0.4898 |
| S240 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4900 | 0.6122 |
| S241 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4400 | 0.6061 |
| S242 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4400 | 0.7576 |
| S243 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4400 | 0.6061 |
| S244 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4400 | 0.7576 |
| S245 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4400 | 0.5455 |
| S246 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4400 | 0.6818 |
| S247 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4400 | 0.5455 |
| S248 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4400 | 0.6818 |
| S249 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4900 | 0.5442 |
| S250 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4900 | 0.6803 |
| S251 | 66.667 | 33.333 | 1.33 | 0 | 0 | 2666.67 | 4900 | 0.5442 |
| S252 | 83.333 | 41.667 | 1.67 | 0 | 0 | 3333.33 | 4900 | 0.6803 |
| S253 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4900 | 0.4898 |
| S254 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4900 | 0.6122 |
| S255 | 60.000 | 30.000 | 1.20 | 0 | 0 | 2400.00 | 4900 | 0.4898 |
| S256 | 75.000 | 37.500 | 1.50 | 0 | 0 | 3000.00 | 4900 | 0.6122 |
| S257 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4100 | 0.6098 |
| S258 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4100 | 0.7622 |
| S259 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4100 | 0.6098 |
| S260 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4100 | 0.7622 |
| S261 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4100 | 0.5488 |
| S262 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4100 | 0.6860 |
| S263 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4100 | 0.5488 |
| S264 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4100 | 0.6860 |
| S265 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4600 | 0.5435 |
| S266 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4600 | 0.6793 |
| S267 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4600 | 0.5435 |

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|---|---|---|---|---|---|---|---|---|
| S268 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4600 | 0.6793 |
| S269 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4600 | 0.4891 |
| S270 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4600 | 0.6114 |
| S271 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4600 | 0.4891 |
| S272 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4600 | 0.6114 |
| S273 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4100 | 0.6098 |
| S274 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4100 | 0.7622 |
| S275 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4100 | 0.6098 |
| S276 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4100 | 0.7622 |
| S277 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4100 | 0.5488 |
| S278 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4100 | 0.6860 |
| S279 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4100 | 0.5488 |
| S280 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4100 | 0.6860 |
| S281 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4600 | 0.5435 |
| S282 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4600 | 0.6793 |
| S283 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4600 | 0.5435 |
| S284 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4600 | 0.6793 |
| S285 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4600 | 0.4891 |
| S286 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4600 | 0.6114 |
| S287 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4600 | 0.4891 |
| S288 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4600 | 0.6114 |
| S289 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4100 | 0.7724 |
| S290 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4100 | 0.9654 |
| S291 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4100 | 0.7724 |
| S292 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4100 | 0.9654 |
| S293 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4100 | 0.6951 |
| S294 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4100 | 0.8689 |
| S295 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4100 | 0.6951 |
| S296 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4100 | 0.8689 |
| S297 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4600 | 0.6884 |
| S298 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4600 | 0.8605 |
| S299 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4600 | 0.6884 |
| S300 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4600 | 0.8605 |
| S301 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4600 | 0.6196 |
| S302 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4600 | 0.7745 |
| S303 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4600 | 0.6196 |
| S304 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4600 | 0.7745 |
| S305 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4100 | 0.7724 |
| S306 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4100 | 0.9654 |
| S307 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4100 | 0.7724 |
| S308 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4100 | 0.9654 |

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|---|---|---|---|---|---|---|---|---|
| S309 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4100 | 0.6951 |
| S310 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4100 | 0.8689 |
| S311 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4100 | 0.6951 |
| S312 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4100 | 0.8689 |
| S313 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4600 | 0.6884 |
| S314 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4600 | 0.8605 |
| S315 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4600 | 0.6884 |
| S316 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4600 | 0.8605 |
| S317 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4600 | 0.6196 |
| S318 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4600 | 0.7745 |
| S319 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4600 | 0.6196 |
| S320 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4600 | 0.7745 |
| S321 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4400 | 0.5682 |
| S322 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4400 | 0.7102 |
| S323 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4400 | 0.5682 |
| S324 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4400 | 0.7102 |
| S325 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4400 | 0.5114 |
| S326 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4400 | 0.6392 |
| S327 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4400 | 0.5114 |
| S328 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4400 | 0.6392 |
| S329 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4900 | 0.5102 |
| S330 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4900 | 0.6378 |
| S331 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4900 | 0.5102 |
| S332 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4900 | 0.6378 |
| S333 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4900 | 0.4592 |
| S334 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4900 | 0.5740 |
| S335 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4900 | 0.4592 |
| S336 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4900 | 0.5740 |
| S337 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4400 | 0.5682 |
| S338 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4400 | 0.7102 |
| S339 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4400 | 0.5682 |
| S340 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4400 | 0.7102 |
| S341 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4400 | 0.5114 |
| S342 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4400 | 0.6392 |
| S343 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4400 | 0.5114 |
| S344 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4400 | 0.6392 |
| S345 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4900 | 0.5102 |
| S346 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4900 | 0.6378 |
| S347 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4900 | 0.5102 |
| S348 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4900 | 0.6378 |
| S349 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4900 | 0.4592 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S350 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4900 | 0.5740 |
| S351 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4900 | 0.4592 |
| S352 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4900 | 0.5740 |
| S353 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4400 | 0.7197 |
| S354 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4400 | 0.8996 |
| S355 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4400 | 0.7197 |
| S356 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4400 | 0.8996 |
| S357 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4400 | 0.6477 |
| S358 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4400 | 0.8097 |
| S359 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4400 | 0.6477 |
| S360 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4400 | 0.8097 |
| S361 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4900 | 0.6463 |
| S362 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4900 | 0.8078 |
| S363 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4900 | 0.6463 |
| S364 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4900 | 0.8078 |
| S365 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4900 | 0.5816 |
| S366 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4900 | 0.7270 |
| S367 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4900 | 0.5816 |
| S368 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4900 | 0.7270 |
| S369 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4400 | 0.7197 |
| S370 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4400 | 0.8996 |
| S371 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4400 | 0.7197 |
| S372 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4400 | 0.8996 |
| S373 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4400 | 0.6477 |
| S374 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4400 | 0.8097 |
| S375 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4400 | 0.6477 |
| S376 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4400 | 0.8097 |
| S377 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4900 | 0.6463 |
| S378 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4900 | 0.8078 |
| S379 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4900 | 0.6463 |
| S380 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4900 | 0.8078 |
| S381 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4900 | 0.5816 |
| S382 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4900 | 0.7270 |
| S383 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4900 | 0.5816 |
| S384 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4900 | 0.7270 |
| S385 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4100 | 0.6098 |
| S386 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4100 | 0.7622 |
| S387 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4100 | 0.6098 |
| S388 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4100 | 0.7622 |
| S389 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4100 | 0.5488 |
| S390 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4100 | 0.6860 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S391 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4100 | 0.5488 |
| S392 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4100 | 0.6860 |
| S393 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4600 | 0.5435 |
| S394 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4600 | 0.6793 |
| S395 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4600 | 0.5435 |
| S396 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4600 | 0.6793 |
| S397 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4600 | 0.4891 |
| S398 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4600 | 0.6114 |
| S399 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4600 | 0.4891 |
| S400 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4600 | 0.6114 |
| S401 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4100 | 0.6098 |
| S402 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4100 | 0.7622 |
| S403 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4100 | 0.6098 |
| S404 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4100 | 0.7622 |
| S405 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4100 | 0.5488 |
| S406 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4100 | 0.6860 |
| S407 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4100 | 0.5488 |
| S408 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4100 | 0.6860 |
| S409 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4600 | 0.5435 |
| S410 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4600 | 0.6793 |
| S411 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4600 | 0.5435 |
| S412 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4600 | 0.6793 |
| S413 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4600 | 0.4891 |
| S414 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4600 | 0.6114 |
| S415 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4600 | 0.4891 |
| S416 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4600 | 0.6114 |
| S417 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4100 | 0.7724 |
| S418 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4100 | 0.9654 |
| S419 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4100 | 0.7724 |
| S420 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4100 | 0.9654 |
| S421 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4100 | 0.6951 |
| S422 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4100 | 0.8689 |
| S423 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4100 | 0.6951 |
| S424 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4100 | 0.8689 |
| S425 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4600 | 0.6884 |
| S426 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4600 | 0.8605 |
| S427 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4600 | 0.6884 |
| S428 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4600 | 0.8605 |
| S429 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4600 | 0.6196 |
| S430 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4600 | 0.7745 |
| S431 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4600 | 0.6196 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S432 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4600 | 0.7745 |
| S433 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4100 | 0.7724 |
| S434 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4100 | 0.9654 |
| S435 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4100 | 0.7724 |
| S436 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4100 | 0.9654 |
| S437 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4100 | 0.6951 |
| S438 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4100 | 0.8689 |
| S439 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4100 | 0.6951 |
| S440 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4100 | 0.8689 |
| S441 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4600 | 0.6884 |
| S442 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4600 | 0.8605 |
| S443 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4600 | 0.6884 |
| S444 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4600 | 0.8605 |
| S445 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4600 | 0.6196 |
| S446 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4600 | 0.7745 |
| S447 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4600 | 0.6196 |
| S448 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4600 | 0.7745 |
| S449 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4400 | 0.5682 |
| S450 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4400 | 0.7102 |
| S451 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4400 | 0.5682 |
| S452 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4400 | 0.7102 |
| S453 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4400 | 0.5114 |
| S454 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4400 | 0.6392 |
| S455 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4400 | 0.5114 |
| S456 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4400 | 0.6392 |
| S457 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4900 | 0.5102 |
| S458 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4900 | 0.6378 |
| S459 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4900 | 0.5102 |
| S460 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4900 | 0.6378 |
| S461 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4900 | 0.4592 |
| S462 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4900 | 0.5740 |
| S463 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4900 | 0.4592 |
| S464 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4900 | 0.5740 |
| S465 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4400 | 0.5682 |
| S466 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4400 | 0.7102 |
| S467 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4400 | 0.5682 |
| S468 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4400 | 0.7102 |
| S469 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4400 | 0.5114 |
| S470 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4400 | 0.6392 |
| S471 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4400 | 0.5114 |
| S472 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4400 | 0.6392 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S473 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4900 | 0.5102 |
| S474 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4900 | 0.6378 |
| S475 | 100.000 | 20.000 | 1.33 | 0 | 0 | 2500.00 | 4900 | 0.5102 |
| S476 | 125.000 | 25.000 | 1.67 | 0 | 0 | 3125.00 | 4900 | 0.6378 |
| S477 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4900 | 0.4592 |
| S478 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4900 | 0.5740 |
| S479 | 90.000 | 18.000 | 1.20 | 0 | 0 | 2250.00 | 4900 | 0.4592 |
| S480 | 112.500 | 22.500 | 1.50 | 0 | 0 | 2812.50 | 4900 | 0.5740 |
| S481 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4400 | 0.7197 |
| S482 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4400 | 0.8996 |
| S483 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4400 | 0.7197 |
| S484 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4400 | 0.8996 |
| S485 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4400 | 0.6477 |
| S486 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4400 | 0.8097 |
| S487 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4400 | 0.6477 |
| S488 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4400 | 0.8097 |
| S489 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4900 | 0.6463 |
| S490 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4900 | 0.8078 |
| S491 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4900 | 0.6463 |
| S492 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4900 | 0.8078 |
| S493 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4900 | 0.5816 |
| S494 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4900 | 0.7270 |
| S495 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4900 | 0.5816 |
| S496 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4900 | 0.7270 |
| S497 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4400 | 0.7197 |
| S498 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4400 | 0.8996 |
| S499 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4400 | 0.7197 |
| S500 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4400 | 0.8996 |
| S501 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4400 | 0.6477 |
| S502 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4400 | 0.8097 |
| S503 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4400 | 0.6477 |
| S504 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4400 | 0.8097 |
| S505 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4900 | 0.6463 |
| S506 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4900 | 0.8078 |
| S507 | 100.000 | 33.333 | 1.33 | 0 | 0 | 3166.67 | 4900 | 0.6463 |
| S508 | 125.000 | 41.667 | 1.67 | 0 | 0 | 3958.33 | 4900 | 0.8078 |
| S509 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4900 | 0.5816 |
| S510 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4900 | 0.7270 |
| S511 | 90.000 | 30.000 | 1.20 | 0 | 0 | 2850.00 | 4900 | 0.5816 |
| S512 | 112.500 | 37.500 | 1.50 | 0 | 0 | 3562.50 | 4900 | 0.7270 |

## Appendix C

# Revenue Allocation Model Results for Numerical Example

Table **C-1**: Revenue Model Results for DMU A

| | DMUA | | | | | | |
|---|---|---|---|---|---|---|---|
| Scenario | y* | lambdaA | lambdaB | lambdaC | O.F. | Current | Eff |
| S1 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S2 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S3 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S4 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S5 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S6 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S7 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S8 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S9 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S10 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S11 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S12 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S13 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S14 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S15 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S16 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S17 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S18 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S19 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S20 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S21 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S22 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S23 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S24 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S25 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S26 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S27 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S28 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S29 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S30 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S31 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S32 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S33 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S34 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S35 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S36 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S37 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S38 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S39 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S40 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S41 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S42 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S43 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S44 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S45 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S46 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S47 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S48 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S49 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S50 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S51 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S52 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S53 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S54 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S55 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S56 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
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| S75 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
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|---|---|---|---|---|---|---|---|
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| S259 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
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|---|---|---|---|---|---|---|---|
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| S403 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
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| S433 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S434 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S435 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S436 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S437 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S438 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S439 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S440 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S441 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S442 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S443 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S444 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S445 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S446 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S447 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S448 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S449 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S450 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S451 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S452 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S453 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S454 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S455 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S456 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S457 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S458 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S459 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S460 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S461 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S462 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S463 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S464 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S465 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S466 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S467 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S468 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S469 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S470 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S471 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S472 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S473 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S474 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S475 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S476 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S477 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S478 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S479 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S480 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S481 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S482 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S483 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S484 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S485 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S486 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S487 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S488 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S489 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S490 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S491 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S492 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S493 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S494 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S495 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S496 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S497 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S498 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S499 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S500 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S501 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S502 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S503 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S504 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S505 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S506 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S507 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S508 | 90 | 1 | 0 | 0 | 9000 | 9000 | 1 |
| S509 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S510 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S511 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |
| S512 | 100 | 1 | 0 | 0 | 10000 | 10000 | 1 |

