**1. Introduction**

Wireless Sensor Network is briefly known as WSN having a wide range of applications in modern-day technology of day-to-day life. WSN is a tiny device having sensing, communicative, processing, and storage units with power back up by non-rechargeable battery. Due to its tiny and compact design, it can be deployed in any place whichever suitable either mount or roam. Due to sensing and communicating ability it can be treated as an intellectual device in the different application areas of engineering. The WSN nodes are deployed in the target area to gather various types of important and related information and transfer that information to the sink node. Sink node is the controller communicative node used as a local server that connects to some other global or local robust network. Sink node act as an administrator node to all controlling sensor nodes. Nowadays this type of network is being used in a modern army, environmental monitoring, battlefield monitoring, body area network, intelligent household, etc.

Depending upon the moving nature of WSN, it may be classified into two types and those are static WSN and dynamic WSN. In the case of static WSN, the whole unit is mounted and fixed to a certain fixed point (co-ordinate regarding the sink node). In the case of dynamic WSN, the node is dynamic in nature, though the sink node is generally mounted to a fixed coordinate. Now depending upon the need and purpose the node is selected. In our experiment, we have used static nodes where the coordinate of the sink node as well as typical nodes are fixed and permanent.

In the case of a typical WSN design, the sensor node is deployed to cover the target area. The sensor node is appointed to sense the related data and transferred to the sink node may be directly or via another sensor node. Now in the case of our research, we have clustered the target area into a uniform cell. The cell structure may be trigonal, square or hexagonal in structure but not circular otherwise total area can’t be covered without any area uncovered as depicted in the figure.

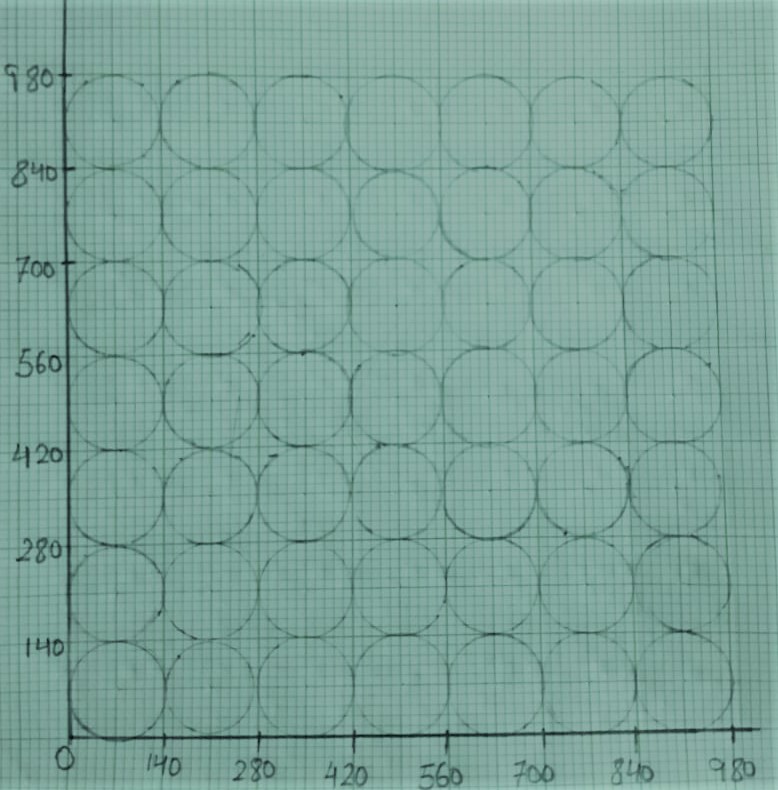


Fig1:

In our research work, we have taken an imaginary square structure to cover the whole target area to get the cell structure.

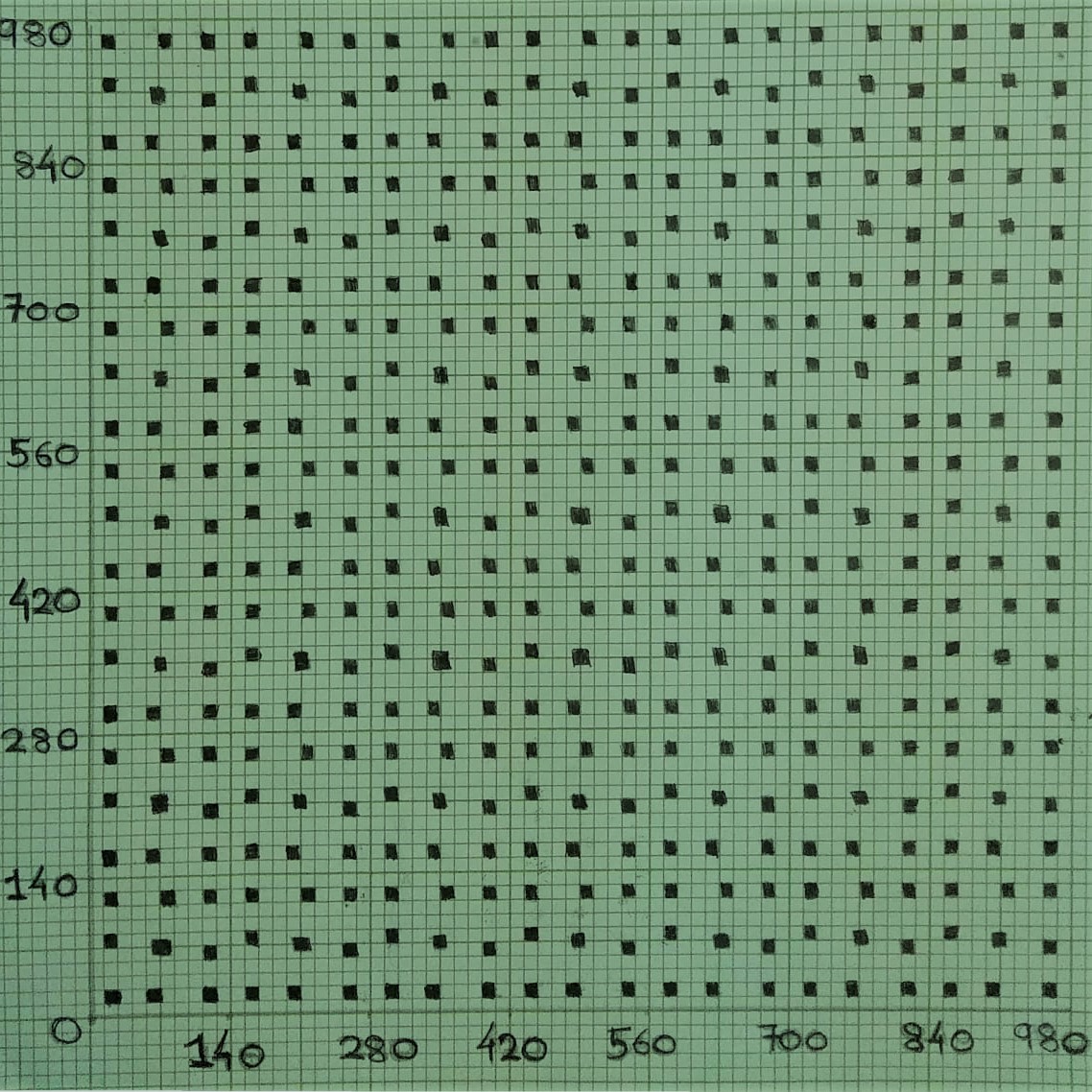


Fig 2

Each cell consists of more than one sensor node (denoted as N). The sink node (denoted as SN) acts as a control point as if the local server node. The main aim of the network is to transfer information from one node of a particular cell to another node of an adjacent cell so that, the total power consumption for that particular network is minimized. Each cell is considered as one cluster and each cluster having a sensor node active node which will continue the communication to an adjacent cluster. The active node of each cluster is called Cluster-Head (denoted as CH). The CH is connected with another CH and thus a network is established. The established network will persist until any CH becomes fully exhausted due to a shortage of power backup and after that, the exhausted CH will be replaced by another CH and so on until all cluster heads of the cluster become exhausted. Here two types of communication will take place i.e., inter-cluster communication (CH-CH communication) or Sink-Cluster communication (SN-CH communication).