Table **C-2**: Revenue Model Results for DMU B

| | DMUB | | | | | | |
|---|---|---|---|---|---|---|---|
| Scenario | y* | lambdaA | lambdaB | lambdaC | O.F. | Current | Eff |
| S1 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S2 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S3 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S4 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S5 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S6 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S7 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S8 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S9 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S10 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S11 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S12 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S13 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S14 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S15 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S16 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S17 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S18 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S19 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S20 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S21 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S22 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S23 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S24 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S25 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S26 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S27 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S28 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S29 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S30 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S31 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S32 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S33 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S34 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S35 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S36 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S37 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S38 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S39 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S40 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S41 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S42 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S43 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S44 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S45 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S46 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S47 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S48 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S49 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S50 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S51 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S52 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S53 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S54 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S55 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S56 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S57 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S58 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S59 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S60 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S61 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S62 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S63 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S64 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S65 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S66 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S67 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S68 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S69 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S70 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S71 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S72 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S73 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S74 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S75 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S76 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S77 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S78 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S79 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S80 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S81 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S82 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S83 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S84 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S85 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S86 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S87 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S88 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S89 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S90 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S91 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S92 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S93 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S94 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S95 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S96 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S97 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S98 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S99 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S100 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S101 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S102 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S103 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S104 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S105 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S106 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S107 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S108 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S109 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S110 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S111 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S112 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S113 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S114 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S115 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S116 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S117 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S118 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S119 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S120 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S121 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S122 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S123 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S124 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S125 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S126 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S127 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S128 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S129 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S130 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S131 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S132 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S133 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S134 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S135 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S136 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S137 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S138 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S139 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S140 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S141 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S142 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S143 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S144 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S145 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S146 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S147 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S148 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S149 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S150 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S151 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S152 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S153 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S154 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S155 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S156 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S157 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S158 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S159 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S160 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S161 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S162 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S163 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S164 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S165 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S166 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S167 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S168 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S169 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S170 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S171 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S172 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S173 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S174 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S175 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S176 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S177 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S178 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S179 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S180 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S181 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S182 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S183 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S184 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S185 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S186 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S187 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S188 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S189 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S190 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S191 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S192 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S193 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S194 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S195 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S196 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S197 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S198 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S199 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S200 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S201 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S202 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S203 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S204 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S205 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S206 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S207 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S208 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S209 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S210 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S211 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S212 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S213 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S214 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S215 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S216 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S217 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S218 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S219 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S220 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S221 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S222 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S223 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S224 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S225 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S226 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S227 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S228 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S229 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S230 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S231 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S232 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S233 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S234 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S235 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S236 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S237 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S238 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S239 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S240 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S241 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S242 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S243 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S244 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S245 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S246 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S247 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S248 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S249 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S250 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S251 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S252 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S253 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S254 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S255 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S256 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S257 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S258 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S259 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S260 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S261 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S262 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S263 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S264 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S265 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S266 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S267 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S268 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S269 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S270 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S271 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S272 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S273 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S274 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S275 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S276 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S277 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S278 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S279 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S280 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S281 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S282 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S283 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S284 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S285 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S286 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S287 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S288 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S289 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S290 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S291 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S292 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S293 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S294 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S295 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S296 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S297 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S298 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S299 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S300 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S301 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S302 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S303 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S304 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S305 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S306 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S307 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S308 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S309 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S310 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S311 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S312 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S313 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S314 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S315 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S316 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S317 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S318 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S319 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S320 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S321 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S322 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S323 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S324 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S325 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S326 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S327 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S328 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S329 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S330 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S331 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S332 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S333 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S334 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S335 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S336 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S337 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S338 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S339 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S340 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S341 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S342 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S343 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S344 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S345 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S346 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S347 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S348 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S349 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S350 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S351 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S352 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S353 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S354 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S355 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S356 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S357 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S358 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S359 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S360 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S361 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S362 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S363 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S364 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S365 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S366 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S367 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S368 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S369 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S370 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S371 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S372 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S373 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S374 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S375 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S376 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S377 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S378 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S379 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S380 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S381 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S382 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S383 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S384 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S385 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S386 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S387 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S388 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S389 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S390 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S391 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S392 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S393 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S394 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S395 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S396 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S397 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S398 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S399 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S400 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S401 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S402 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S403 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S404 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S405 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S406 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S407 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S408 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S409 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S410 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S411 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S412 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S413 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S414 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S415 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S416 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S417 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S418 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S419 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S420 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S421 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S422 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S423 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S424 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S425 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S426 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S427 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S428 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S429 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S430 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S431 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S432 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S433 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S434 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S435 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S436 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S437 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S438 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S439 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S440 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S441 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S442 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S443 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S444 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S445 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S446 | 75 | 0 | 0 | 1 | 11250 | 10500 | 0.933333 |
| S447 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S448 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S449 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S450 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S451 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S452 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S453 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S454 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S455 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S456 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S457 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S458 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S459 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S460 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S461 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S462 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S463 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S464 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S465 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S466 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S467 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S468 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S469 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S470 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S471 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S472 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S473 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S474 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S475 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S476 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S477 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S478 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S479 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S480 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S481 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S482 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S483 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S484 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S485 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S486 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S487 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S488 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S489 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S490 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S491 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S492 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S493 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S494 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S495 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S496 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S497 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S498 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S499 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S500 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S501 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S502 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S503 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S504 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S505 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S506 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S507 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S508 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S509 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S510 | 70 | 0 | 1 | 0 | 10500 | 10500 | 1 |
| S511 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |
| S512 | 80 | 0 | 1 | 0 | 12000 | 12000 | 1 |

Table **C-3**: Revenue Model Results for DMU C

| | DMUC | | | | | | |
|---|---|---|---|---|---|---|---|
| Scenario | y* | lambdaA | lambdaB | lambdaC | O.F. | Current | Eff |
| S1 | 136.1702 | 0.5532 | 1.2340 | 0 | 27234.04 | 24000 | 0.88125 |
| S2 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S3 | 148.5106 | 0.5532 | 1.2340 | 0 | 29702.13 | 24000 | 0.808023 |
| S4 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S5 | 141.7021 | 0.5532 | 1.2340 | 0 | 28340.43 | 24000 | 0.846847 |
| S6 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S7 | 154.0426 | 0.5532 | 1.2340 | 0 | 30808.51 | 24000 | 0.779006 |
| S8 | 154.0426 | 0.5532 | 1.2340 | 0 | 30808.51 | 30000 | 0.973757 |
| S9 | 147.234 | 0.5106 | 1.4468 | 0 | 29446.81 | 24000 | 0.815029 |
| S10 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S11 | 161.7021 | 0.5106 | 1.4468 | 0 | 32340.43 | 24000 | 0.742105 |
| S12 | 161.7021 | 0.5106 | 1.4468 | 0 | 32340.43 | 30000 | 0.927632 |
| S13 | 152.3404 | 0.5106 | 1.4468 | 0 | 30468.09 | 24000 | 0.787709 |
| S14 | 152.3404 | 0.5106 | 1.4468 | 0 | 30468.09 | 30000 | 0.984637 |
| S15 | 166.8085 | 0.5106 | 1.4468 | 0 | 33361.7 | 24000 | 0.719388 |
| S16 | 166.8085 | 0.5106 | 1.4468 | 0 | 33361.7 | 30000 | 0.899235 |
| S17 | 124.9123 | 0.5965 | 1.0175 | 0 | 24982.46 | 24000 | 0.960674 |
| S18 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S19 | 135.0877 | 0.5965 | 1.0175 | 0 | 27017.54 | 24000 | 0.888312 |
| S20 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S21 | 130.8772 | 0.5965 | 1.0175 | 0 | 26175.44 | 24000 | 0.91689 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S22 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S23 | 141.0526 | 0.5965 | 1.0175 | 0 | 28210.53 | 24000 | 0.850746 |
| S24 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S25 | 134.0351 | 0.5614 | 1.1930 | 0 | 26807.02 | 24000 | 0.895288 |
| S26 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S27 | 145.9649 | 0.5614 | 1.1930 | 0 | 29192.98 | 24000 | 0.822115 |
| S28 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S29 | 139.6491 | 0.5614 | 1.1930 | 0 | 27929.82 | 24000 | 0.859296 |
| S30 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S31 | 151.5789 | 0.5614 | 1.1930 | 0 | 30315.79 | 24000 | 0.791667 |
| S32 | 151.5789 | 0.5614 | 1.1930 | 0 | 30315.79 | 30000 | 0.989583 |
| S33 | 129.7778 | 0.5778 | 1.1111 | 0 | 25955.56 | 24000 | 0.924658 |
| S34 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S35 | 140.8889 | 0.5778 | 1.1111 | 0 | 28177.78 | 24000 | 0.851735 |
| S36 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S37 | 135.5556 | 0.5778 | 1.1111 | 0 | 27111.11 | 24000 | 0.885246 |
| S38 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S39 | 146.6667 | 0.5778 | 1.1111 | 0 | 29333.33 | 24000 | 0.818182 |
| S40 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S41 | 141.3333 | 0.5333 | 1.3333 | 0 | 28266.67 | 24000 | 0.849057 |
| S42 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S43 | 154.6667 | 0.5333 | 1.3333 | 0 | 30933.33 | 24000 | 0.775862 |
| S44 | 154.6667 | 0.5333 | 1.3333 | 0 | 30933.33 | 30000 | 0.969828 |
| S45 | 146.6667 | 0.5333 | 1.3333 | 0 | 29333.33 | 24000 | 0.818182 |
| S46 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S47 | 160 | 0.5333 | 1.3333 | 0 | 32000 | 24000 | 0.75 |
| S48 | 160 | 0.5333 | 1.3333 | 0 | 32000 | 30000 | 0.9375 |
| S49 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S50 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S51 | 128.3636 | 0.6182 | 0.9091 | 0 | 25672.73 | 24000 | 0.934844 |
| S52 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S53 | 125.4545 | 0.6182 | 0.9091 | 0 | 25090.91 | 24000 | 0.956522 |
| S54 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S55 | 134.5455 | 0.6182 | 0.9091 | 0 | 26909.09 | 24000 | 0.891892 |
| S56 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S57 | 128.7273 | 0.5818 | 1.0909 | 0 | 25745.45 | 24000 | 0.932203 |
| S58 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S59 | 139.6364 | 0.5818 | 1.0909 | 0 | 27927.27 | 24000 | 0.859375 |
| S60 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S61 | 134.5455 | 0.5818 | 1.0909 | 0 | 26909.09 | 24000 | 0.891892 |
| S62 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S63 | 145.4545 | 0.5818 | 1.0909 | 0 | 29090.91 | 24000 | 0.825 |
| S64 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S65 | 165.5319 | 0.9787 | 1.1064 | 0 | 33106.38 | 24000 | 0.724936 |
| S66 | 165.5319 | 0.9787 | 1.1064 | 0 | 33106.38 | 30000 | 0.90617 |
| S67 | 176.5957 | 0.9787 | 1.1064 | 0 | 35319.15 | 24000 | 0.679518 |
| S68 | 176.5957 | 0.9787 | 1.1064 | 0 | 35319.15 | 30000 | 0.849398 |
| S69 | 175.3191 | 0.9787 | 1.1064 | 0 | 35063.83 | 24000 | 0.684466 |
| S70 | 175.3191 | 0.9787 | 1.1064 | 0 | 35063.83 | 30000 | 0.855583 |
| S71 | 186.383 | 0.9787 | 1.1064 | 0 | 37276.6 | 24000 | 0.643836 |
| S72 | 186.383 | 0.9787 | 1.1064 | 0 | 37276.6 | 30000 | 0.804795 |
| S73 | 176.5957 | 0.9362 | 1.3191 | 0 | 35319.15 | 24000 | 0.679518 |
| S74 | 176.5957 | 0.9362 | 1.3191 | 0 | 35319.15 | 30000 | 0.849398 |
| S75 | 189.7872 | 0.9362 | 1.3191 | 0 | 37957.45 | 24000 | 0.632287 |
| S76 | 189.7872 | 0.9362 | 1.3191 | 0 | 37957.45 | 30000 | 0.790359 |
| S77 | 185.9574 | 0.9362 | 1.3191 | 0 | 37191.49 | 24000 | 0.645309 |
| S78 | 185.9574 | 0.9362 | 1.3191 | 0 | 37191.49 | 30000 | 0.806636 |
| S79 | 199.1489 | 0.9362 | 1.3191 | 0 | 39829.79 | 24000 | 0.602564 |
| S80 | 199.1489 | 0.9362 | 1.3191 | 0 | 39829.79 | 30000 | 0.753205 |
| S81 | 155.4386 | 1.0175 | 0.9123 | 0 | 31087.72 | 24000 | 0.772009 |
| S82 | 155.4386 | 1.0175 | 0.9123 | 0 | 31087.72 | 30000 | 0.965011 |
| S83 | 164.5614 | 1.0175 | 0.9123 | 0 | 32912.28 | 24000 | 0.729211 |
| S84 | 164.5614 | 1.0175 | 0.9123 | 0 | 32912.28 | 30000 | 0.911514 |
| S85 | 165.614 | 1.0175 | 0.9123 | 0 | 33122.81 | 24000 | 0.724576 |
| S86 | 165.614 | 1.0175 | 0.9123 | 0 | 33122.81 | 30000 | 0.90572 |
| S87 | 174.7368 | 1.0175 | 0.9123 | 0 | 34947.37 | 24000 | 0.686747 |
| S88 | 174.7368 | 1.0175 | 0.9123 | 0 | 34947.37 | 30000 | 0.858434 |
| S89 | 164.5614 | 0.9825 | 1.0877 | 0 | 32912.28 | 24000 | 0.729211 |
| S90 | 164.5614 | 0.9825 | 1.0877 | 0 | 32912.28 | 30000 | 0.911514 |
| S91 | 175.4386 | 0.9825 | 1.0877 | 0 | 35087.72 | 24000 | 0.684 |
| S92 | 175.4386 | 0.9825 | 1.0877 | 0 | 35087.72 | 30000 | 0.855 |
| S93 | 174.386 | 0.9825 | 1.0877 | 0 | 34877.19 | 24000 | 0.688129 |
| S94 | 174.386 | 0.9825 | 1.0877 | 0 | 34877.19 | 30000 | 0.860161 |
| S95 | 185.2632 | 0.9825 | 1.0877 | 0 | 37052.63 | 24000 | 0.647727 |
| S96 | 185.2632 | 0.9825 | 1.0877 | 0 | 37052.63 | 30000 | 0.809659 |
| S97 | 154.2222 | 1.0222 | 0.8889 | 0 | 30844.44 | 24000 | 0.778098 |
| S98 | 154.2222 | 1.0222 | 0.8889 | 0 | 30844.44 | 30000 | 0.972622 |
| S99 | 163.1111 | 1.0222 | 0.8889 | 0 | 32622.22 | 24000 | 0.735695 |
| S100 | 163.1111 | 1.0222 | 0.8889 | 0 | 32622.22 | 30000 | 0.919619 |
| S101 | 164.4444 | 1.0222 | 0.8889 | 0 | 32888.89 | 24000 | 0.72973 |
| S102 | 164.4444 | 1.0222 | 0.8889 | 0 | 32888.89 | 30000 | 0.912162 |
| S103 | 173.3333 | 1.0222 | 0.8889 | 0 | 34666.67 | 24000 | 0.692308 |

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|---|---|---|---|---|---|---|---|
| S104 | 173.3333 | 1.0222 | 0.8889 | 0 | 34666.67 | 30000 | 0.865385 |
| S105 | 165.7778 | 0.9778 | 1.1111 | 0 | 33155.56 | 24000 | 0.723861 |
| S106 | 165.7778 | 0.9778 | 1.1111 | 0 | 33155.56 | 30000 | 0.904826 |
| S107 | 176.8889 | 0.9778 | 1.1111 | 0 | 35377.78 | 24000 | 0.678392 |
| S108 | 176.8889 | 0.9778 | 1.1111 | 0 | 35377.78 | 30000 | 0.84799 |
| S109 | 175.5556 | 0.9778 | 1.1111 | 0 | 35111.11 | 24000 | 0.683544 |
| S110 | 175.5556 | 0.9778 | 1.1111 | 0 | 35111.11 | 30000 | 0.85443 |
| S111 | 186.6667 | 0.9778 | 1.1111 | 0 | 37333.33 | 24000 | 0.642857 |
| S112 | 186.6667 | 0.9778 | 1.1111 | 0 | 37333.33 | 30000 | 0.803571 |
| S113 | 145.8182 | 1.0545 | 0.7273 | 0 | 29163.64 | 24000 | 0.822943 |
| S114 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S115 | 153.0909 | 1.0545 | 0.7273 | 0 | 30618.18 | 24000 | 0.783848 |
| S116 | 153.0909 | 1.0545 | 0.7273 | 0 | 30618.18 | 30000 | 0.97981 |
| S117 | 156.3636 | 1.0545 | 0.7273 | 0 | 31272.73 | 24000 | 0.767442 |
| S118 | 156.3636 | 1.0545 | 0.7273 | 0 | 31272.73 | 30000 | 0.959302 |
| S119 | 163.6364 | 1.0545 | 0.7273 | 0 | 32727.27 | 24000 | 0.733333 |
| S120 | 163.6364 | 1.0545 | 0.7273 | 0 | 32727.27 | 30000 | 0.916667 |
| S121 | 155.2727 | 1.0182 | 0.9091 | 0 | 31054.55 | 24000 | 0.772834 |
| S122 | 155.2727 | 1.0182 | 0.9091 | 0 | 31054.55 | 30000 | 0.966042 |
| S123 | 164.3636 | 1.0182 | 0.9091 | 0 | 32872.73 | 24000 | 0.730088 |
| S124 | 164.3636 | 1.0182 | 0.9091 | 0 | 32872.73 | 30000 | 0.912611 |
| S125 | 165.4545 | 1.0182 | 0.9091 | 0 | 33090.91 | 24000 | 0.725275 |
| S126 | 165.4545 | 1.0182 | 0.9091 | 0 | 33090.91 | 30000 | 0.906593 |
| S127 | 174.5455 | 1.0182 | 0.9091 | 0 | 34909.09 | 24000 | 0.6875 |
| S128 | 174.5455 | 1.0182 | 0.9091 | 0 | 34909.09 | 30000 | 0.859375 |
| S129 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S130 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S131 | 130 | 0.2727 | 1.3182 | 0 | 26000 | 24000 | 0.923077 |
| S132 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S133 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S134 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S135 | 132.7273 | 0.2727 | 1.3182 | 0 | 26545.45 | 24000 | 0.90411 |
| S136 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S137 | 124.5455 | 0.1818 | 1.5455 | 0 | 24909.09 | 24000 | 0.963504 |
| S138 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S139 | 140 | 0.1818 | 1.5455 | 0 | 28000 | 24000 | 0.857143 |
| S140 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S141 | 126.3636 | 0.1818 | 1.5455 | 0 | 25272.73 | 24000 | 0.94964 |
| S142 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S143 | 141.8182 | 0.1818 | 1.5455 | 0 | 28363.64 | 24000 | 0.846154 |
| S144 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |

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|---|---|---|---|---|---|---|---|
| S145 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S146 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S147 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S148 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S149 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S150 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S151 | 122.963 | 0.3704 | 1.0741 | 0 | 24592.59 | 24000 | 0.975904 |
| S152 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S153 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S154 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S155 | 127.4074 | 0.2963 | 1.2593 | 0 | 25481.48 | 24000 | 0.94186 |
| S156 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S157 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S158 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S159 | 130.3704 | 0.2963 | 1.2593 | 0 | 26074.07 | 24000 | 0.920455 |
| S160 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S161 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S162 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S163 | 127 | 0.3000 | 1.2500 | 0 | 25400 | 24000 | 0.944882 |
| S164 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S165 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S166 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S167 | 130 | 0.3000 | 1.2500 | 0 | 26000 | 24000 | 0.923077 |
| S168 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S169 | 123 | 0.2000 | 1.5000 | 0 | 24600 | 24000 | 0.97561 |
| S170 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S171 | 138 | 0.2000 | 1.5000 | 0 | 27600 | 24000 | 0.869565 |
| S172 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S173 | 125 | 0.2000 | 1.5000 | 0 | 25000 | 24000 | 0.96 |
| S174 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S175 | 140 | 0.2000 | 1.5000 | 0 | 28000 | 24000 | 0.857143 |
| S176 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S177 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S178 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S179 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S180 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S181 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S182 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S183 | 120 | 0.4000 | 1.0000 | 0 | 24000 | 24000 | 1 |
| S184 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S185 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |

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|---|---|---|---|---|---|---|---|
| S186 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S187 | 124.8 | 0.3200 | 1.2000 | 0 | 24960 | 24000 | 0.961538 |
| S188 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S189 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S190 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S191 | 128 | 0.3200 | 1.2000 | 0 | 25600 | 24000 | 0.9375 |
| S192 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S193 | 148.1818 | 0.7273 | 1.1818 | 0 | 29636.36 | 24000 | 0.809816 |
| S194 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S195 | 160 | 0.7273 | 1.1818 | 0 | 32000 | 24000 | 0.75 |
| S196 | 160 | 0.7273 | 1.1818 | 0 | 32000 | 30000 | 0.9375 |
| S197 | 155.4545 | 0.7273 | 1.1818 | 0 | 31090.91 | 24000 | 0.77193 |
| S198 | 155.4545 | 0.7273 | 1.1818 | 0 | 31090.91 | 30000 | 0.964912 |
| S199 | 167.2727 | 0.7273 | 1.1818 | 0 | 33454.55 | 24000 | 0.717391 |
| S200 | 167.2727 | 0.7273 | 1.1818 | 0 | 33454.55 | 30000 | 0.896739 |
| S201 | 155.9091 | 0.6364 | 1.4091 | 0 | 31181.82 | 24000 | 0.769679 |
| S202 | 155.9091 | 0.6364 | 1.4091 | 0 | 31181.82 | 30000 | 0.962099 |
| S203 | 170 | 0.6364 | 1.4091 | 0 | 34000 | 24000 | 0.705882 |
| S204 | 170 | 0.6364 | 1.4091 | 0 | 34000 | 30000 | 0.882353 |
| S205 | 162.2727 | 0.6364 | 1.4091 | 0 | 32454.55 | 24000 | 0.739496 |
| S206 | 162.2727 | 0.6364 | 1.4091 | 0 | 32454.55 | 30000 | 0.92437 |
| S207 | 176.3636 | 0.6364 | 1.4091 | 0 | 35272.73 | 24000 | 0.680412 |
| S208 | 176.3636 | 0.6364 | 1.4091 | 0 | 35272.73 | 30000 | 0.850515 |
| S209 | 140.7407 | 0.8148 | 0.9630 | 0 | 28148.15 | 24000 | 0.852632 |
| S210 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S211 | 150.3704 | 0.8148 | 0.9630 | 0 | 30074.07 | 24000 | 0.79803 |
| S212 | 150.3704 | 0.8148 | 0.9630 | 0 | 30074.07 | 30000 | 0.997537 |
| S213 | 148.8889 | 0.8148 | 0.9630 | 0 | 29777.78 | 24000 | 0.80597 |
| S214 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S215 | 158.5185 | 0.8148 | 0.9630 | 0 | 31703.7 | 24000 | 0.757009 |
| S216 | 158.5185 | 0.8148 | 0.9630 | 0 | 31703.7 | 30000 | 0.946262 |
| S217 | 147.037 | 0.7407 | 1.1481 | 0 | 29407.41 | 24000 | 0.816121 |
| S218 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S219 | 158.5185 | 0.7407 | 1.1481 | 0 | 31703.7 | 24000 | 0.757009 |
| S220 | 158.5185 | 0.7407 | 1.1481 | 0 | 31703.7 | 30000 | 0.946262 |
| S221 | 154.4444 | 0.7407 | 1.1481 | 0 | 30888.89 | 24000 | 0.776978 |
| S222 | 154.4444 | 0.7407 | 1.1481 | 0 | 30888.89 | 30000 | 0.971223 |
| S223 | 165.9259 | 0.7407 | 1.1481 | 0 | 33185.19 | 24000 | 0.723214 |
| S224 | 165.9259 | 0.7407 | 1.1481 | 0 | 33185.19 | 30000 | 0.904018 |
| S225 | 142 | 0.8000 | 1.0000 | 0 | 28400 | 24000 | 0.84507 |
| S226 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |

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|---|---|---|---|---|---|---|---|
| S227 | 152 | 0.8000 | 1.0000 | 0 | 30400 | 24000 | 0.789474 |
| S228 | 152 | 0.8000 | 1.0000 | 0 | 30400 | 30000 | 0.986842 |
| S229 | 150 | 0.8000 | 1.0000 | 0 | 30000 | 24000 | 0.8 |
| S230 | 150 | 0.8000 | 1.0000 | 0 | 30000 | 30000 | 1 |
| S231 | 160 | 0.8000 | 1.0000 | 0 | 32000 | 24000 | 0.75 |
| S232 | 160 | 0.8000 | 1.0000 | 0 | 32000 | 30000 | 0.9375 |
| S233 | 150.5 | 0.7000 | 1.2500 | 0 | 30100 | 24000 | 0.797342 |
| S234 | 150.5 | 0.7000 | 1.2500 | 0 | 30100 | 30000 | 0.996678 |
| S235 | 163 | 0.7000 | 1.2500 | 0 | 32600 | 24000 | 0.736196 |
| S236 | 163 | 0.7000 | 1.2500 | 0 | 32600 | 30000 | 0.920245 |
| S237 | 157.5 | 0.7000 | 1.2500 | 0 | 31500 | 24000 | 0.761905 |
| S238 | 157.5 | 0.7000 | 1.2500 | 0 | 31500 | 30000 | 0.952381 |
| S239 | 170 | 0.7000 | 1.2500 | 0 | 34000 | 24000 | 0.705882 |
| S240 | 170 | 0.7000 | 1.2500 | 0 | 34000 | 30000 | 0.882353 |
| S241 | 135.2 | 0.8800 | 0.8000 | 0 | 27040 | 24000 | 0.887574 |
| S242 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S243 | 143.2 | 0.8800 | 0.8000 | 0 | 28640 | 24000 | 0.837989 |
| S244 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S245 | 144 | 0.8800 | 0.8000 | 0 | 28800 | 24000 | 0.833333 |
| S246 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S247 | 152 | 0.8800 | 0.8000 | 0 | 30400 | 24000 | 0.789474 |
| S248 | 152 | 0.8800 | 0.8000 | 0 | 30400 | 30000 | 0.986842 |
| S249 | 142 | 0.8000 | 1.0000 | 0 | 28400 | 24000 | 0.84507 |
| S250 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S251 | 152 | 0.8000 | 1.0000 | 0 | 30400 | 24000 | 0.789474 |
| S252 | 152 | 0.8000 | 1.0000 | 0 | 30400 | 30000 | 0.986842 |
| S253 | 150 | 0.8000 | 1.0000 | 0 | 30000 | 24000 | 0.8 |
| S254 | 150 | 0.8000 | 1.0000 | 0 | 30000 | 30000 | 1 |
| S255 | 160 | 0.8000 | 1.0000 | 0 | 32000 | 24000 | 0.75 |
| S256 | 160 | 0.8000 | 1.0000 | 0 | 32000 | 30000 | 0.9375 |
| S257 | 122.9167 | 0.3611 | 1.2917 | 0 | 24583.33 | 24000 | 0.976271 |
| S258 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S259 | 135.8333 | 0.3611 | 1.2917 | 0 | 27166.67 | 24000 | 0.883436 |
| S260 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S261 | 126.5278 | 0.3611 | 1.2917 | 0 | 25305.56 | 24000 | 0.948408 |
| S262 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S263 | 139.4444 | 0.3611 | 1.2917 | 0 | 27888.89 | 24000 | 0.860558 |
| S264 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S265 | 135 | 0.3333 | 1.5000 | 0 | 27000 | 24000 | 0.888889 |
| S266 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S267 | 150 | 0.3333 | 1.5000 | 0 | 30000 | 24000 | 0.8 |