Our research is based on, Optimization of consumed energy therefore we have used a special ACO algorithm (called ABACO algorithm) by which we can design an efficient network.

In the case of WSN building the energy required to become active for a certain time is a major concern in our research work.

In this paper we have worked with the following characteristics to make a network reliable should have:

**2. Related Work**

The efficiency of a WSN network can be increased by optimizing some factors or by introducing some techniques. We worked on power optimization, reliability enhancement, and the algorithm to increase its efficiency.

First talking about **power optimization** there is a lot of factors that come into action. Some of them are:

**Duty Cycle**: The duty cycle is an important parameter because it helps in increasing the lifetime of a network. Keeping a node in its active state when required and switching it off at the right time increases its lifetime which in turn increases the lifetime of the overall network.

**Rotation of CH**: Rotation of CH is another important aspect which can increase the overall energy of the network. Cluster heads are the nodes that transmit energy from its neighbouring nodes to the sink node and in doing so it loses quite an amount of energy compared to other nodes. So if we keep on using the same node as cluster head it may not exist too long so it is advisable to keep on changing the cluster head so the work can be distributed equally which increases the lifetime of the cluster heads and in turn lead to a long-lasting network.

**Energy Harvesting**: In this process, we actually use our surrounding to generate some extra energy for the nodes. For example, if we deploy our nodes on the ground we can use solar energy or radiofrequency or wind energy and if we deploy nodes on the water then we may use hydro energy for generating extra energy. So if we can generate extra energy from our surrounding it increases battery time and prolongs the lifetime of the network.

Second, we come to another important parameter that is **reliability optimization**.

The reliability of a network can be defined by how much actual data can be transmitted. Suppose there is 1MB of data that is to be transferred but due to some barriers the nodes could only transfer about 75 percent of data and rest data could not be transferred. So we say that the network is 75 percent reliable and we will aim to make it more reliable so that 100 percent data could be transferred. Some methods can be:

**Clustering:**We have to make sure that all the nodes are divided equally among the clusters and that each cluster head collects information from an equal number of nodes. Suppose a cluster head collects information from 10 nodes and on the other hand another cluster head collects information only from 2 nodes. In this case, the cluster head which collects information from 10 nodes can have some reliability issues because it had to transfer more information than the other head. It would be better if both the heads could divide the nodes equally among themselves.

**Avoiding Congestion:**Congestion is a serious problem which can reduce reliability to a great extent. Congestion can occur in two cases. The first case in which the nodes transmit their data to the cluster head. If all the nodes transmit at the same time or with very less interval of time then there may occur congestion at the cluster head which may result in loss of data. In 2nd case, the situation of congestion is the same but it occurs between the cluster heads and the sink nodes.

**Topology**: Sometimes topology (how have the network been deployed) can play a crucial role in increasing the lifetime and reliability of the network. In this paper, we have used three types of deployment strategies namely random, square and spiral so we could compare which layout could result in better performance compared to other layouts.

Coming to the third important factor which is the **ABACO** Algorithm

This algorithm is derived from the popular ACO Algorithm which is again derived from the movements of ants. Ants have to travel from one place to another in search of their food. So they have to search for the shortest path by which they can reach their destination as quickly as possible. So when they find the shortest path to remember the path they spread pheromone.

The same concept is applied in the ACO Algorithm. Now in ABACO we just introduce a binary concept means selecting and deselecting the path. The difference of the proposed algorithm and ACO is that there are two nodes assigned to each feature in the graph, one for selecting and the other for deselecting the corresponding feature. Based on the value of pheromone ants decide their next edge. In each iteration, all ants should visit all the features or paths, but can decide whether to select a path or not. It means that if the ants select the value 1 it means that the ants would traverse the path and if the ants select 0 then the path may not be the shortest one. This process of selecting and deselecting a path is repeated several times and for all ants to select the globally shortest path rather than a local best path.

Below is the methodology we have given a brief with an algorithm and flowchart of how this process works.

So based on the above methods or processes we can definitely increase the efficiency of the network but their also some more disadvantages which we should also revise to get the best outcome. After a thorough study, it can be concluded that there are various challenges of WSN like limited data processing ability due to lower processing speed, lower data transferring speed due to low bandwidth of the communicative unit, lower range of area coverage by the communicative device due to less powerful transmitting and receiving units, It also faces limited data storage problem due to its tiny size and last but not the least the WSN suffers from power backup problem again due to its size. Area coverage optimization and power consumption optimization is the main goal of the paper.

**3. Methodology**

In this paper, we have used a modified meta-heuristic algorithm (i.e., modified ACO algorithm) that has been used, for selecting the cluster head of the efficient WSN and getting the efficient network route.

Ant colony optimization is a cooperative algorithm inspired by the behaviour of real ant colonies as described above. When a source of food is found, ants lay some pheromone to mark the path. They choose their path in a very intelligent way concerning probabilities that depend on pheromone trails previously laid by the ants. The quantity of the laid pheromone depends upon the distance, quantity, and quality of the food source. This process is hence characterized by a positive feedback loop

Pseudo-code AND Flowchart for ABACO

|  |
| --- |
| **Step 1:** Initialize the parameters of ABACO, including the number of ants we want to deploy (m), the maximum number of iterations (max), the tuneable parameters α1, α2 and ρ, the initial level of pheromone p0 and the heuristic information η of all n features by assigning equal values to p and η.  **Step 2**: Randomly select a node within any cluster and select the rest 2(n-1) clusters ending to (n-1) features, follow the ACO rule (rule of conventional probability). Choosing number 1 of a feature means selecting that path, and number 0 means deselecting that path.    **Step 3**: If all paths have been traversed by each ant, then continue; otherwise go to step 2.  **Step 4:** Evaluate the path feature subsets using the trained classifier by testing the classification accuracy on the validation set.  **Step 5:** After evaporation of the laid pheromone, find the ant with the best path subset. It is the subset with the best path accuracy. Only permit this ant to deposit Pheromone on its traversed paths. If the maximum number of iteration max has not reached go back to step 2; otherwise, go to the next step.  **Step 6:** Search for the globally best path subset which produces the highest classification accuracy among all local best solutions.  Initialize all the initial parameters  Generate new ants  For each ant initialize or give a specific path and traverse it.  Evaluate all the paths and then select the best local and global sets of path.  Update p |
|  |
| Condition met? |

YES

NO

Return the best set

**Flowchart of the ABACO algorithm**

*Figure 3: The block diagram of the modified ACO algorithm.*

Update the amount of pheromone using global Update rule and update and compare with ANTsolution obtained by local update rule and choose the best one.

Termination condition?

Yes

No

*PANT(t)*

Find *ANTpopulation(global)*

Print Result

End

Update ANTsolution by local Update rule

rule

*Update ANT solutions*

Initialize *ANTpopulation*

*Initialize ANT solutions*

**Contribution:** Modification in ACO algorithm: At first the ANT solution is updated using local update rule and then the updated ANT solution is modified using global update rule and ultimately the ANT solution is compared with previous feasible solution and has taken the following strategies:

* 1. If both (before modification by global update rule and after modification by global update rule) solution is feasible then choose the ANT solution for which the nearest value of global optimum is achieved.
  2. If any one solution is infeasible then discard it and obtain the feasible ANT solution.
  3. If both (before modification by global update rule and after modification by global update rule) solution is infeasible then discard the ANT solution and find next ANT solution.

**4. Solution Methodology:**

In this paper, we have some steps through which the entire process of the network formation can be explained.

1.    **Indexing for Sensor Nodes**: The sensor nodes to be deployed should be indexed virtually just to denote or keep track of each sensor nodes before and after the deployment. This indexing process will also help to form the network in an efficient manner. The indexing has been proposed by the help of row and column number of the cell (as depicted in figure 2.). It also helps us to get the matrix of row and column number of the target area. The indexing is generally a sequential number.

a.     **Indexing before Deployment**: This is the indexing that is given to the sensor node before deployment which will help us just to keep track of the total number of sensor nodes to be deployed and to maintain the serial of sensor nodes.

b.    **Indexing after Deployment:**This type of indexing much more important because this indexing is given to the sensor nodes after deployment and by this indexing, the sensor node will be denoted until the sensor node becomes fully exhausted.