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|---|---|---|---|---|---|---|---|
| S268 | 150 | 0.3333 | 1.5000 | 0 | 30000 | 30000 | 1 |
| S269 | 138.3333 | 0.3333 | 1.5000 | 0 | 27666.67 | 24000 | 0.86747 |
| S270 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S271 | 153.3333 | 0.3333 | 1.5000 | 0 | 30666.67 | 24000 | 0.782609 |
| S272 | 153.3333 | 0.3333 | 1.5000 | 0 | 30666.67 | 30000 | 0.978261 |
| S273 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S274 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S275 | 120.6897 | 0.3908 | 1.0690 | 0 | 24137.93 | 24000 | 0.994286 |
| S276 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S277 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S278 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S279 | 124.5977 | 0.3908 | 1.0690 | 0 | 24919.54 | 24000 | 0.9631 |
| S280 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S281 | 120 | 0.3678 | 1.2414 | 0 | 24000 | 24000 | 1 |
| S282 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S283 | 132.4138 | 0.3678 | 1.2414 | 0 | 26482.76 | 24000 | 0.90625 |
| S284 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S285 | 123.6782 | 0.3678 | 1.2414 | 0 | 24735.63 | 24000 | 0.97026 |
| S286 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S287 | 136.092 | 0.3678 | 1.2414 | 0 | 27218.39 | 24000 | 0.881757 |
| S288 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S289 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S290 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S291 | 130.5714 | 0.3714 | 1.2143 | 0 | 26114.29 | 24000 | 0.919037 |
| S292 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S293 | 122.1429 | 0.3714 | 1.2143 | 0 | 24428.57 | 24000 | 0.982456 |
| S294 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S295 | 134.2857 | 0.3714 | 1.2143 | 0 | 26857.14 | 24000 | 0.893617 |
| S296 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S297 | 130.8571 | 0.3429 | 1.4286 | 0 | 26171.43 | 24000 | 0.917031 |
| S298 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S299 | 145.1429 | 0.3429 | 1.4286 | 0 | 29028.57 | 24000 | 0.826772 |
| S300 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S301 | 134.2857 | 0.3429 | 1.4286 | 0 | 26857.14 | 24000 | 0.893617 |
| S302 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S303 | 148.5714 | 0.3429 | 1.4286 | 0 | 29714.29 | 24000 | 0.807692 |
| S304 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S305 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S306 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S307 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S308 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |

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|---|---|---|---|---|---|---|---|
| S309 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S310 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S311 | 120 | 0.4000 | 1.0000 | 0 | 24000 | 24000 | 1 |
| S312 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S313 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S314 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S315 | 128 | 0.3765 | 1.1765 | 0 | 25600 | 24000 | 0.9375 |
| S316 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S317 | 120 | 0.3765 | 1.1765 | 0 | 24000 | 24000 | 1 |
| S318 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S319 | 131.7647 | 0.3765 | 1.1765 | 0 | 26352.94 | 24000 | 0.910714 |
| S320 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S321 | 142.0833 | 0.6389 | 1.2083 | 0 | 28416.67 | 24000 | 0.844575 |
| S322 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S323 | 154.1667 | 0.6389 | 1.2083 | 0 | 30833.33 | 24000 | 0.778378 |
| S324 | 154.1667 | 0.6389 | 1.2083 | 0 | 30833.33 | 30000 | 0.972973 |
| S325 | 148.4722 | 0.6389 | 1.2083 | 0 | 29694.44 | 24000 | 0.808232 |
| S326 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S327 | 160.5556 | 0.6389 | 1.2083 | 0 | 32111.11 | 24000 | 0.747405 |
| S328 | 160.5556 | 0.6389 | 1.2083 | 0 | 32111.11 | 30000 | 0.934256 |
| S329 | 154.1667 | 0.6111 | 1.4167 | 0 | 30833.33 | 24000 | 0.778378 |
| S330 | 154.1667 | 0.6111 | 1.4167 | 0 | 30833.33 | 30000 | 0.972973 |
| S331 | 168.3333 | 0.6111 | 1.4167 | 0 | 33666.67 | 24000 | 0.712871 |
| S332 | 168.3333 | 0.6111 | 1.4167 | 0 | 33666.67 | 30000 | 0.891089 |
| S333 | 160.2778 | 0.6111 | 1.4167 | 0 | 32055.56 | 24000 | 0.7487 |
| S334 | 160.2778 | 0.6111 | 1.4167 | 0 | 32055.56 | 30000 | 0.935875 |
| S335 | 174.4444 | 0.6111 | 1.4167 | 0 | 34888.89 | 24000 | 0.687898 |
| S336 | 174.4444 | 0.6111 | 1.4167 | 0 | 34888.89 | 30000 | 0.859873 |
| S337 | 130 | 0.6667 | 1.0000 | 0 | 26000 | 24000 | 0.923077 |
| S338 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S339 | 140 | 0.6667 | 1.0000 | 0 | 28000 | 24000 | 0.857143 |
| S340 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S341 | 136.6667 | 0.6667 | 1.0000 | 0 | 27333.33 | 24000 | 0.878049 |
| S342 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S343 | 146.6667 | 0.6667 | 1.0000 | 0 | 29333.33 | 24000 | 0.818182 |
| S344 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S345 | 140 | 0.6437 | 1.1724 | 0 | 28000 | 24000 | 0.857143 |
| S346 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S347 | 151.7241 | 0.6437 | 1.1724 | 0 | 30344.83 | 24000 | 0.790909 |
| S348 | 151.7241 | 0.6437 | 1.1724 | 0 | 30344.83 | 30000 | 0.988636 |
| S349 | 146.4368 | 0.6437 | 1.1724 | 0 | 29287.36 | 24000 | 0.819466 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S350 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S351 | 158.1609 | 0.6437 | 1.1724 | 0 | 31632.18 | 24000 | 0.758721 |
| S352 | 158.1609 | 0.6437 | 1.1724 | 0 | 31632.18 | 30000 | 0.948401 |
| S353 | 134.1429 | 0.6571 | 1.0714 | 0 | 26828.57 | 24000 | 0.894569 |
| S354 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S355 | 144.8571 | 0.6571 | 1.0714 | 0 | 28971.43 | 24000 | 0.828402 |
| S356 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S357 | 140.7143 | 0.6571 | 1.0714 | 0 | 28142.86 | 24000 | 0.852792 |
| S358 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S359 | 151.4286 | 0.6571 | 1.0714 | 0 | 30285.71 | 24000 | 0.792453 |
| S360 | 151.4286 | 0.6571 | 1.0714 | 0 | 30285.71 | 30000 | 0.990566 |
| S361 | 146.5714 | 0.6286 | 1.2857 | 0 | 29314.29 | 24000 | 0.818713 |
| S362 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S363 | 159.4286 | 0.6286 | 1.2857 | 0 | 31885.71 | 24000 | 0.752688 |
| S364 | 159.4286 | 0.6286 | 1.2857 | 0 | 31885.71 | 30000 | 0.94086 |
| S365 | 152.8571 | 0.6286 | 1.2857 | 0 | 30571.43 | 24000 | 0.785047 |
| S366 | 152.8571 | 0.6286 | 1.2857 | 0 | 30571.43 | 30000 | 0.981308 |
| S367 | 165.7143 | 0.6286 | 1.2857 | 0 | 33142.86 | 24000 | 0.724138 |
| S368 | 165.7143 | 0.6286 | 1.2857 | 0 | 33142.86 | 30000 | 0.905172 |
| S369 | 123.1765 | 0.6824 | 0.8824 | 0 | 24635.29 | 24000 | 0.974212 |
| S370 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S371 | 132 | 0.6824 | 0.8824 | 0 | 26400 | 24000 | 0.909091 |
| S372 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S373 | 130 | 0.6824 | 0.8824 | 0 | 26000 | 24000 | 0.923077 |
| S374 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S375 | 138.8235 | 0.6824 | 0.8824 | 0 | 27764.71 | 24000 | 0.864407 |
| S376 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S377 | 133.4118 | 0.6588 | 1.0588 | 0 | 26682.35 | 24000 | 0.899471 |
| S378 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S379 | 144 | 0.6588 | 1.0588 | 0 | 28800 | 24000 | 0.833333 |
| S380 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S381 | 140 | 0.6588 | 1.0588 | 0 | 28000 | 24000 | 0.857143 |
| S382 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S383 | 150.5882 | 0.6588 | 1.0588 | 0 | 30117.65 | 24000 | 0.796875 |
| S384 | 150.5882 | 0.6588 | 1.0588 | 0 | 30117.65 | 30000 | 0.996094 |
| S385 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S386 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S387 | 123.4783 | 0.1739 | 1.3478 | 0 | 24695.65 | 24000 | 0.971831 |
| S388 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S389 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S390 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S391 | 125.2174 | 0.1739 | 1.3478 | 0 | 25043.48 | 24000 | 0.958333 |
| S392 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S393 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S394 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S395 | 135.6522 | 0.1159 | 1.5652 | 0 | 27130.43 | 24000 | 0.884615 |
| S396 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S397 | 121.1594 | 0.1159 | 1.5652 | 0 | 24231.88 | 24000 | 0.990431 |
| S398 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S399 | 136.8116 | 0.1159 | 1.5652 | 0 | 27362.32 | 24000 | 0.877119 |
| S400 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S401 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S402 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S403 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S404 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S405 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S406 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S407 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S408 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S409 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S410 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S411 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S412 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S413 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S414 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S415 | 121.9048 | 0.1905 | 1.2857 | 0 | 24380.95 | 24000 | 0.984375 |
| S416 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S417 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S418 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S419 | 121.2308 | 0.1846 | 1.3077 | 0 | 24246.15 | 24000 | 0.989848 |
| S420 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S421 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S422 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S423 | 123.0769 | 0.1846 | 1.3077 | 0 | 24615.38 | 24000 | 0.975 |
| S424 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S425 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S426 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S427 | 134.1538 | 0.1231 | 1.5385 | 0 | 26830.77 | 24000 | 0.894495 |
| S428 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S429 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S430 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S431 | 135.3846 | 0.1231 | 1.5385 | 0 | 27076.92 | 24000 | 0.886364 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S432 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S433 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S434 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S435 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S436 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S437 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S438 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S439 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S440 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S441 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S442 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S443 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S444 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S445 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S446 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S447 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S448 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S449 | 130 | 0.4638 | 1.2609 | 0 | 26000 | 24000 | 0.923077 |
| S450 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S451 | 142.6087 | 0.4638 | 1.2609 | 0 | 28521.74 | 24000 | 0.841463 |
| S452 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S453 | 134.6377 | 0.4638 | 1.2609 | 0 | 26927.54 | 24000 | 0.891281 |
| S454 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S455 | 147.2464 | 0.4638 | 1.2609 | 0 | 29449.28 | 24000 | 0.814961 |
| S456 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S457 | 140 | 0.4058 | 1.4783 | 0 | 28000 | 24000 | 0.857143 |
| S458 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S459 | 154.7826 | 0.4058 | 1.4783 | 0 | 30956.52 | 24000 | 0.775281 |
| S460 | 154.7826 | 0.4058 | 1.4783 | 0 | 30956.52 | 30000 | 0.969101 |
| S461 | 144.058 | 0.4058 | 1.4783 | 0 | 28811.59 | 24000 | 0.832998 |
| S462 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S463 | 158.8406 | 0.4058 | 1.4783 | 0 | 31768.12 | 24000 | 0.755474 |
| S464 | 158.8406 | 0.4058 | 1.4783 | 0 | 31768.12 | 30000 | 0.944343 |
| S465 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S466 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S467 | 130 | 0.5238 | 1.0357 | 0 | 26000 | 24000 | 0.923077 |
| S468 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S469 | 124.881 | 0.5238 | 1.0357 | 0 | 24976.19 | 24000 | 0.960915 |
| S470 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S471 | 135.2381 | 0.5238 | 1.0357 | 0 | 27047.62 | 24000 | 0.887324 |
| S472 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S473 | 127.8571 | 0.4762 | 1.2143 | 0 | 25571.43 | 24000 | 0.938547 |
| S474 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S475 | 140 | 0.4762 | 1.2143 | 0 | 28000 | 24000 | 0.857143 |
| S476 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S477 | 132.619 | 0.4762 | 1.2143 | 0 | 26523.81 | 24000 | 0.904847 |
| S478 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S479 | 144.7619 | 0.4762 | 1.2143 | 0 | 28952.38 | 24000 | 0.828947 |
| S480 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S481 | 125.0769 | 0.4923 | 1.1538 | 0 | 25015.38 | 24000 | 0.95941 |
| S482 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S483 | 136.6154 | 0.4923 | 1.1538 | 0 | 27323.08 | 24000 | 0.878378 |
| S484 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S485 | 130 | 0.4923 | 1.1538 | 0 | 26000 | 24000 | 0.923077 |
| S486 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S487 | 141.5385 | 0.4923 | 1.1538 | 0 | 28307.69 | 24000 | 0.847826 |
| S488 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S489 | 135.6923 | 0.4308 | 1.3846 | 0 | 27138.46 | 24000 | 0.884354 |
| S490 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S491 | 149.5385 | 0.4308 | 1.3846 | 0 | 29907.69 | 24000 | 0.802469 |
| S492 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S493 | 140 | 0.4308 | 1.3846 | 0 | 28000 | 24000 | 0.857143 |
| S494 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S495 | 153.8462 | 0.4308 | 1.3846 | 0 | 30769.23 | 24000 | 0.78 |
| S496 | 153.8462 | 0.4308 | 1.3846 | 0 | 30769.23 | 30000 | 0.975 |
| S497 | 120 | 0.0000 | 0.0000 | 1 | 24000 | 24000 | 1 |
| S498 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S499 | 124.5 | 0.5500 | 0.9375 | 0 | 24900 | 24000 | 0.963855 |
| S500 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S501 | 120.625 | 0.5500 | 0.9375 | 0 | 24125 | 24000 | 0.994819 |
| S502 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S503 | 130 | 0.5500 | 0.9375 | 0 | 26000 | 24000 | 0.923077 |
| S504 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S505 | 123.75 | 0.5000 | 1.1250 | 0 | 24750 | 24000 | 0.969697 |
| S506 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S507 | 135 | 0.5000 | 1.1250 | 0 | 27000 | 24000 | 0.888889 |
| S508 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S509 | 128.75 | 0.5000 | 1.1250 | 0 | 25750 | 24000 | 0.932039 |
| S510 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |
| S511 | 140 | 0.5000 | 1.1250 | 0 | 28000 | 24000 | 0.857143 |
| S512 | 150 | 0.0000 | 0.0000 | 1 | 30000 | 30000 | 1 |