2. **Clustering:**Here clustering meansseparating target area into some uniform chunks. Here we aim to construct efficient cluster-cell. The structure of cluster cells has been chosen as a square. It can be proved (Katz 2008) that using square cluster-cell the target area can be covered properly and the cost can be energy consumption can be minimized. Here the term efficiently refers to the efficient and uniform coverage of target area with no gap between the neighboring clusters.

Column 1 (c1) Column 2 (c2)

(r2, c1)

(r2, c2)

Row 2 (r2)

(r1, c2)

(r1, c1)

Row 1 (r1)

Figure 4. Structure of cluster cell and their representation

4. **Deployment of WSN nodes** (different strategies):

A. **Random deployment of sensor nodes**: In case of random deployment the deployment is done randomly means the sensor nodes are deployed to the target area from a certain distance and speed and as it is very difficult to predict the position of sensor node so we have used this strategy. Certain numbers of nodes are deployed in the target area in a fixed amount of time and maintain a time interval but, without maintaining any fixed strategy. In the case of deployment of WSN nodes in some field this type of deployment can be considered.

 B. **S pattern deployment**: In this type of deployment deployment-ship follow the S-pattern movement at the time of deployment of sensor nodes. A fixed amount of deployment time and maintaining a time interval and the path is followed. Here the starting time and ending time of deployment are fixed and the deployment is done in between this (see figure no 5 to 7).

  C. **Spiral deployment**: In this type of deployment deployment-ship follow the Spiral-pattern movement at the time of deployment of sensor nodes (see figure no 5 to 7), other criteria are the same with previous deployment.

5. **Selection of a sensor node as cluster head**: The selection process has been done by the help of a meta-heuristic algorithm i.e., ACO algorithm. The selection of a sensor node as a cluster head (CH) is an important job towards the development of an efficient network configuration because with the help of the cluster head only the internal network is formed.

Here in this paper, the selection of the cluster head has been done by calculating the uniform distance between different nodes in a cluster maintaining the following conditions:

a) One cluster head has been selected from each cluster and the process has been done by the help of a meta-heuristic algorithm i.e., ACO algorithm.

b) After the full exhaustion of one cluster head, another sensor node is considered as an active cluster head and replaces the previous one.

c) The intermediate network will sustain for some time and thus it will give stability to the whole network to perform for a longer period and ultimately when all the sensor-nodes of a particular cluster will be exhausted the whole network will be down.

6. **WSN network configuration through modified ACO algorithm:**

Using ACO algorithm choosing the optimized path for the minimization of energy consumption for transmitting the data as well as receiving data: ACO algorithm is used to choose the optimized the path for the minimization of energy consumption for transmitting the data. The linear problem as described below:

 The energy consumption during successful data transmission between cluster head (CH) to cluster head (CH) and cluster head (CH) to sink node (SN) has been calculated and minimized using the below-maintained equations:

The energy consumption during successful data transmission between cluster head (CH) to cluster head (CH) and cluster head (CH) to sink node (SN) has been calculated and minimized using the below-maintained equations:

(1)

Subject to,

*d do*, for free-space propagation model and *d > do* for two- ray ground propagation model.

Where *do* is the threshold transmission distance.

Where,

(2)

(3)

(4)

(5)

(6)

(7)

(8)

(9)

(10)

= energy required for the transmitting data packets between two adjacent cluster head for the amplifier to maintain an acceptable signal-to-noise ratio in order to transfer data messages reliably.

= energy required for the transmitting data packets between sink node and cluster head for the amplifier to maintain an acceptable signal-to-noise ratio in order to transfer data messages reliably.

=Electronic energy degenerated during the transmission between two adjacent cluster heads.

=Electronic energy degenerated during the transmission between sink node and adjacent cluster head.

*Etransmission* = amount of energy used by each node at the time of transmitting data packets.

*Ereceiving* = energy used for receiving data packets.

Measurement of distance between two cluster heads is done using the following formula

*dxy*

Where (x1, y1) and (x2, y2) are coordinates of reference nodes and dxy is the distance measured between two adjacent cluster heads and the notation *dxy* and *d* are same.



Figure 5:

Figure 3. Basic block diagram of WSN communicating devices.

Now in terms of minimizing the total energy transmission and using the proposed ACO algorithm, the optimized path has been established as shown in Figure 5.The data used from Table 1. Now we have applied the coverage optimization for the targeted area and the corresponding coordinate of active cluster head node (Si,Pj: see equation 8-9) has been plotted and surprisingly it has been exactly matched with the coordinates of the first phase cluster head position already detected by the ACO algorithm. After getting an efficient path through the meta-heuristic algorithm i.e., ACO we tried for coverage optimization to cover maximum area and we have used DE-QPSO hybrid algorithm as the optimization technique. Here by maximizing the area coverage we can claim that our designed network is an efficient network with respect to minimization of energy consumption. Here comparison has been made between Coverage Ratio vs. Range [meter] as depicted in Figure 6.

**5. Numerical Result analysis**

In this section the energy minimization problem was solved using ACO. The proposed method was tested using the data of Table 1 using the ACO algorithm and obtained the optimized path for the network, which further may help us to form a robust routing protocol for minimizing energy consumption.

The following parameter values are used in the experiment for the simulating the system (Lande and Kawale 2016).

|  |  |  |  |
| --- | --- | --- | --- |
| Parameters | values | Parameters | values |
| Deployment Area | 980 x 980 m2 | Data packet size (k) | 4096 bits |
| Total number of Clusters | 49 | Max no. of nodes (in the network) | 490 |
| Initial energy of each node | 1J |  | 50 nJ/bit |
|  | 10pJ • bit−1 •m−2 | Maximum Number of Rounds | 50 |

Table 1. Parameters for simulation.

In Table 1, the units of the energy that we have used are different for the Initial energy, and those units are Joule, Nano Joule, and Pico-Joule respectively. So for maintaining equivalency, all calculations have been done in Pico-Joule in Table 2, Table 3 and Table 4.In this paper we have plotted the best path of shortest distances (see Figure 9, 13, 17) obtained from the ACO algorithm for different deployments by solving the equations 1 to 10 based on the data supplied in Table 1. As the energy consumption is directly proportional to the distance between nodes that’s why we have calculated the maximum coverage area. Table 1 shows the communication between the sink node and the cluster head, whereas Table 2,3 and 4 shows the communication between adjustment cluster heads. In the below diagram we are going to show the 4 phases of forming a network and finding the shortest path. The first process is the deployment where we have use three strategies random, spiral and square (See Figures 6, 10 and 14 respectively). The next step is the division of the nodes into clusters or clustering (See Figure 7, 11, 15). The third process consists of electing the Cluster Heads. (See Figure 8, 12, 16) and the fourth process includes connecting all the cluster heads among themselves using the ACO algorithm (See Figure 9, 13, 17).

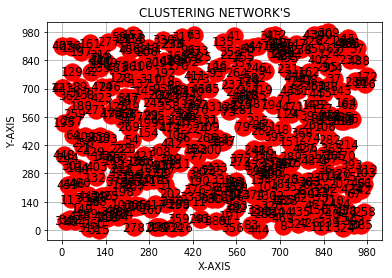


Figure 6: Random deployment-The above figure shows the random deployment of the nodes in the area.

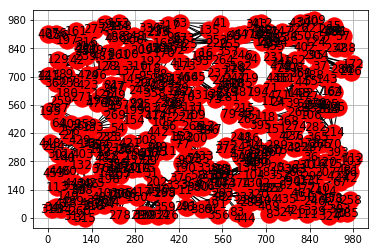


Figure 7: Random clustering-This figure shows how the nodes are grouped into clusters.

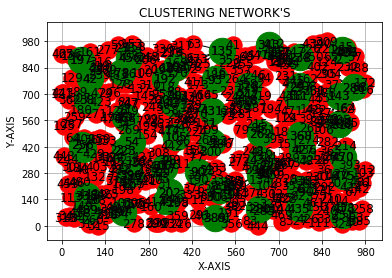


Figure 8: Leader Nodes or Head Nodes of the clusters-The above figure shows the leader nodes of their respective clusters. The leader nodes are denoted by the green colour.

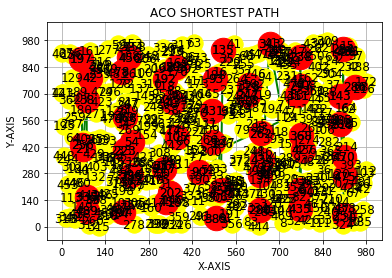


Figure 9: Shortest path-This figure shows the shortest path that connects all the leader nodes of the respective clusters and transfers the data to the sink. The leaders nodes are denoted by red colour and the yellow nodes are the other nodes of the clusters. The leader node are connected by a green line which depicts the path.

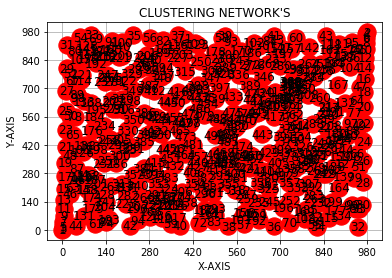


Figure 10: Spiral deployment-The above figure shows the deployment of nodes spirally starting from the upper left side and ending at the centre.

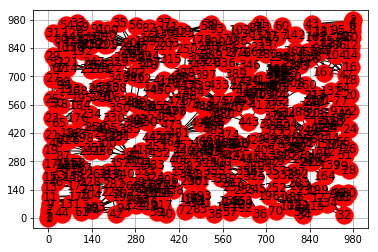


Figure 11: Spiral Clustering-This figure shows the clusters formed within the nodes and are connected through black lines.

PoPower Source

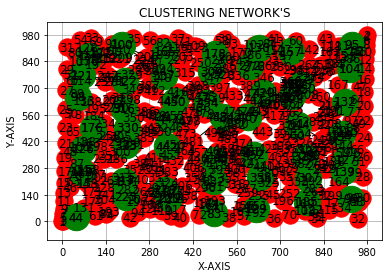


Figure 12: Leader nodes or head nodes of the clusters-The green nodes indicate the leader nodes of the respective clusters.

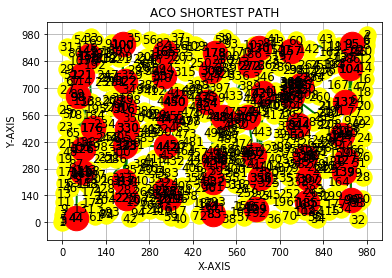


Figure 13: Shortest path- This figure shows the shortest path that connects all the leader nodes of the respective clusters and transfers the data to the sink. The leaders nodes are denoted by red colour and the yellow nodes are the other nodes of the clusters. The leader node are connected by a green line which depicts the path.

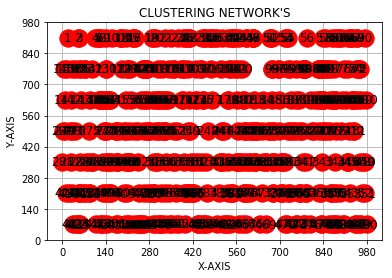


Figure 14: Square Deployment-This above figure shows the deployment of the nodes in square fashion

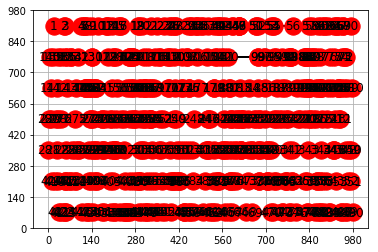


Figure 15: Square Clustering-This figure shows the clustering of the nodes in a square manner

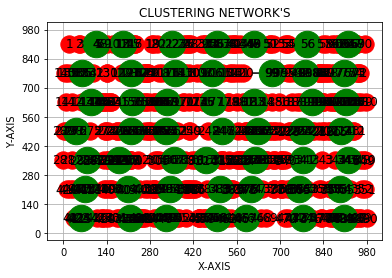


Figure 16: Leader nodes or head nodes of the clusters- The green nodes indicate the leader nodes of the respective clusters in a square manner.

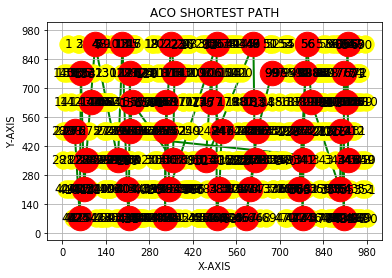


Figure 17: Shortest path- This figure shows the shortest path that connects all the leader nodes of the respective clusters and transfers the data to the sink. The leaders nodes are denoted by red colour and the yellow nodes are the other nodes of the clusters. The leader node are connected by a green line which depicts the path.

**6. Numerical Data representation**

Among two types of propagation models i.e., two ray propagation model and free space propagation models, the second one is related with distance between communicating nodes therefore in our experiment we have chosen only free space propagation model to show the result.

The representation of a node path has been denoted using Path number, source node coordinator and cell index of destination node. Here cell index is denoted as row and column number of the designated cell. The first cell has been considered as the nearest cell to the sink node and it has been denoted as (r1, c1) means row number one and column number one.

As for example, p1\_(0,0)->(r1,c1) denotes the communication of path no one and the source node is the sink node and the destination node belongs cell of the row number one and column number one.

As the path number is associated with a specific communication path therefore we didn’t gave each and individual node number in short when the new node of the cell (r1,c1) will be selected the path number obviously will be changed.