## Appendix D

# Profit Allocation Model Results for Numerical Example

Table **D-1**: Profit Model Results for DMU A

| | DMUA | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Scenario | x1* | x2* | y* | lambdaA | lambdaB | lambdaC | O.F. | Current | Eff |
| S1 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S2 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S3 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S4 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S5 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S6 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S7 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S8 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S9 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S10 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S11 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S12 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S13 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S14 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S15 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S16 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S17 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S18 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S19 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S20 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S21 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S22 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S23 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S24 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S25 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S26 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S27 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S28 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S29 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S30 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| S31 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S32 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S33 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S34 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S35 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S36 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S37 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S38 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S39 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S40 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S41 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S42 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S43 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S44 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S45 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S46 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S47 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S48 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S49 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S50 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S51 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S52 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S53 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S54 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S55 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S56 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S57 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S58 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S59 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S60 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S61 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S62 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S63 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S64 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S65 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S66 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S67 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S68 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S69 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S70 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S71 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| S72 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S73 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S74 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S75 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S76 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S77 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S78 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S79 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S80 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S81 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S82 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S83 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S84 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S85 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S86 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S87 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S88 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S89 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S90 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S91 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S92 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S93 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S94 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S95 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S96 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S97 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S98 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S99 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S100 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S101 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S102 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S103 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S104 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S105 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S106 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S107 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S108 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S109 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S110 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S111 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S112 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S113 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S114 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S115 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S116 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S117 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S118 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S119 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S120 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S121 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S122 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S123 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S124 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S125 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S126 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S127 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S128 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S129 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S130 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S131 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S132 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S133 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S134 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S135 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S136 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S137 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S138 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S139 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S140 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S141 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S142 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S143 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S144 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S145 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S146 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S147 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S148 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S149 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S150 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S151 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S152 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S153 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S154 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S155 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S156 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S157 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S158 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S159 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S160 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S161 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S162 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S163 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S164 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S165 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S166 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S167 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S168 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S169 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S170 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S171 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S172 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S173 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S174 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S175 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S176 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S177 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S178 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S179 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S180 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S181 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S182 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S183 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S184 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S185 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S186 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S187 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S188 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S189 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S190 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S191 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S192 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S193 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S194 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S195 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S196 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S197 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S198 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S199 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S200 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S201 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S202 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S203 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S204 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S205 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S206 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S207 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S208 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S209 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S210 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S211 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S212 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S213 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S214 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S215 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S216 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S217 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S218 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S219 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S220 | 50 | 15 | 90 | 1 | 0 | 0 | 7700 | 7700 | 1 |
| S221 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S222 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S223 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S224 | 50 | 15 | 100 | 1 | 0 | 0 | 8700 | 8700 | 1 |
| S225 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S226 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S227 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S228 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S229 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S230 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S231 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S232 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S233 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S234 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S235 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S236 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S237 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S238 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S239 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S240 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S241 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S242 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S243 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S244 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S245 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S246 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S247 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S248 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S249 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S250 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S251 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S252 | 50 | 25 | 90 | 1 | 0 | 0 | 7000 | 7000 | 1 |
| S253 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S254 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S255 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S256 | 50 | 25 | 100 | 1 | 0 | 0 | 8000 | 8000 | 1 |
| S257 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S258 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S259 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S260 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S261 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S262 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S263 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S264 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S265 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S266 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S267 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S268 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S269 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S270 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S271 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S272 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S273 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S274 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S275 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S276 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S277 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S278 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S279 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S280 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S281 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S282 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S283 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S284 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S285 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S286 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S287 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S288 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S289 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S290 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S291 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S292 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S293 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S294 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S295 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S296 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S297 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S298 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S299 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S300 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S301 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S302 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S303 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S304 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S305 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S306 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S307 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S308 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S309 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S310 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S311 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S312 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S313 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S314 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S315 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S316 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S317 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S318 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S319 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S320 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S321 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S322 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S323 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S324 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S325 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S326 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S327 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S328 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S329 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S330 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S331 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S332 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S333 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S334 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S335 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S336 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S337 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S338 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S339 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S340 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S341 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S342 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S343 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S344 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S345 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S346 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S347 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S348 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S349 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S350 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S351 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S352 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S353 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S354 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S355 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S356 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S357 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S358 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S359 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S360 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S361 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S362 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S363 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S364 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S365 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S366 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S367 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S368 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S369 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S370 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S371 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S372 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S373 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S374 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S375 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S376 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S377 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S378 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S379 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S380 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S381 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S382 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S383 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S384 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S385 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S386 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S387 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S388 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S389 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S390 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S391 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S392 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S393 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S394 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S395 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S396 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S397 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S398 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S399 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S400 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S401 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S402 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S403 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S404 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S405 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S406 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S407 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S408 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S409 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S410 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S411 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S412 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S413 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S414 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S415 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S416 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S417 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S418 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S419 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S420 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S421 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S422 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S423 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S424 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S425 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S426 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S427 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S428 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S429 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S430 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S431 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S432 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S433 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S434 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S435 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S436 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S437 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S438 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S439 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S440 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| S441 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S442 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S443 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S444 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S445 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S446 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S447 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S448 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S449 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S450 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S451 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S452 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S453 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S454 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S455 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S456 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S457 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S458 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S459 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S460 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S461 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S462 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S463 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S464 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S465 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S466 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S467 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S468 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S469 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S470 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S471 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S472 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S473 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S474 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S475 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S476 | 75 | 15 | 90 | 1 | 0 | 0 | 7575 | 7575 | 1 |
| S477 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S478 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S479 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S480 | 75 | 15 | 100 | 1 | 0 | 0 | 8575 | 8575 | 1 |
| S481 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| S482 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S483 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S484 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S485 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S486 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S487 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S488 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S489 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S490 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S491 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S492 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S493 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S494 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S495 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S496 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S497 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S498 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S499 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S500 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S501 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S502 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S503 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S504 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S505 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S506 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S507 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S508 | 75 | 25 | 90 | 1 | 0 | 0 | 6875 | 6875 | 1 |
| S509 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S510 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S511 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |
| S512 | 75 | 25 | 100 | 1 | 0 | 0 | 7875 | 7875 | 1 |

Table **D-2**: Profit Model Results for DMU B

| | DMUB | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Scenario | x1* | x2* | y* | lambdaA | lambdaB | lambdaC | O.F. | Current | Eff |
| S1 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S2 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S3 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S4 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S5 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| S6 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S7 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S8 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S9 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S10 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S11 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S12 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S13 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S14 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S15 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S16 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S17 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S18 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S19 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S20 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S21 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S22 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S23 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S24 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S25 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S26 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S27 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S28 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S29 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S30 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S31 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S32 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S33 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S34 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S35 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S36 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S37 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S38 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S39 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S40 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S41 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S42 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S43 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S44 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S45 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S46 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| S47 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S48 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S49 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S50 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S51 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S52 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S53 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S54 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S55 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S56 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S57 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S58 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S59 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S60 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S61 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S62 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S63 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S64 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S65 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S66 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S67 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S68 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S69 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S70 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S71 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S72 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S73 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S74 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S75 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S76 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S77 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S78 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S79 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S80 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S81 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S82 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S83 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S84 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S85 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S86 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S87 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| S88 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S89 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S90 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S91 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S92 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S93 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S94 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S95 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S96 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S97 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S98 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S99 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S100 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S101 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S102 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S103 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S104 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S105 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S106 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S107 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S108 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S109 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S110 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S111 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S112 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S113 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S114 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S115 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S116 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S117 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S118 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S119 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S120 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S121 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S122 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S123 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S124 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S125 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S126 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S127 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S128 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| S129 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S130 | 20 | 35 | 75 | 0 | 0 | 0.5 | 8950 | 7300 | 0.815642 |
| S131 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S132 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S133 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S134 | 20 | 35 | 75 | 0 | 0 | 0.5 | 8950 | 7300 | 0.815642 |
| S135 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S136 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S137 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S138 | 20 | 40 | 75 | 0 | 0 | 0.5 | 8650 | 7300 | 0.843931 |
| S139 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S140 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S141 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S142 | 20 | 40 | 75 | 0 | 0 | 0.5 | 8650 | 7300 | 0.843931 |
| S143 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S144 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S145 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S146 | 20 | 35 | 75 | 0 | 0 | 0.5 | 8950 | 6700 | 0.748603 |
| S147 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S148 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S149 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S150 | 20 | 35 | 75 | 0 | 0 | 0.5 | 8950 | 6700 | 0.748603 |
| S151 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S152 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S153 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S154 | 20 | 40 | 75 | 0 | 0 | 0.5 | 8650 | 6700 | 0.774566 |
| S155 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S156 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S157 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S158 | 20 | 40 | 75 | 0 | 0 | 0.5 | 8650 | 6700 | 0.774566 |
| S159 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S160 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S161 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S162 | 20 | 35 | 75 | 0 | 0 | 0.5 | 8950 | 7300 | 0.815642 |
| S163 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S164 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S165 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S166 | 20 | 35 | 75 | 0 | 0 | 0.5 | 8950 | 7300 | 0.815642 |
| S167 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S168 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S169 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| S170 | 20 | 40 | 75 | 0 | 0 | 0.5 | 8650 | 7300 | 0.843931 |
| S171 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S172 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S173 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S174 | 20 | 40 | 75 | 0 | 0 | 0.5 | 8650 | 7300 | 0.843931 |
| S175 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S176 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S177 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S178 | 20 | 35 | 75 | 0 | 0 | 0.5 | 8950 | 6700 | 0.748603 |
| S179 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S180 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S181 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S182 | 20 | 35 | 75 | 0 | 0 | 0.5 | 8950 | 6700 | 0.748603 |
| S183 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S184 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S185 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S186 | 20 | 40 | 75 | 0 | 0 | 0.5 | 8650 | 6700 | 0.774566 |
| S187 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S188 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S189 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S190 | 20 | 40 | 75 | 0 | 0 | 0.5 | 8650 | 6700 | 0.774566 |
| S191 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S192 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S193 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S194 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S195 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S196 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S197 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S198 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S199 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S200 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S201 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S202 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S203 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S204 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S205 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S206 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S207 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S208 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S209 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S210 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S211 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S212 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S213 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S214 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S215 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S216 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S217 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S218 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S219 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S220 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S221 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S222 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S223 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S224 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S225 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S226 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S227 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S228 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S229 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S230 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S231 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S232 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S233 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S234 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S235 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S236 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S237 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S238 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S239 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S240 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S241 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S242 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S243 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S244 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S245 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S246 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S247 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S248 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S249 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S250 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S251 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S252 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S253 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S254 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S255 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S256 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S257 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S258 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S259 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S260 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S261 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S262 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S263 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S264 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S265 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S266 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S267 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S268 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S269 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S270 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S271 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S272 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S273 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S274 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S275 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S276 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S277 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S278 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S279 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S280 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S281 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S282 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S283 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S284 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S285 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S286 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S287 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S288 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S289 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S290 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S291 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S292 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S293 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S294 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S295 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S296 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S297 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S298 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S299 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S300 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S301 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S302 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S303 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S304 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S305 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S306 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S307 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S308 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S309 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S310 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S311 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S312 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S313 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S314 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S315 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S316 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S317 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S318 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S319 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S320 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S321 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S322 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S323 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S324 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S325 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S326 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S327 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S328 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S329 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S330 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S331 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S332 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S333 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S334 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S335 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S336 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S337 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S338 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S339 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S340 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S341 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S342 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S343 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S344 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S345 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S346 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S347 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S348 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S349 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S350 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S351 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S352 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S353 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S354 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S355 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S356 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S357 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S358 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S359 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S360 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S361 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S362 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S363 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S364 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S365 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S366 | 10 | 50 | 70 | 0 | 1 | 0.0 | 7400 | 7400 | 1 |
| S367 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S368 | 10 | 50 | 80 | 0 | 1 | 0.0 | 8900 | 8900 | 1 |
| S369 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S370 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S371 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S372 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S373 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S374 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S375 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S376 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S377 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S378 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S379 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S380 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S381 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S382 | 10 | 60 | 70 | 0 | 1 | 0.0 | 6800 | 6800 | 1 |
| S383 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S384 | 10 | 60 | 80 | 0 | 1 | 0.0 | 8300 | 8300 | 1 |
| S385 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S386 | 20 | 35 | 75 | 0 | 0 | 0.5 | 8950 | 7300 | 0.815642 |
| S387 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S388 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S389 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S390 | 20 | 35 | 75 | 0 | 0 | 0.5 | 8950 | 7300 | 0.815642 |
| S391 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S392 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S393 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S394 | 20 | 40 | 75 | 0 | 0 | 0.5 | 8650 | 7300 | 0.843931 |
| S395 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S396 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S397 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S398 | 20 | 40 | 75 | 0 | 0 | 0.5 | 8650 | 7300 | 0.843931 |
| S399 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S400 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S401 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S402 | 20 | 35 | 75 | 0 | 0 | 0.5 | 8950 | 6700 | 0.748603 |
| S403 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S404 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S405 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S406 | 20 | 35 | 75 | 0 | 0 | 0.5 | 8950 | 6700 | 0.748603 |
| S407 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S408 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S409 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S410 | 20 | 40 | 75 | 0 | 0 | 0.5 | 8650 | 6700 | 0.774566 |
| S411 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S412 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S413 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S414 | 20 | 40 | 75 | 0 | 0 | 0.5 | 8650 | 6700 | 0.774566 |
| S415 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S416 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S417 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S418 | 20 | 35 | 75 | 0 | 0 | 0.5 | 8950 | 7300 | 0.815642 |
| S419 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S420 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S421 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S422 | 20 | 35 | 75 | 0 | 0 | 0.5 | 8950 | 7300 | 0.815642 |
| S423 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S424 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S425 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S426 | 20 | 40 | 75 | 0 | 0 | 0.5 | 8650 | 7300 | 0.843931 |
| S427 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S428 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S429 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S430 | 20 | 40 | 75 | 0 | 0 | 0.5 | 8650 | 7300 | 0.843931 |
| S431 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S432 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S433 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S434 | 20 | 35 | 75 | 0 | 0 | 0.5 | 8950 | 6700 | 0.748603 |
| S435 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S436 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S437 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S438 | 20 | 35 | 75 | 0 | 0 | 0.5 | 8950 | 6700 | 0.748603 |
| S439 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S440 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S441 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S442 | 20 | 40 | 75 | 0 | 0 | 0.5 | 8650 | 6700 | 0.774566 |
| S443 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S444 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S445 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S446 | 20 | 40 | 75 | 0 | 0 | 0.5 | 8650 | 6700 | 0.774566 |
| S447 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S448 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S449 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S450 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S451 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S452 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S453 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S454 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S455 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S456 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S457 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S458 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S459 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S460 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S461 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S462 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S463 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S464 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S465 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S466 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S467 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S468 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S469 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S470 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S471 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S472 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S473 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S474 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S475 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S476 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S477 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S478 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S479 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S480 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S481 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S482 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S483 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S484 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S485 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S486 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S487 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S488 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S489 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S490 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S491 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S492 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S493 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S494 | 20 | 50 | 70 | 0 | 1 | 0.0 | 7300 | 7300 | 1 |
| S495 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S496 | 20 | 50 | 80 | 0 | 1 | 0.0 | 8800 | 8800 | 1 |
| S497 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| S498 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S499 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S500 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S501 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S502 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S503 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S504 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S505 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S506 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S507 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S508 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S509 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S510 | 20 | 60 | 70 | 0 | 1 | 0.0 | 6700 | 6700 | 1 |
| S511 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |
| S512 | 20 | 60 | 80 | 0 | 1 | 0.0 | 8200 | 8200 | 1 |