The numerical result related to the supplied data from Table 1 data has been calculated and represented in the below Table 2 and Table 3.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | **Dmin (d=42mm or 4.2cm)** | | | | **Dmax (d=42mm or 4.2cm)** | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SL NO. | E\_charge | K | Ets | x1 | y1 | x2 | y2 | (x1-d/2) | (y1-d/2) | (x2-d/2) | (y2-d/2) | (x1+d/2) | (y1+d/2) | (x2+d/2) | (y2+d/2) | dis(zero) | Dxy(min) | Dxy(max) | E\_tx0 | E\_tx(min) | E\_tx(max) | E\_rx | max Eng | min Eng | Avg Eng | total0 | totalxy(min) | totalxy(max) |
| 1 | 50000 | 4096 | 10 | 0 | 0 | 73.99 | 120.55 | -2.1 | -2.1 | 71.89 | 118.45 | 2.1 | 2.1 | 76.09 | 122.65 | 141.4455 | 135.676 | 147.2285 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3268.272 | 1598.856 | 1669.416 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 2 | 50000 | 4096 | 10 | 73.99 | 120.55 | 78.63 | 210.46 | 71.89 | 118.45 | 76.53 | 208.36 | 76.09 | 122.65 | 80.73 | 212.56 | 90.02965 | 85.71113 | 94.52427 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1588.44 | 758.94 | 829.5 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 3 | 50000 | 4096 | 10 | 78.63 | 210.46 | 79.74 | 418.47 | 76.53 | 208.36 | 77.64 | 416.37 | 80.73 | 212.56 | 81.84 | 420.57 | 208.013 | 203.8334 | 212.2764 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3513.216 | 1721.328 | 1791.888 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 4 | 50000 | 4096 | 10 | 79.74 | 418.47 | 77.69 | 528.49 | 77.64 | 416.37 | 75.59 | 526.39 | 81.84 | 420.57 | 79.79 | 530.59 | 110.0391 | 106.0044 | 114.2402 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1813.896 | 871.668 | 942.228 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 5 | 50000 | 4096 | 10 | 77.69 | 528.49 | 69.78 | 633.14 | 75.59 | 526.39 | 67.68 | 631.04 | 79.79 | 530.59 | 71.88 | 635.24 | 104.9485 | 101.1773 | 108.9132 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1625.232 | 777.336 | 847.896 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 6 | 50000 | 4096 | 10 | 69.78 | 633.14 | 34.63 | 768.93 | 67.68 | 631.04 | 32.53 | 766.83 | 71.88 | 635.24 | 36.73 | 771.03 | 140.2656 | 137.3476 | 143.3705 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1690.752 | 810.096 | 880.656 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 7 | 50000 | 4096 | 10 | 34.63 | 768.93 | 81.93 | 932.4 | 32.53 | 766.83 | 79.83 | 930.3 | 36.73 | 771.03 | 84.03 | 934.5 | 170.1756 | 164.9986 | 175.4009 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3540.936 | 1735.188 | 1805.748 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 8 | 50000 | 4096 | 10 | 81.93 | 932.4 | 240.8 | 26.71 | 79.83 | 930.3 | 238.7 | 24.61 | 84.03 | 934.5 | 242.9 | 28.81 | 919.5184 | 922.9424 | 916.1201 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 12546.58 | 6308.568 | 6238.008 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 9 | 50000 | 4096 | 10 | 240.8 | 26.71 | 206.11 | 174.58 | 238.7 | 24.61 | 204.01 | 172.48 | 242.9 | 28.81 | 208.21 | 176.68 | 151.8846 | 148.8405 | 155.0965 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1901.424 | 915.432 | 985.992 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 10 | 50000 | 4096 | 10 | 206.11 | 174.58 | 199.25 | 395.21 | 204.01 | 172.48 | 197.15 | 393.11 | 208.21 | 176.68 | 201.35 | 397.31 | 220.7366 | 216.7124 | 224.8457 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3591.336 | 1760.388 | 1830.948 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 11 | 50000 | 4096 | 10 | 199.25 | 395.21 | 193.9 | 446.17 | 197.15 | 393.11 | 191.8 | 444.07 | 201.35 | 397.31 | 196 | 448.27 | 51.24006 | 47.72526 | 55.17199 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 766.248 | 347.844 | 418.404 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 12 | 50000 | 4096 | 10 | 193.9 | 446.17 | 190.97 | 659.91 | 191.8 | 444.07 | 188.87 | 657.81 | 196 | 448.27 | 193.07 | 662.01 | 213.7601 | 209.6613 | 217.9437 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3541.608 | 1735.524 | 1806.084 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 13 | 50000 | 4096 | 10 | 190.97 | 659.91 | 214.88 | 808.76 | 188.87 | 657.81 | 212.78 | 806.66 | 193.07 | 662.01 | 216.98 | 810.86 | 150.7581 | 145.9867 | 155.61 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2902.368 | 1415.904 | 1486.464 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 14 | 50000 | 4096 | 10 | 214.88 | 808.76 | 223.71 | 966.82 | 212.78 | 806.66 | 221.61 | 964.72 | 216.98 | 810.86 | 225.81 | 968.92 | 158.3065 | 153.9296 | 162.7823 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2803.752 | 1366.596 | 1437.156 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 15 | 50000 | 4096 | 10 | 223.71 | 966.82 | 347.54 | 85.8 | 221.61 | 964.72 | 345.44 | 83.7 | 225.81 | 968.92 | 349.64 | 87.9 | 889.6798 | 893.2669 | 886.1179 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 12720.79 | 6395.676 | 6325.116 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 16 | 50000 | 4096 | 10 | 347.54 | 85.8 | 352.78 | 213.63 | 345.44 | 83.7 | 350.68 | 211.53 | 349.64 | 87.9 | 354.88 | 215.73 | 127.9374 | 123.6344 | 132.367 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2235.576 | 1082.508 | 1153.068 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 17 | 50000 | 4096 | 10 | 352.78 | 213.63 | 359.5 | 347.58 | 350.68 | 211.53 | 357.4 | 345.48 | 354.88 | 215.73 | 361.6 | 349.68 | 134.1185 | 129.7745 | 138.5809 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2363.256 | 1146.348 | 1216.908 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 18 | 50000 | 4096 | 10 | 359.5 | 347.58 | 337.39 | 455.84 | 357.4 | 345.48 | 335.29 | 453.74 | 361.6 | 349.68 | 339.49 | 457.94 | 110.4947 | 107.3345 | 113.8772 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1447.32 | 688.38 | 758.94 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 19 | 50000 | 4096 | 10 | 337.39 | 455.84 | 299.8 | 565.1 | 335.29 | 453.74 | 297.7 | 563 | 339.49 | 457.94 | 301.9 | 567.2 | 115.5455 | 113.0664 | 118.2711 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1204.056 | 566.748 | 637.308 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 20 | 50000 | 4096 | 10 | 299.8 | 565.1 | 352.59 | 768.17 | 297.7 | 563 | 350.49 | 766.07 | 301.9 | 567.2 | 354.69 | 770.27 | 209.8195 | 204.72 | 214.9621 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4298.448 | 2113.944 | 2184.504 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 21 | 50000 | 4096 | 10 | 352.59 | 768.17 | 343.88 | 858.24 | 350.49 | 766.07 | 341.78 | 856.14 | 354.69 | 770.27 | 345.98 | 860.34 | 90.49016 | 86.83504 | 94.37782 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1366.848 | 648.144 | 718.704 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 22 | 50000 | 4096 | 10 | 343.88 | 858.24 | 497.33 | 86.84 | 341.78 | 856.14 | 495.23 | 84.74 | 345.98 | 860.34 | 499.43 | 88.94 | 786.5144 | 789.8297 | 783.2301 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 10381.56 | 5226.06 | 5155.5 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 23 | 50000 | 4096 | 10 | 497.33 | 86.84 | 502.07 | 264.61 | 495.23 | 84.74 | 499.97 | 262.51 | 499.43 | 88.94 | 504.17 | 266.71 | 177.8332 | 173.5708 | 182.1895 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3066.168 | 1497.804 | 1568.364 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 24 | 50000 | 4096 | 10 | 502.07 | 264.61 | 498.94 | 385.81 | 499.97 | 262.51 | 496.84 | 383.71 | 504.17 | 266.71 | 501.04 | 387.91 | 121.2404 | 117.2294 | 125.4046 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1983.576 | 956.508 | 1027.068 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 25 | 50000 | 4096 | 10 | 498.94 | 385.81 | 491.39 | 489.98 | 496.84 | 383.71 | 489.29 | 487.88 | 501.04 | 387.91 | 493.49 | 492.08 | 104.4432 | 100.6582 | 108.4218 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1623.216 | 776.328 | 846.888 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 26 | 50000 | 4096 | 10 | 491.39 | 