Table **D-3**: Profit Model Results for DMU C

| | DMUC | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Scenario | x1* | x2* | y* | lambdaA | lambdaB | lambdaC | O.F. | Current | Eff |
| S1 | 40 | 70 | 136.17 | 0.553 | 1.234 | 0 | 23134 | 19900 | 0.860204 |
| S2 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S3 | 40 | 70 | 148.51 | 0.553 | 1.234 | 0 | 25602 | 19900 | 0.777279 |
| S4 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S5 | 40 | 70 | 141.70 | 0.553 | 1.234 | 0 | 24240 | 19900 | 0.820943 |
| S6 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S7 | 40 | 70 | 154.04 | 0.553 | 1.234 | 0 | 26709 | 19900 | 0.745081 |
| S8 | 40 | 70 | 154.04 | 0.553 | 1.234 | 0 | 26709 | 25900 | 0.969728 |
| S9 | 40 | 80 | 147.23 | 0.511 | 1.447 | 0 | 24847 | 19400 | 0.780784 |
| S10 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S11 | 40 | 80 | 161.70 | 0.511 | 1.447 | 0 | 27740 | 19400 | 0.69934 |
| S12 | 40 | 80 | 161.70 | 0.511 | 1.447 | 0 | 27740 | 25400 | 0.915631 |
| S13 | 40 | 80 | 152.34 | 0.511 | 1.447 | 0 | 25868 | 19400 | 0.749959 |
| S14 | 40 | 80 | 152.34 | 0.511 | 1.447 | 0 | 25868 | 25400 | 0.981905 |
| S15 | 40 | 80 | 166.81 | 0.511 | 1.447 | 0 | 28762 | 19400 | 0.674508 |
| S16 | 40 | 80 | 166.81 | 0.511 | 1.447 | 0 | 28762 | 25400 | 0.883119 |
| S17 | 40 | 70 | 124.91 | 0.596 | 1.018 | 0 | 20882 | 19900 | 0.952953 |
| S18 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S19 | 40 | 70 | 135.09 | 0.596 | 1.018 | 0 | 22918 | 19900 | 0.86833 |
| S20 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S21 | 40 | 70 | 130.88 | 0.596 | 1.018 | 0 | 22075 | 19900 | 0.901454 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| S22 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S23 | 40 | 70 | 141.05 | 0.596 | 1.018 | 0 | 24111 | 19900 | 0.825366 |
| S24 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S25 | 40 | 80 | 134.04 | 0.561 | 1.193 | 0 | 22207 | 19400 | 0.873598 |
| S26 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S27 | 40 | 80 | 145.96 | 0.561 | 1.193 | 0 | 24593 | 19400 | 0.788843 |
| S28 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S29 | 40 | 80 | 139.65 | 0.561 | 1.193 | 0 | 23330 | 19400 | 0.831554 |
| S30 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S31 | 40 | 80 | 151.58 | 0.561 | 1.193 | 0 | 25716 | 19400 | 0.7544 |
| S32 | 40 | 80 | 151.58 | 0.561 | 1.193 | 0 | 25716 | 25400 | 0.98772 |
| S33 | 40 | 70 | 129.78 | 0.578 | 1.111 | 0 | 21856 | 19900 | 0.910524 |
| S34 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S35 | 40 | 70 | 140.89 | 0.578 | 1.111 | 0 | 24078 | 19900 | 0.826488 |
| S36 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S37 | 40 | 70 | 135.56 | 0.578 | 1.111 | 0 | 23011 | 19900 | 0.8648 |
| S38 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S39 | 40 | 70 | 146.67 | 0.578 | 1.111 | 0 | 25233 | 19900 | 0.788639 |
| S40 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S41 | 40 | 80 | 141.33 | 0.533 | 1.333 | 0 | 23667 | 19400 | 0.819718 |
| S42 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S43 | 40 | 80 | 154.67 | 0.533 | 1.333 | 0 | 26333 | 19400 | 0.736709 |
| S44 | 40 | 80 | 154.67 | 0.533 | 1.333 | 0 | 26333 | 25400 | 0.964557 |
| S45 | 40 | 80 | 146.67 | 0.533 | 1.333 | 0 | 24733 | 19400 | 0.784367 |
| S46 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S47 | 40 | 80 | 160.00 | 0.533 | 1.333 | 0 | 27400 | 19400 | 0.708029 |
| S48 | 40 | 80 | 160.00 | 0.533 | 1.333 | 0 | 27400 | 25400 | 0.927007 |
| S49 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S50 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S51 | 40 | 70 | 128.36 | 0.618 | 0.909 | 0 | 21573 | 19900 | 0.922461 |
| S52 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S53 | 40 | 70 | 125.45 | 0.618 | 0.909 | 0 | 20991 | 19900 | 0.948029 |
| S54 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S55 | 40 | 70 | 134.55 | 0.618 | 0.909 | 0 | 22809 | 19900 | 0.872459 |
| S56 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S57 | 40 | 80 | 128.73 | 0.582 | 1.091 | 0 | 21145 | 19400 | 0.917455 |
| S58 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S59 | 40 | 80 | 139.64 | 0.582 | 1.091 | 0 | 23327 | 19400 | 0.831645 |
| S60 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S61 | 40 | 80 | 134.55 | 0.582 | 1.091 | 0 | 22309 | 19400 | 0.869601 |
| S62 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S63 | 40 | 80 | 145.45 | 0.582 | 1.091 | 0 | 24491 | 19400 | 0.792131 |
| S64 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S65 | 60 | 70 | 165.53 | 0.979 | 1.106 | 0 | 28706 | 19600 | 0.682775 |
| S66 | 60 | 70 | 165.53 | 0.979 | 1.106 | 0 | 28706 | 25600 | 0.891788 |
| S67 | 60 | 70 | 176.60 | 0.979 | 1.106 | 0 | 30919 | 19600 | 0.633911 |
| S68 | 60 | 70 | 176.60 | 0.979 | 1.106 | 0 | 30919 | 25600 | 0.827966 |
| S69 | 60 | 70 | 175.32 | 0.979 | 1.106 | 0 | 30664 | 19600 | 0.63919 |
| S70 | 60 | 70 | 175.32 | 0.979 | 1.106 | 0 | 30664 | 25600 | 0.83486 |
| S71 | 60 | 70 | 186.38 | 0.979 | 1.106 | 0 | 32877 | 19600 | 0.596169 |
| S72 | 60 | 70 | 186.38 | 0.979 | 1.106 | 0 | 32877 | 25600 | 0.778669 |
| S73 | 60 | 80 | 176.60 | 0.936 | 1.319 | 0 | 30419 | 19100 | 0.627894 |
| S74 | 60 | 80 | 176.60 | 0.936 | 1.319 | 0 | 30419 | 25100 | 0.825138 |
| S75 | 60 | 80 | 189.79 | 0.936 | 1.319 | 0 | 33057 | 19100 | 0.577782 |
| S76 | 60 | 80 | 189.79 | 0.936 | 1.319 | 0 | 33057 | 25100 | 0.759284 |
| S77 | 60 | 80 | 185.96 | 0.936 | 1.319 | 0 | 32291 | 19100 | 0.591487 |
| S78 | 60 | 80 | 185.96 | 0.936 | 1.319 | 0 | 32291 | 25100 | 0.777295 |
| S79 | 60 | 80 | 199.15 | 0.936 | 1.319 | 0 | 34930 | 19100 | 0.546811 |
| S80 | 60 | 80 | 199.15 | 0.936 | 1.319 | 0 | 34930 | 25100 | 0.718584 |
| S81 | 60 | 70 | 155.44 | 1.018 | 0.912 | 0 | 26688 | 19600 | 0.73442 |
| S82 | 60 | 70 | 155.44 | 1.018 | 0.912 | 0 | 26688 | 25600 | 0.959243 |
| S83 | 60 | 70 | 164.56 | 1.018 | 0.912 | 0 | 28512 | 19600 | 0.687423 |
| S84 | 60 | 70 | 164.56 | 1.018 | 0.912 | 0 | 28512 | 25600 | 0.897859 |
| S85 | 60 | 70 | 165.61 | 1.018 | 0.912 | 0 | 28723 | 19600 | 0.682385 |
| S86 | 60 | 70 | 165.61 | 1.018 | 0.912 | 0 | 28723 | 25600 | 0.891278 |
| S87 | 60 | 70 | 174.74 | 1.018 | 0.912 | 0 | 30547 | 19600 | 0.641626 |
| S88 | 60 | 70 | 174.74 | 1.018 | 0.912 | 0 | 30547 | 25600 | 0.838043 |
| S89 | 60 | 80 | 164.56 | 0.982 | 1.088 | 0 | 28012 | 19100 | 0.681844 |
| S90 | 60 | 80 | 164.56 | 0.982 | 1.088 | 0 | 28012 | 25100 | 0.896036 |
| S91 | 60 | 80 | 175.44 | 0.982 | 1.088 | 0 | 30188 | 19100 | 0.632708 |
| S92 | 60 | 80 | 175.44 | 0.982 | 1.088 | 0 | 30188 | 25100 | 0.831464 |
| S93 | 60 | 80 | 174.39 | 0.982 | 1.088 | 0 | 29977 | 19100 | 0.637151 |
| S94 | 60 | 80 | 174.39 | 0.982 | 1.088 | 0 | 29977 | 25100 | 0.837303 |
| S95 | 60 | 80 | 185.26 | 0.982 | 1.088 | 0 | 32153 | 19100 | 0.594042 |
| S96 | 60 | 80 | 185.26 | 0.982 | 1.088 | 0 | 32153 | 25100 | 0.780651 |
| S97 | 60 | 70 | 154.22 | 1.022 | 0.889 | 0 | 26444 | 19600 | 0.741176 |
| S98 | 60 | 70 | 154.22 | 1.022 | 0.889 | 0 | 26444 | 25600 | 0.968067 |
| S99 | 60 | 70 | 163.11 | 1.022 | 0.889 | 0 | 28222 | 19600 | 0.694488 |
| S100 | 60 | 70 | 163.11 | 1.022 | 0.889 | 0 | 28222 | 25600 | 0.907087 |
| S101 | 60 | 70 | 164.44 | 1.022 | 0.889 | 0 | 28489 | 19600 | 0.687988 |
| S102 | 60 | 70 | 164.44 | 1.022 | 0.889 | 0 | 28489 | 25600 | 0.898596 |
| S103 | 60 | 70 | 173.33 | 1.022 | 0.889 | 0 | 30267 | 19600 | 0.647577 |

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|---|---|---|---|---|---|---|---|---|---|
| S104 | 60 | 70 | 173.33 | 1.022 | 0.889 | 0 | 30267 | 25600 | 0.845815 |
| S105 | 60 | 80 | 165.78 | 0.978 | 1.111 | 0 | 28256 | 19100 | 0.675973 |
| S106 | 60 | 80 | 165.78 | 0.978 | 1.111 | 0 | 28256 | 25100 | 0.888321 |
| S107 | 60 | 80 | 176.89 | 0.978 | 1.111 | 0 | 30478 | 19100 | 0.626686 |
| S108 | 60 | 80 | 176.89 | 0.978 | 1.111 | 0 | 30478 | 25100 | 0.823551 |
| S109 | 60 | 80 | 175.56 | 0.978 | 1.111 | 0 | 30211 | 19100 | 0.632218 |
| S110 | 60 | 80 | 175.56 | 0.978 | 1.111 | 0 | 30211 | 25100 | 0.83082 |
| S111 | 60 | 80 | 186.67 | 0.978 | 1.111 | 0 | 32433 | 19100 | 0.5889 |
| S112 | 60 | 80 | 186.67 | 0.978 | 1.111 | 0 | 32433 | 25100 | 0.773895 |
| S113 | 60 | 70 | 145.82 | 1.055 | 0.727 | 0 | 24764 | 19600 | 0.791483 |
| S114 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S115 | 60 | 70 | 153.09 | 1.055 | 0.727 | 0 | 26218 | 19600 | 0.747573 |
| S116 | 60 | 70 | 153.09 | 1.055 | 0.727 | 0 | 26218 | 25600 | 0.976422 |
| S117 | 60 | 70 | 156.36 | 1.055 | 0.727 | 0 | 26873 | 19600 | 0.729364 |
| S118 | 60 | 70 | 156.36 | 1.055 | 0.727 | 0 | 26873 | 25600 | 0.952639 |
| S119 | 60 | 70 | 163.64 | 1.055 | 0.727 | 0 | 28327 | 19600 | 0.691913 |
| S120 | 60 | 70 | 163.64 | 1.055 | 0.727 | 0 | 28327 | 25600 | 0.903723 |
| S121 | 60 | 80 | 155.27 | 1.018 | 0.909 | 0 | 26155 | 19100 | 0.730275 |
| S122 | 60 | 80 | 155.27 | 1.018 | 0.909 | 0 | 26155 | 25100 | 0.95968 |
| S123 | 60 | 80 | 164.36 | 1.018 | 0.909 | 0 | 27973 | 19100 | 0.682808 |
| S124 | 60 | 80 | 164.36 | 1.018 | 0.909 | 0 | 27973 | 25100 | 0.897303 |
| S125 | 60 | 80 | 165.45 | 1.018 | 0.909 | 0 | 28191 | 19100 | 0.677523 |
| S126 | 60 | 80 | 165.45 | 1.018 | 0.909 | 0 | 28191 | 25100 | 0.890358 |
| S127 | 60 | 80 | 174.55 | 1.018 | 0.909 | 0 | 30009 | 19100 | 0.636474 |
| S128 | 60 | 80 | 174.55 | 1.018 | 0.909 | 0 | 30009 | 25100 | 0.836413 |
| S129 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S130 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S131 | 40 | 70 | 130.00 | 0.273 | 1.318 | 0 | 21900 | 19900 | 0.908676 |
| S132 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S133 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S134 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S135 | 40 | 70 | 132.73 | 0.273 | 1.318 | 0 | 22445 | 19900 | 0.886594 |
| S136 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S137 | 40 | 80 | 124.55 | 0.182 | 1.545 | 0 | 20309 | 19400 | 0.955237 |
| S138 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S139 | 40 | 80 | 140.00 | 0.182 | 1.545 | 0 | 23400 | 19400 | 0.82906 |
| S140 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S141 | 40 | 80 | 126.36 | 0.182 | 1.545 | 0 | 20673 | 19400 | 0.938434 |
| S142 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S143 | 40 | 80 | 141.82 | 0.182 | 1.545 | 0 | 23764 | 19400 | 0.816373 |
| S144 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S145 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S146 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S147 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S148 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S149 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S150 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S151 | 40 | 70 | 122.96 | 0.370 | 1.074 | 0 | 20493 | 19900 | 0.971083 |
| S152 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S153 | 40 | 80 | 120.00 | 0.000 | 0.000 | 1 | 19400 | 19400 | 1 |
| S154 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S155 | 40 | 80 | 127.41 | 0.296 | 1.259 | 0 | 20881 | 19400 | 0.929053 |
| S156 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S157 | 40 | 80 | 120.00 | 0.000 | 0.000 | 1 | 19400 | 19400 | 1 |
| S158 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S159 | 40 | 80 | 130.37 | 0.296 | 1.259 | 0 | 21474 | 19400 | 0.903415 |
| S160 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S161 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S162 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S163 | 40 | 70 | 127.00 | 0.300 | 1.250 | 0 | 21300 | 19900 | 0.934272 |
| S164 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S165 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S166 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S167 | 40 | 70 | 130.00 | 0.300 | 1.250 | 0 | 21900 | 19900 | 0.908676 |
| S168 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S169 | 40 | 80 | 123.00 | 0.200 | 1.500 | 0 | 20000 | 19400 | 0.97 |
| S170 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S171 | 40 | 80 | 138.00 | 0.200 | 1.500 | 0 | 23000 | 19400 | 0.843478 |
| S172 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S173 | 40 | 80 | 125.00 | 0.200 | 1.500 | 0 | 20400 | 19400 | 0.95098 |
| S174 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S175 | 40 | 80 | 140.00 | 0.200 | 1.500 | 0 | 23400 | 19400 | 0.82906 |
| S176 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S177 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S178 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S179 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S180 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S181 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S182 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S183 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S184 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S185 | 40 | 80 | 120.00 | 0.000 | 0.000 | 1 | 19400 | 19400 | 1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| S186 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S187 | 40 | 80 | 124.80 | 0.320 | 1.200 | 0 | 20360 | 19400 | 0.952849 |
| S188 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S189 | 40 | 80 | 120.00 | 0.000 | 0.000 | 1 | 19400 | 19400 | 1 |
| S190 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S191 | 40 | 80 | 128.00 | 0.320 | 1.200 | 0 | 21000 | 19400 | 0.92381 |
| S192 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S193 | 60 | 70 | 148.18 | 0.727 | 1.182 | 0 | 25236 | 19600 | 0.776657 |
| S194 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S195 | 60 | 70 | 160.00 | 0.727 | 1.182 | 0 | 27600 | 19600 | 0.710145 |
| S196 | 60 | 70 | 160.00 | 0.727 | 1.182 | 0 | 27600 | 25600 | 0.927536 |
| S197 | 60 | 70 | 155.45 | 0.727 | 1.182 | 0 | 26691 | 19600 | 0.734332 |
| S198 | 60 | 70 | 155.45 | 0.727 | 1.182 | 0 | 26691 | 25600 | 0.959128 |
| S199 | 60 | 70 | 167.27 | 0.727 | 1.182 | 0 | 29055 | 19600 | 0.674593 |
| S200 | 60 | 70 | 167.27 | 0.727 | 1.182 | 0 | 29055 | 25600 | 0.881101 |
| S201 | 60 | 80 | 155.91 | 0.636 | 1.409 | 0 | 26282 | 19100 | 0.726738 |
| S202 | 60 | 80 | 155.91 | 0.636 | 1.409 | 0 | 26282 | 25100 | 0.955033 |
| S203 | 60 | 80 | 170.00 | 0.636 | 1.409 | 0 | 29100 | 19100 | 0.656357 |
| S204 | 60 | 80 | 170.00 | 0.636 | 1.409 | 0 | 29100 | 25100 | 0.862543 |
| S205 | 60 | 80 | 162.27 | 0.636 | 1.409 | 0 | 27555 | 19100 | 0.693171 |
| S206 | 60 | 80 | 162.27 | 0.636 | 1.409 | 0 | 27555 | 25100 | 0.91092 |
| S207 | 60 | 80 | 176.36 | 0.636 | 1.409 | 0 | 30373 | 19100 | 0.628854 |
| S208 | 60 | 80 | 176.36 | 0.636 | 1.409 | 0 | 30373 | 25100 | 0.826399 |
| S209 | 60 | 70 | 140.74 | 0.815 | 0.963 | 0 | 23748 | 19600 | 0.825328 |
| S210 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S211 | 60 | 70 | 150.37 | 0.815 | 0.963 | 0 | 25674 | 19600 | 0.763416 |
| S212 | 60 | 70 | 150.37 | 0.815 | 0.963 | 0 | 25674 | 25600 | 0.997115 |
| S213 | 60 | 70 | 148.89 | 0.815 | 0.963 | 0 | 25378 | 19600 | 0.772329 |
| S214 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S215 | 60 | 70 | 158.52 | 0.815 | 0.963 | 0 | 27304 | 19600 | 0.717851 |
| S216 | 60 | 70 | 158.52 | 0.815 | 0.963 | 0 | 27304 | 25600 | 0.937602 |
| S217 | 60 | 80 | 147.04 | 0.741 | 1.148 | 0 | 24507 | 19100 | 0.779356 |
| S218 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S219 | 60 | 80 | 158.52 | 0.741 | 1.148 | 0 | 26804 | 19100 | 0.712588 |
| S220 | 60 | 80 | 158.52 | 0.741 | 1.148 | 0 | 26804 | 25100 | 0.936438 |
| S221 | 60 | 80 | 154.44 | 0.741 | 1.148 | 0 | 25989 | 19100 | 0.734929 |
| S222 | 60 | 80 | 154.44 | 0.741 | 1.148 | 0 | 25989 | 25100 | 0.965797 |
| S223 | 60 | 80 | 165.93 | 0.741 | 1.148 | 0 | 28285 | 19100 | 0.675265 |
| S224 | 60 | 80 | 165.93 | 0.741 | 1.148 | 0 | 28285 | 25100 | 0.88739 |
| S225 | 60 | 70 | 142.00 | 0.800 | 1.000 | 0 | 24000 | 19600 | 0.816667 |
| S226 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S227 | 60 | 70 | 152.00 | 0.800 | 1.000 | 0 | 26000 | 19600 | 0.753846 |
| S228 | 60 | 70 | 152.00 | 0.800 | 1.000 | 0 | 26000 | 25600 | 0.984615 |
| S229 | 60 | 70 | 150.00 | 0.800 | 1.000 | 0 | 25600 | 19600 | 0.765625 |
| S230 | 60 | 70 | 150.00 | 0.800 | 1.000 | 0 | 25600 | 25600 | 1 |
| S231 | 60 | 70 | 160.00 | 0.800 | 1.000 | 0 | 27600 | 19600 | 0.710145 |
| S232 | 60 | 70 | 160.00 | 0.800 | 1.000 | 0 | 27600 | 25600 | 0.927536 |
| S233 | 60 | 80 | 150.50 | 0.700 | 1.250 | 0 | 25200 | 19100 | 0.757937 |
| S234 | 60 | 80 | 150.50 | 0.700 | 1.250 | 0 | 25200 | 25100 | 0.996032 |
| S235 | 60 | 80 | 163.00 | 0.700 | 1.250 | 0 | 27700 | 19100 | 0.689531 |
| S236 | 60 | 80 | 163.00 | 0.700 | 1.250 | 0 | 27700 | 25100 | 0.906137 |
| S237 | 60 | 80 | 157.50 | 0.700 | 1.250 | 0 | 26600 | 19100 | 0.718045 |
| S238 | 60 | 80 | 157.50 | 0.700 | 1.250 | 0 | 26600 | 25100 | 0.943609 |
| S239 | 60 | 80 | 170.00 | 0.700 | 1.250 | 0 | 29100 | 19100 | 0.656357 |
| S240 | 60 | 80 | 170.00 | 0.700 | 1.250 | 0 | 29100 | 25100 | 0.862543 |
| S241 | 60 | 70 | 135.20 | 0.880 | 0.800 | 0 | 22640 | 19600 | 0.865724 |
| S242 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S243 | 60 | 70 | 143.20 | 0.880 | 0.800 | 0 | 24240 | 19600 | 0.808581 |
| S244 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S245 | 60 | 70 | 144.00 | 0.880 | 0.800 | 0 | 24400 | 19600 | 0.803279 |
| S246 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S247 | 60 | 70 | 152.00 | 0.880 | 0.800 | 0 | 26000 | 19600 | 0.753846 |
| S248 | 60 | 70 | 152.00 | 0.880 | 0.800 | 0 | 26000 | 25600 | 0.984615 |
| S249 | 60 | 80 | 142.00 | 0.800 | 1.000 | 0 | 23500 | 19100 | 0.812766 |
| S250 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S251 | 60 | 80 | 152.00 | 0.800 | 1.000 | 0 | 25500 | 19100 | 0.74902 |
| S252 | 60 | 80 | 152.00 | 0.800 | 1.000 | 0 | 25500 | 25100 | 0.984314 |
| S253 | 60 | 80 | 150.00 | 0.800 | 1.000 | 0 | 25100 | 19100 | 0.760956 |
| S254 | 60 | 80 | 150.00 | 0.800 | 1.000 | 0 | 25100 | 25100 | 1 |
| S255 | 60 | 80 | 160.00 | 0.800 | 1.000 | 0 | 27100 | 19100 | 0.704797 |
| S256 | 60 | 80 | 160.00 | 0.800 | 1.000 | 0 | 27100 | 25100 | 0.926199 |
| S257 | 40 | 70 | 122.92 | 0.361 | 1.292 | 0 | 20483 | 19900 | 0.971522 |
| S258 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S259 | 40 | 70 | 135.83 | 0.361 | 1.292 | 0 | 23067 | 19900 | 0.862717 |
| S260 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S261 | 40 | 70 | 126.53 | 0.361 | 1.292 | 0 | 21206 | 19900 | 0.938433 |
| S262 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S263 | 40 | 70 | 139.44 | 0.361 | 1.292 | 0 | 23789 | 19900 | 0.836525 |
| S264 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S265 | 40 | 80 | 135.00 | 0.333 | 1.500 | 0 | 22400 | 19400 | 0.866071 |
| S266 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S267 | 40 | 80 | 150.00 | 0.333 | 1.500 | 0 | 25400 | 19400 | 0.76378 |

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|---|---|---|---|---|---|---|---|---|---|
| S268 | 40 | 80 | 150.00 | 0.333 | 1.500 | 0 | 25400 | 25400 | 1 |
| S269 | 40 | 80 | 138.33 | 0.333 | 1.500 | 0 | 23067 | 19400 | 0.84104 |
| S270 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S271 | 40 | 80 | 153.33 | 0.333 | 1.500 | 0 | 26067 | 19400 | 0.744246 |
| S272 | 40 | 80 | 153.33 | 0.333 | 1.500 | 0 | 26067 | 25400 | 0.974425 |
| S273 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S274 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S275 | 40 | 70 | 120.69 | 0.391 | 1.069 | 0 | 20038 | 19900 | 0.993117 |
| S276 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S277 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S278 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S279 | 40 | 70 | 124.60 | 0.391 | 1.069 | 0 | 20820 | 19900 | 0.955833 |
| S280 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S281 | 40 | 80 | 120.00 | 0.000 | 0.000 | 1 | 19400 | 19400 | 1 |
| S282 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S283 | 40 | 80 | 132.41 | 0.368 | 1.241 | 0 | 21883 | 19400 | 0.886543 |
| S284 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S285 | 40 | 80 | 123.68 | 0.368 | 1.241 | 0 | 20136 | 19400 | 0.963466 |
| S286 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S287 | 40 | 80 | 136.09 | 0.368 | 1.241 | 0 | 22618 | 19400 | 0.857709 |
| S288 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S289 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S290 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S291 | 40 | 70 | 130.57 | 0.371 | 1.214 | 0 | 22014 | 19900 | 0.903958 |
| S292 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S293 | 40 | 70 | 122.14 | 0.371 | 1.214 | 0 | 20329 | 19900 | 0.978918 |
| S294 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S295 | 40 | 70 | 134.29 | 0.371 | 1.214 | 0 | 22757 | 19900 | 0.874451 |
| S296 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S297 | 40 | 80 | 130.86 | 0.343 | 1.429 | 0 | 21571 | 19400 | 0.899338 |
| S298 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S299 | 40 | 80 | 145.14 | 0.343 | 1.429 | 0 | 24429 | 19400 | 0.794152 |
| S300 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S301 | 40 | 80 | 134.29 | 0.343 | 1.429 | 0 | 22257 | 19400 | 0.87163 |
| S302 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S303 | 40 | 80 | 148.57 | 0.343 | 1.429 | 0 | 25114 | 19400 | 0.772469 |
| S304 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S305 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S306 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S307 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S308 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S309 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S310 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S311 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S312 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S313 | 40 | 80 | 120.00 | 0.000 | 0.000 | 1 | 19400 | 19400 | 1 |
| S314 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S315 | 40 | 80 | 128.00 | 0.376 | 1.176 | 0 | 21000 | 19400 | 0.92381 |
| S316 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S317 | 40 | 80 | 120.00 | 0.000 | 0.000 | 1 | 19400 | 19400 | 1 |
| S318 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S319 | 40 | 80 | 131.76 | 0.376 | 1.176 | 0 | 21753 | 19400 | 0.891833 |
| S320 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S321 | 60 | 70 | 142.08 | 0.639 | 1.208 | 0 | 24017 | 19600 | 0.8161 |
| S322 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S323 | 60 | 70 | 154.17 | 0.639 | 1.208 | 0 | 26433 | 19600 | 0.741488 |
| S324 | 60 | 70 | 154.17 | 0.639 | 1.208 | 0 | 26433 | 25600 | 0.968474 |
| S325 | 60 | 70 | 148.47 | 0.639 | 1.208 | 0 | 25294 | 19600 | 0.774874 |
| S326 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S327 | 60 | 70 | 160.56 | 0.639 | 1.208 | 0 | 27711 | 19600 | 0.707298 |
| S328 | 60 | 70 | 160.56 | 0.639 | 1.208 | 0 | 27711 | 25600 | 0.923817 |
| S329 | 60 | 80 | 154.17 | 0.611 | 1.417 | 0 | 25933 | 19100 | 0.736504 |
| S330 | 60 | 80 | 154.17 | 0.611 | 1.417 | 0 | 25933 | 25100 | 0.967866 |
| S331 | 60 | 80 | 168.33 | 0.611 | 1.417 | 0 | 28767 | 19100 | 0.663963 |
| S332 | 60 | 80 | 168.33 | 0.611 | 1.417 | 0 | 28767 | 25100 | 0.872538 |
| S333 | 60 | 80 | 160.28 | 0.611 | 1.417 | 0 | 27156 | 19100 | 0.703355 |
| S334 | 60 | 80 | 160.28 | 0.611 | 1.417 | 0 | 27156 | 25100 | 0.924304 |
| S335 | 60 | 80 | 174.44 | 0.611 | 1.417 | 0 | 29989 | 19100 | 0.636903 |
| S336 | 60 | 80 | 174.44 | 0.611 | 1.417 | 0 | 29989 | 25100 | 0.836977 |
| S337 | 60 | 70 | 130.00 | 0.667 | 1.000 | 0 | 21600 | 19600 | 0.907407 |
| S338 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S339 | 60 | 70 | 140.00 | 0.667 | 1.000 | 0 | 23600 | 19600 | 0.830508 |
| S340 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S341 | 60 | 70 | 136.67 | 0.667 | 1.000 | 0 | 22933 | 19600 | 0.854651 |
| S342 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S343 | 60 | 70 | 146.67 | 0.667 | 1.000 | 0 | 24933 | 19600 | 0.786096 |
| S344 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S345 | 60 | 80 | 140.00 | 0.644 | 1.172 | 0 | 23100 | 19100 | 0.82684 |
| S346 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S347 | 60 | 80 | 151.72 | 0.644 | 1.172 | 0 | 25445 | 19100 | 0.750644 |
| S348 | 60 | 80 | 151.72 | 0.644 | 1.172 | 0 | 25445 | 25100 | 0.986448 |
| S349 | 60 | 80 | 146.44 | 0.644 | 1.172 | 0 | 24387 | 19100 | 0.783193 |

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|---|---|---|---|---|---|---|---|---|---|
| S350 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S351 | 60 | 80 | 158.16 | 0.644 | 1.172 | 0 | 26732 | 19100 | 0.714495 |
| S352 | 60 | 80 | 158.16 | 0.644 | 1.172 | 0 | 26732 | 25100 | 0.938943 |
| S353 | 60 | 70 | 134.14 | 0.657 | 1.071 | 0 | 22429 | 19600 | 0.873885 |
| S354 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S355 | 60 | 70 | 144.86 | 0.657 | 1.071 | 0 | 24571 | 19600 | 0.797674 |
| S356 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S357 | 60 | 70 | 140.71 | 0.657 | 1.071 | 0 | 23743 | 19600 | 0.825511 |
| S358 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S359 | 60 | 70 | 151.43 | 0.657 | 1.071 | 0 | 25886 | 19600 | 0.757174 |
| S360 | 60 | 70 | 151.43 | 0.657 | 1.071 | 0 | 25886 | 25600 | 0.988962 |
| S361 | 60 | 80 | 146.57 | 0.629 | 1.286 | 0 | 24414 | 19100 | 0.782329 |
| S362 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S363 | 60 | 80 | 159.43 | 0.629 | 1.286 | 0 | 26986 | 19100 | 0.707782 |
| S364 | 60 | 80 | 159.43 | 0.629 | 1.286 | 0 | 26986 | 25100 | 0.930122 |
| S365 | 60 | 80 | 152.86 | 0.629 | 1.286 | 0 | 25671 | 19100 | 0.744018 |
| S366 | 60 | 80 | 152.86 | 0.629 | 1.286 | 0 | 25671 | 25100 | 0.977741 |
| S367 | 60 | 80 | 165.71 | 0.629 | 1.286 | 0 | 28243 | 19100 | 0.676277 |
| S368 | 60 | 80 | 165.71 | 0.629 | 1.286 | 0 | 28243 | 25100 | 0.88872 |
| S369 | 60 | 70 | 123.18 | 0.682 | 0.882 | 0 | 20235 | 19600 | 0.968605 |
| S370 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S371 | 60 | 70 | 132.00 | 0.682 | 0.882 | 0 | 22000 | 19600 | 0.890909 |
| S372 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S373 | 60 | 70 | 130.00 | 0.682 | 0.882 | 0 | 21600 | 19600 | 0.907407 |
| S374 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S375 | 60 | 70 | 138.82 | 0.682 | 0.882 | 0 | 23365 | 19600 | 0.838872 |
| S376 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S377 | 60 | 80 | 133.41 | 0.659 | 1.059 | 0 | 21782 | 19100 | 0.876857 |
| S378 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S379 | 60 | 80 | 144.00 | 0.659 | 1.059 | 0 | 23900 | 19100 | 0.799163 |
| S380 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S381 | 60 | 80 | 140.00 | 0.659 | 1.059 | 0 | 23100 | 19100 | 0.82684 |
| S382 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S383 | 60 | 80 | 150.59 | 0.659 | 1.059 | 0 | 25218 | 19100 | 0.757406 |
| S384 | 60 | 80 | 150.59 | 0.659 | 1.059 | 0 | 25218 | 25100 | 0.995335 |
| S385 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S386 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S387 | 40 | 70 | 123.48 | 0.174 | 1.348 | 0 | 20596 | 19900 | 0.966223 |
| S388 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S389 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S390 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S391 | 40 | 70 | 125.22 | 0.174 | 1.348 | 0 | 20943 | 19900 | 0.950176 |
| S392 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S393 | 40 | 80 | 120.00 | 0.000 | 0.000 | 1 | 19400 | 19400 | 1 |
| S394 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S395 | 40 | 80 | 135.65 | 0.116 | 1.565 | 0 | 22530 | 19400 | 0.861058 |
| S396 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S397 | 40 | 80 | 121.16 | 0.116 | 1.565 | 0 | 19632 | 19400 | 0.988188 |
| S398 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S399 | 40 | 80 | 136.81 | 0.116 | 1.565 | 0 | 22762 | 19400 | 0.852286 |
| S400 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S401 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S402 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S403 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S404 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S405 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S406 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S407 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S408 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S409 | 40 | 80 | 120.00 | 0.000 | 0.000 | 1 | 19400 | 19400 | 1 |
| S410 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S411 | 40 | 80 | 120.00 | 0.000 | 0.000 | 1 | 19400 | 19400 | 1 |
| S412 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S413 | 40 | 80 | 120.00 | 0.000 | 0.000 | 1 | 19400 | 19400 | 1 |
| S414 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S415 | 40 | 80 | 121.90 | 0.190 | 1.286 | 0 | 19781 | 19400 | 0.980741 |
| S416 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S417 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S418 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S419 | 40 | 70 | 121.23 | 0.185 | 1.308 | 0 | 20146 | 19900 | 0.987782 |
| S420 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S421 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S422 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S423 | 40 | 70 | 123.08 | 0.185 | 1.308 | 0 | 20515 | 19900 | 0.970004 |
| S424 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S425 | 40 | 80 | 120.00 | 0.000 | 0.000 | 1 | 19400 | 19400 | 1 |
| S426 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S427 | 40 | 80 | 134.15 | 0.123 | 1.538 | 0 | 22231 | 19400 | 0.872664 |
| S428 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S429 | 40 | 80 | 120.00 | 0.000 | 0.000 | 1 | 19400 | 19400 | 1 |
| S430 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S431 | 40 | 80 | 135.38 | 0.123 | 1.538 | 0 | 22477 | 19400 | 0.863107 |

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|---|---|---|---|---|---|---|---|---|---|
| S432 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S433 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S434 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S435 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S436 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S437 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S438 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S439 | 40 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19900 | 19900 | 1 |
| S440 | 40 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25900 | 25900 | 1 |
| S441 | 40 | 80 | 120.00 | 0.000 | 0.000 | 1 | 19400 | 19400 | 1 |
| S442 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S443 | 40 | 80 | 120.00 | 0.000 | 0.000 | 1 | 19400 | 19400 | 1 |
| S444 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S445 | 40 | 80 | 120.00 | 0.000 | 0.000 | 1 | 19400 | 19400 | 1 |
| S446 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S447 | 40 | 80 | 120.00 | 0.000 | 0.000 | 1 | 19400 | 19400 | 1 |
| S448 | 40 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25400 | 25400 | 1 |
| S449 | 60 | 70 | 130.00 | 0.464 | 1.261 | 0 | 21600 | 19600 | 0.907407 |
| S450 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S451 | 60 | 70 | 142.61 | 0.464 | 1.261 | 0 | 24122 | 19600 | 0.812545 |
| S452 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S453 | 60 | 70 | 134.64 | 0.464 | 1.261 | 0 | 22528 | 19600 | 0.870046 |
| S454 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S455 | 60 | 70 | 147.25 | 0.464 | 1.261 | 0 | 25049 | 19600 | 0.782458 |
| S456 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S457 | 60 | 80 | 140.00 | 0.406 | 1.478 | 0 | 23100 | 19100 | 0.82684 |
| S458 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S459 | 60 | 80 | 154.78 | 0.406 | 1.478 | 0 | 26057 | 19100 | 0.733022 |
| S460 | 60 | 80 | 154.78 | 0.406 | 1.478 | 0 | 26057 | 25100 | 0.963291 |
| S461 | 60 | 80 | 144.06 | 0.406 | 1.478 | 0 | 23912 | 19100 | 0.798776 |
| S462 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S463 | 60 | 80 | 158.84 | 0.406 | 1.478 | 0 | 26868 | 19100 | 0.71088 |
| S464 | 60 | 80 | 158.84 | 0.406 | 1.478 | 0 | 26868 | 25100 | 0.934193 |
| S465 | 60 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19600 | 19600 | 1 |
| S466 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S467 | 60 | 70 | 130.00 | 0.524 | 1.036 | 0 | 21600 | 19600 | 0.907407 |
| S468 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S469 | 60 | 70 | 124.88 | 0.524 | 1.036 | 0 | 20576 | 19600 | 0.952557 |
| S470 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S471 | 60 | 70 | 135.24 | 0.524 | 1.036 | 0 | 22648 | 19600 | 0.865433 |
| S472 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |

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|---|---|---|---|---|---|---|---|---|---|
| S473 | 60 | 80 | 127.86 | 0.476 | 1.214 | 0 | 20671 | 19100 | 0.923981 |
| S474 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S475 | 60 | 80 | 140.00 | 0.476 | 1.214 | 0 | 23100 | 19100 | 0.82684 |
| S476 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S477 | 60 | 80 | 132.62 | 0.476 | 1.214 | 0 | 21624 | 19100 | 0.883286 |
| S478 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S479 | 60 | 80 | 144.76 | 0.476 | 1.214 | 0 | 24052 | 19100 | 0.7941 |
| S480 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S481 | 60 | 70 | 125.08 | 0.492 | 1.154 | 0 | 20615 | 19600 | 0.950746 |
| S482 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S483 | 60 | 70 | 136.62 | 0.492 | 1.154 | 0 | 22923 | 19600 | 0.855034 |
| S484 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S485 | 60 | 70 | 130.00 | 0.492 | 1.154 | 0 | 21600 | 19600 | 0.907407 |
| S486 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S487 | 60 | 70 | 141.54 | 0.492 | 1.154 | 0 | 23908 | 19600 | 0.81982 |
| S488 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S489 | 60 | 80 | 135.69 | 0.431 | 1.385 | 0 | 22238 | 19100 | 0.858872 |
| S490 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S491 | 60 | 80 | 149.54 | 0.431 | 1.385 | 0 | 25008 | 19100 | 0.763765 |
| S492 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S493 | 60 | 80 | 140.00 | 0.431 | 1.385 | 0 | 23100 | 19100 | 0.82684 |
| S494 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S495 | 60 | 80 | 153.85 | 0.431 | 1.385 | 0 | 25869 | 19100 | 0.738329 |
| S496 | 60 | 80 | 153.85 | 0.431 | 1.385 | 0 | 25869 | 25100 | 0.970265 |
| S497 | 60 | 70 | 120.00 | 0.000 | 0.000 | 1 | 19600 | 19600 | 1 |
| S498 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S499 | 60 | 70 | 124.50 | 0.550 | 0.938 | 0 | 20500 | 19600 | 0.956098 |
| S500 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S501 | 60 | 70 | 120.63 | 0.550 | 0.938 | 0 | 19725 | 19600 | 0.993663 |
| S502 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S503 | 60 | 70 | 130.00 | 0.550 | 0.938 | 0 | 21600 | 19600 | 0.907407 |
| S504 | 60 | 70 | 150.00 | 0.000 | 0.000 | 1 | 25600 | 25600 | 1 |
| S505 | 60 | 80 | 123.75 | 0.500 | 1.125 | 0 | 19850 | 19100 | 0.962217 |
| S506 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S507 | 60 | 80 | 135.00 | 0.500 | 1.125 | 0 | 22100 | 19100 | 0.864253 |
| S508 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S509 | 60 | 80 | 128.75 | 0.500 | 1.125 | 0 | 20850 | 19100 | 0.916067 |
| S510 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |
| S511 | 60 | 80 | 140.00 | 0.500 | 1.125 | 0 | 23100 | 19100 | 0.82684 |
| S512 | 60 | 80 | 150.00 | 0.000 | 0.000 | 1 | 25100 | 25100 | 1 |