489.98 | 460.74 | 643.51 | 489.29 | 487.88 | 458.64 | 641.41 | 493.49 | 492.08 | 462.84 | 645.61 | 156.5595 | 153.3427 | 159.9323 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2064.384 | 996.912 | 1067.472 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 27 | 50000 | 4096 | 10 | 460.74 | 643.51 | 503.85 | 762.9 | 458.64 | 641.41 | 501.75 | 760.8 | 462.84 | 645.61 | 505.95 | 765 | 126.9348 | 121.5842 | 132.3356 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2730 | 1329.72 | 1400.28 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 28 | 50000 | 4096 | 10 | 503.85 | 762.9 | 485.34 | 973.62 | 501.75 | 760.8 | 483.24 | 971.52 | 505.95 | 765 | 487.44 | 975.72 | 211.5314 | 207.7649 | 215.3959 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3229.128 | 1579.284 | 1649.844 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 29 | 50000 | 4096 | 10 | 485.34 | 973.62 | 606.43 | 70.84 | 483.24 | 971.52 | 604.33 | 68.74 | 487.44 | 975.72 | 608.53 | 72.94 | 910.8647 | 914.4813 | 907.2726 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 13132.39 | 6601.476 | 6530.916 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 30 | 50000 | 4096 | 10 | 606.43 | 70.84 | 668.57 | 172.41 | 604.33 | 68.74 | 666.47 | 170.31 | 608.53 | 72.94 | 670.67 | 174.51 | 119.0708 | 113.3047 | 124.8531 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2750.328 | 1339.884 | 1410.444 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 31 | 50000 | 4096 | 10 | 668.57 | 172.41 | 642.35 | 297.09 | 666.47 | 170.31 | 640.25 | 294.99 | 670.67 | 174.51 | 644.45 | 299.19 | 127.4072 | 124.261 | 130.7476 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1654.128 | 791.784 | 862.344 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 32 | 50000 | 4096 | 10 | 642.35 | 297.09 | 623.04 | 475.11 | 640.25 | 294.99 | 620.94 | 473.01 | 644.45 | 299.19 | 625.14 | 477.21 | 179.0642 | 175.4027 | 182.8454 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2666.328 | 1297.884 | 1368.444 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 33 | 50000 | 4096 | 10 | 623.04 | 475.11 | 635.12 | 679.04 | 620.94 | 473.01 | 633.02 | 676.94 | 625.14 | 477.21 | 637.22 | 681.14 | 204.2875 | 199.8854 | 208.7657 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3628.968 | 1779.204 | 1849.764 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 34 | 50000 | 4096 | 10 | 635.12 | 679.04 | 615.51 | 810.27 | 633.02 | 676.94 | 613.41 | 808.17 | 637.22 | 681.14 | 617.61 | 812.37 | 132.6871 | 129.2422 | 136.3039 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1875.216 | 902.328 | 972.888 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 35 | 50000 | 4096 | 10 | 615.51 | 810.27 | 606.12 | 912.45 | 613.41 | 808.17 | 604.02 | 910.35 | 617.61 | 812.37 | 608.22 | 914.55 | 102.6105 | 98.91799 | 106.5065 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1558.872 | 744.156 | 814.716 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 36 | 50000 | 4096 | 10 | 606.12 | 912.45 | 775.81 | 25.53 | 604.02 | 910.35 | 773.71 | 23.43 | 608.22 | 914.55 | 777.91 | 27.63 | 903.0071 | 906.3563 | 899.6846 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 12049.46 | 6060.012 | 5989.452 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 37 | 50000 | 4096 | 10 | 775.81 | 25.53 | 779.25 | 216.12 | 773.71 | 23.43 | 777.15 | 214.02 | 777.91 | 27.63 | 781.35 | 218.22 | 190.621 | 186.3915 | 194.9398 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3259.704 | 1594.572 | 1665.132 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 38 | 50000 | 4096 | 10 | 779.25 | 216.12 | 757.88 | 390.8 | 777.15 | 214.02 | 755.78 | 388.7 | 781.35 | 218.22 | 759.98 | 392.9 | 175.9823 | 172.3869 | 179.7022 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2575.608 | 1252.524 | 1323.084 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 39 | 50000 | 4096 | 10 | 757.88 | 390.8 | 766.72 | 540.47 | 755.78 | 388.7 | 764.62 | 538.37 | 759.98 | 392.9 | 768.82 | 542.57 | 149.9308 | 145.544 | 154.4216 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2662.968 | 1296.204 | 1366.764 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 40 | 50000 | 4096 | 10 | 766.72 | 540.47 | 773.38 | 657.07 | 764.62 | 538.37 | 771.28 | 654.97 | 768.82 | 542.57 | 775.48 | 659.17 | 116.79 | 112.4269 | 121.2872 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2070.768 | 1000.104 | 1070.664 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 41 | 50000 | 4096 | 10 | 773.38 | 657.07 | 779.04 | 806.84 | 771.28 | 654.97 | 776.94 | 804.74 | 775.48 | 659.17 | 781.14 | 808.94 | 149.8769 | 145.5773 | 154.2854 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2611.224 | 1270.332 | 1340.892 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 42 | 50000 | 4096 | 10 | 779.04 | 806.84 | 751.55 | 919.89 | 776.94 | 804.74 | 749.45 | 917.79 | 781.14 | 808.94 | 753.65 | 921.99 | 116.3443 | 113.3692 | 119.5407 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1437.408 | 683.424 | 753.984 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 43 | 50000 | 4096 | 10 | 751.55 | 919.89 | 891 | 72.44 | 749.45 | 917.79 | 888.9 | 70.34 | 753.65 | 921.99 | 893.1 | 74.54 | 858.8468 | 862.3226 | 855.3981 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 11894.4 | 5982.48 | 5911.92 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 44 | 50000 | 4096 | 10 | 891 | 72.44 | 924.27 | 228.73 | 888.9 | 70.34 | 922.17 | 226.63 | 893.1 | 74.54 | 926.37 | 230.83 | 159.7919 | 154.8433 | 164.8061 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3184.608 | 1557.024 | 1627.584 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 45 | 50000 | 4096 | 10 | 924.27 | 228.73 | 911.66 | 293.76 | 922.17 | 226.63 | 909.56 | 291.66 | 926.37 | 230.83 | 913.76 | 295.86 | 66.24132 | 63.10994 | 69.73895 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 880.656 | 405.048 | 475.608 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 46 | 50000 | 4096 | 10 | 911.66 | 293.76 | 896.19 | 425.91 | 909.56 | 291.66 | 894.09 | 423.81 | 913.76 | 295.86 | 898.29 | 428.01 | 133.0524 | 129.4531 | 136.815 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1960.224 | 944.832 | 1015.392 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 47 | 50000 | 4096 | 10 | 896.19 | 425.91 | 908.65 | 670.22 | 894.09 | 423.81 | 906.55 | 668.12 | 898.29 | 428.01 | 910.75 | 672.32 | 244.6275 | 240.252 | 249.0678 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4313.736 | 2121.588 | 2192.148 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 48 | 50000 | 4096 | 10 | 908.65 | 670.22 | 918.81 | 749.21 | 906.55 | 668.12 | 916.71 | 747.11 | 910.75 | 672.32 | 920.91 | 751.31 | 79.64073 | 75.0271 | 84.42029 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1497.72 | 713.58 | 784.14 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 49 | 50000 | 4096 | 10 | 918.81 | 749.21 | 917.51 | 943.8 | 916.71 | 747.11 | 915.41 | 941.7 | 920.91 | 751.31 | 919.61 | 945.9 | 194.5943 | 190.4694 | 198.8112 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3247.272 | 1588.356 | 1658.916 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 1 | 50000 | 4096 | 10 | 0 | 0 | 47.09 | 10.82 | -2.1 | -2.1 | 44.99 | 8.72 | 2.1 | 2.1 | 49.19 | 12.92 | 48.31708 | 43.39789 | 53.44403 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 972.888 | 451.164 | 521.724 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 2 | 50000 | 4096 | 10 | 47.09 | 10.82 | 66.21 | 199.86 | 44.99 | 8.72 | 64.11 | 197.76 | 49.19 | 12.92 | 68.31 | 201.96 | 190.0045 | 185.4412 | 194.642 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3497.088 | 1713.264 | 1783.824 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 3 | 50000 | 4096 | 10 | 66.21 | 199.86 | 69.35 | 288.82 | 64.11 | 197.76 | 67.25 | 286.72 | 68.31 | 201.96 | 71.45 | 290.92 | 89.0154 | 84.76663 | 93.44871 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1547.28 | 738.36 | 808.92 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 4 | 50000 | 4096 | 10 | 69.35 | 288.82 | 65.87 | 460.9 | 67.25 | 286.72 | 63.77 | 458.8 | 71.45 | 290.92 | 67.97 | 463 | 172.1152 | 168.0556 | 176.2815 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2832.48 | 1380.96 | 1451.52 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 5 | 50000 | 4096 | 10 | 65.87 | 460.9 | 81.5 | 675.03 | 63.77 | 458.8 | 79.4 | 672.93 | 67.97 | 463 | 83.6 | 677.13 | 214.6997 | 210.2409 | 219.2287 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3859.968 | 1894.704 | 1965.264 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 6 | 50000 | 4096 | 10 | 81.5 | 675.03 | 31.14 | 712.78 | 79.4 | 672.93 | 29.04 | 710.68 | 83.6 | 677.13 | 33.24 | 714.88 | 62.938 | 64.04995 | 62.37426 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 211.848 | 141.204 | 70.644 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 7 | 50000 | 4096 | 10 | 31.14 | 712.78 | 78.95 | 933.96 | 29.04 | 710.68 | 76.85 | 931.86 | 33.24 | 714.88 | 81.05 | 936.06 | 226.2883 | 221.3191 | 231.3032 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4519.032 | 2224.236 | 2294.796 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 8 | 50000 | 4096 | 10 | 78.95 | 933.96 | 242.54 | 2.23 | 76.85 | 931.86 | 240.44 | 0.13 | 81.05 | 936.06 | 244.64 | 4.33 | 945.9823 | 949.4051 | 942.5844 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 12904.75 | 6487.656 | 6417.096 | 4.11E+08 | 4.11E+08 | 4.11E+08 |
| 9 | 50000 | 4096 | 10 | 242.54 | 2.23 | 256.37 | 147.93 | 240.44 | 0.13 | 254.27 | 145.83 | 244.64 | 4.33 | 258.47 | 150.03 | 146.3549 | 141.8273 | 150.9804 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2680.104 | 1304.772 | 1375.332 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 10 | 50000 | 4096 | 10 | 256.37 | 147.93 | 194.92 | 329.83 | 254.27 | 145.83 | 192.82 | 327.73 | 258.47 | 150.03 | 197.02 | 331.93 | 191.9993 | 189.4392 | 194.7069 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2023.56 | 976.5 | 1047.06 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 11 | 50000 | 4096 | 10 | 194.92 | 329.83 | 184.38 | 475.56 | 192.82 | 327.73 | 182.28 | 473.46 | 197.02 | 331.93 | 186.48 | 477.66 | 146.1107 | 142.2955 | 150.064 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2271.192 | 1100.316 | 1170.876 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 12 | 50000 | 4096 | 10 | 184.38 | 475.56 | 240.92 | 647.89 | 182.28 | 473.46 | 238.82 | 645.79 | 186.48 | 477.66 | 243.02 | 649.99 | 181.3681 | 176.0885 | 186.6874 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3845.016 | 1887.228 | 1957.788 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 13 | 50000 | 4096 | 10 | 240.92 | 647.89 | 218.18 | 821.58 | 238.82 | 645.79 | 216.08 | 819.48 | 243.02 | 649.99 | 220.28 | 823.68 | 175.1723 | 171.6177 | 178.8535 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2535.96 | 1232.7 | 1303.26 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 14 | 50000 | 4096 | 10 | 218.18 | 821.58 | 203.81 | 887.56 | 216.08 | 819.48 | 201.71 | 885.46 | 220.28 | 823.68 | 205.91 | 889.66 | 67.52672 | 64.51057 | 70.91305 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 867.048 | 398.244 | 468.804 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 15 | 50000 | 4096 | 10 | 203.81 | 887.56 | 350.08 | 49.92 | 201.71 | 885.46 | 347.98 | 47.82 | 205.91 | 889.66 | 352.18 | 52.02 | 850.315 | 853.7438 | 846.9141 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 11615.02 | 5842.788 | 5772.228 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 16 | 50000 | 4096 | 10 | 350.08 | 49.92 | 357.69 | 166.96 | 347.98 | 47.82 | 355.59 | 164.86 | 352.18 | 52.02 | 359.79 | 169.06 | 117.2871 | 112.8915 | 121.8138 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2094.12 | 1011.78 | 1082.34 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 17 | 50000 | 4096 | 10 | 357.69 | 166.96 | 363.47 | 408.02 | 355.59 | 164.86 | 361.37 | 405.92 | 359.79 | 169.06 | 365.57 | 410.12 | 241.1293 | 236.8653 | 245.463 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4146.912 | 2038.176 | 2108.736 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 18 | 50000 | 4096 | 10 | 363.47 | 408.02 | 331.78 | 451.98 | 361.37 | 405.92 | 329.68 | 449.88 | 365.57 | 410.12 | 333.88 | 454.08 | 54.19168 | 53.56258 | 55.45346 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 206.136 | 67.788 | 138.348 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 19 | 50000 | 4096 | 10 | 331.78 | 451.98 | 349.33 | 588.72 | 329.68 | 449.88 | 347.23 | 586.62 | 333.88 | 454.08 | 351.43 | 590.82 | 137.8616 | 133.2106 | 142.6084 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2592.072 | 1260.756 | 1331.316 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 20 | 50000 | 4096 | 10 | 349.33 | 588.72 | 345.6 | 791.88 | 347.23 | 586.62 | 343.5 | 789.78 | 351.43 | 590.82 | 347.7 | 793.98 | 203.1942 | 199.118 | 207.3605 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3350.424 | 1639.932 | 1710.492 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 21 | 50000 | 4096 | 10 | 345.6 | 791.88 | 350.44 | 853.64 | 343.5 | 789.78 | 348.34 | 851.54 | 347.7 | 793.98 | 352.54 | 855.74 | 61.94936 | 57.56356 | 66.5766 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1118.88 | 524.16 | 594.72 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 22 | 50000 | 4096 | 10 | 350.44 | 853.64 | 498.32 | 122.43 | 348.34 | 851.54 | 496.22 | 120.33 | 352.54 | 855.74 | 500.42 | 124.53 | 746.0138 | 749.3142 | 742.7462 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 9799.944 | 4935.252 | 4864.692 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 23 | 50000 | 4096 | 10 | 498.32 | 122.43 | 514.98 | 219.65 | 496.22 | 120.33 | 512.88 | 217.55 | 500.42 | 124.53 | 517.08 | 221.75 | 98.63713 | 93.8508 | 103.543 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1913.184 | 921.312 | 991.872 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 24 | 50000 | 4096 | 10 | 514.98 | 219.65 | 488.96 | 359.96 | 512.88 | 217.55 | 486.86 | 357.86 | 517.08 | 221.75 | 491.06 | 362.06 | 142.7023 | 139.4245 | 146.148 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1920.072 | 924.756 | 995.316 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 25 | 50000 | 4096 | 10 | 488.96 | 359.96 | 492.51 | 434.27 | 486.86 | 357.86 | 490.41 | 432.17 | 491.06 | 362.06 | 494.61 | 436.37 | 74.39475 | 70.11301 | 78.89159 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1308.048 | 618.744 | 689.304 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 26 | 50000 | 4096 | 10 | 492.51 | 434.27 | 469.83 | 629.1 | 490.41 | 432.17 | 467.73 | 627 | 494.61 | 436.37 | 471.93 | 631.2 | 196.1456 | 192.5158 | 199.8861 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2892.12 | 1410.78 | 1481.34 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 27 | 50000 | 4096 | 10 | 469.83 | 629.1 | 496.58 | 803.57 | 467.73 | 627 | 494.48 | 801.47 | 471.93 | 631.2 | 498.68 | 805.67 | 176.5088 | 171.7567 | 181.3308 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3380.496 | 1654.968 | 1725.528 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 28 | 50000 | 4096 | 10 | 496.58 | 803.57 | 488.69 | 876.54 | 494.48 | 801.47 | 486.59 | 874.44 | 498.68 | 805.67 | 490.79 | 878.64 | 73.39532 | 69.82464 | 77.25817 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1093.344 | 511.392 | 581.952 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 29 | 50000 | 4096 | 10 | 488.69 | 876.54 | 589.18 | 24.53 | 486.59 | 874.44 | 587.08 | 22.43 | 490.79 | 878.64 | 591.28 | 26.63 | 857.9157 | 861.6074 | 854.2493 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 12625.54 | 6348.048 | 6277.488 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 30 | 50000 | 4096 | 10 | 589.18 | 24.53 | 650.67 | 246.2 | 587.08 | 22.43 | 648.57 | 244.1 | 591.28 | 26.63 | 652.77 | 248.3 | 230.0405 | 224.8896 | 235.2285 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4757.088 | 2343.264 | 2413.824 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 31 | 50000 | 4096 | 10 | 650.67 | 246.2 | 657.18 | 297.73 | 648.57 | 244.1 | 655.08 | 295.63 | 652.77 | 248.3 | 659.28 | 299.83 | 51.93959 | 47.38634 | 56.74978 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 975.072 | 452.256 | 522.816 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 32 | 50000 | 4096 | 10 | 657.18 | 297.73 | 626.63 | 525.5 | 655.08 | 295.63 | 624.53 | 523.4 | 659.28 | 299.83 | 628.73 | 527.6 | 229.8097 | 226.2545 | 233.4618 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3313.296 | 1621.368 | 1691.928 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 33 | 50000 | 4096 | 10 | 626.63 | 525.5 | 645.5 | 666.15 | 624.53 | 523.4 | 643.4 | 664.05 | 628.73 | 527.6 | 647.6 | 668.25 | 141.9102 | 137.2363 | 146.6757 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2679.936 | 1304.688 | 1375.248 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 34 | 50000 | 4096 | 10 | 645.5 | 666.15 | 581.82 | 713.98 | 643.4 | 664.05 | 579.72 | 711.88 | 647.6 | 668.25 | 583.92 | 716.08 | 79.64202 | 80.69245 | 79.02526 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 266.28 | 168.42 | 97.86 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 35 | 50000 | 4096 | 10 | 581.82 | 713.98 | 622.96 | 965.6 | 579.72 | 711.88 | 620.86 | 963.5 | 583.92 | 716.08 | 625.06 | 967.7 | 254.961 | 250.1624 | 259.8068 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4918.368 | 2423.904 | 2494.464 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 36 | 50000 | 4096 | 10 | 622.96 | 965.6 | 785.54 | 67.5 | 620.86 | 963.5 | 783.44 | 65.4 | 625.06 | 967.7 | 787.64 | 69.6 | 912.697 | 916.0947 | 909.3255 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 12356.74 | 6213.648 | 6143.088 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 37 | 50000 | 4096 | 10 | 785.54 | 67.5 | 756.46 | 198.17 | 783.44 | 65.4 | 754.36 | 196.07 | 787.64 | 69.6 | 758.56 | 200.27 | 133.8667 | 130.7755 | 137.1457 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1706.712 | 818.076 | 888.636 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 38 | 50000 | 4096 | 10 | 756.46 | 198.17 | 760.81 | 333.98 | 754.36 | 196.07 | 758.71 | 331.88 | 758.56 | 200.27 | 762.91 | 336.08 | 135.8796 | 131.6101 | 140.2708 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2354.688 | 1142.064 | 1212.624 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 39 | 50000 | 4096 | 10 | 760.81 | 333.98 | 773.57 | 463.6 | 758.71 | 331.88 | 771.47 | 461.5 | 762.91 | 336.08 | 775.67 | 465.7 | 130.2465 | 125.7118 | 134.8905 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2391.984 | 1160.712 | 1231.272 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 40 | 50000 | 4096 | 10 | 773.57 | 463.6 | 800.27 | 589.5 | 771.47 | 461.5 | 798.17 | 587.4 | 775.67 | 465.7 | 802.37 | 591.6 | 128.7 | 123.7624 | 133.7192 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2563.68 | 1246.56 | 1317.12 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 41 | 50000 | 4096 | 10 | 800.27 | 589.5 | 793.26 | 831.25 | 798.17 | 587.4 | 791.16 | 829.15 | 802.37 | 591.6 | 795.36 | 833.35 | 241.8516 | 237.8144 | 245.9661 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3943.632 | 1936.536 | 2007.096 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 42 | 50000 | 4096 | 10 | 793.26 | 831.25 | 795.89 | 874.19 | 791.16 | 829.15 | 793.79 | 872.09 | 795.36 | 833.35 | 797.99 | 876.29 | 43.02047 | 38.7718 | 47.63222 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 765.576 | 347.508 | 418.068 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 43 | 50000 | 4096 | 10 | 795.89 | 874.19 | 916.49 | 30.87 | 793.79 | 872.09 | 914.39 | 28.77 | 797.99 | 876.29 | 918.59 | 32.97 | 851.8996 | 855.476 | 848.3498 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 12141.7 | 6106.128 | 6035.568 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 44 | 50000 | 4096 | 10 | 916.49 | 30.87 | 943.25 | 145.91 | 914.39 | 28.77 | 941.15 | 143.81 | 918.59 | 32.97 | 945.35 | 148.01 | 118.1114 | 113.1126 | 123.1937 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2382.24 | 1155.84 | 1226.4 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 45 | 50000 | 4096 | 10 | 943.25 | 145.91 | 925.94 | 374.09 | 941.15 | 143.81 | 923.84 | 371.99 | 945.35 | 148.01 | 928.04 | 376.19 | 228.8356 | 225.0105 | 232.7495 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3542.616 | 1736.028 | 1806.588 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 46 | 50000 | 4096 | 10 | 925.94 | 374.09 | 897.21 | 558.12 | 923.84 | 371.99 | 895.11 | 556.02 | 928.04 | 376.19 | 899.31 | 560.22 | 186.2591 | 182.8202 | 189.8216 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2609.04 | 1269.24 | 1339.8 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 47 | 50000 | 4096 | 10 | 897.21 | 558.12 | 892.2 | 644.97 | 895.11 | 556.02 | 890.1 | 642.87 | 899.31 | 560.22 | 894.3 | 647.07 | 86.99438 | 83.16157 | 91.0536 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1374.912 | 652.176 | 722.736 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 48 | 50000 | 4096 | 10 | 892.2 | 644.97 | 920.36 | 712.67 | 890.1 | 642.87 | 918.26 | 710.57 | 894.3 | 647.07 | 922.46 | 714.77 | 73.32309 | 67.86996 | 78.84656 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1610.448 | 769.944 | 840.504 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 49 | 50000 | 4096 | 10 | 920.36 | 712.67 | 901.71 | 938.67 | 918.26 | 710.57 | 899.61 | 936.57 | 922.46 | 714.77 | 903.81 | 940.77 | 226.7682 | 222.9739 | 230.6531 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3483.48 | 1706.46 | 1777.02 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 1 | 50000 | 4096 | 10 | 0 | 0 | 89.8 | 15.89 | -2.1 | -2.1 | 87.7 | 13.79 | 2.1 | 2.1 | 91.9 | 17.99 | 91.19502 | 86.39454 | 96.12288 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1775.592 | 852.516 | 923.076 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 2 | 50000 | 4096 | 10 | 89.8 | 15.89 | 61.99 | 150.24 | 87.7 | 13.79 | 59.89 | 148.14 | 91.9 | 17.99 | 64.09 | 152.34 | 137.1981 | 134.0286 | 140.5473 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1789.872 | 859.656 | 930.216 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 3 | 50000 | 4096 | 10 | 61.99 | 150.24 | 67.85 | 285.85 | 59.89 | 148.14 | 65.75 | 283.75 | 64.09 | 152.34 | 69.95 | 287.95 | 135.7366 | 131.4205 | 140.1715 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2376.696 | 1153.068 | 1223.628 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 4 | 50000 | 4096 | 10 | 67.85 | 285.85 | 79.38 | 555.16 | 65.75 | 283.75 | 77.28 | 553.06 | 69.95 | 287.95 | 81.48 | 557.26 | 269.5567 | 265.2113 | 273.962 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4718.112 | 2323.776 | 2394.336 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 5 | 50000 | 4096 | 10 | 79.38 | 555.16 | 43.27 | 683.1 | 77.28 | 553.06 | 41.17 | 681 | 81.48 | 557.26 | 45.37 | 685.2 | 132.9382 | 130.1402 | 135.9383 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1542.744 | 736.092 | 806.652 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 6 | 50000 | 4096 | 10 | 43.27 | 683.1 | 34.08 | 836.22 | 41.17 | 681 | 31.98 | 834.12 | 45.37 | 685.2 | 36.18 | 838.32 | 153.3955 | 149.5208 | 157.3991 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2418.024 | 1173.732 | 1244.292 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 7 | 50000 | 4096 | 10 | 34.08 | 836.22 | 101.27 | 914.34 | 31.98 | 834.12 | 99.17 | 912.24 | 36.18 | 838.32 | 103.37 | 916.44 | 103.0399 | 97.118 | 108.9638 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2441.208 | 1185.324 | 1255.884 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 8 | 50000 | 4096 | 10 | 101.27 | 914.34 | 215.86 | 46.83 | 99.17 | 912.24 | 213.76 | 44.73 | 103.37 | 916.44 | 217.96 | 48.93 | 875.0454 | 878.6719 | 871.4443 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 12649.06 | 6359.808 | 6289.248 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 9 | 50000 | 4096 | 10 | 215.86 | 46.83 | 159.21 | 165.26 | 213.76 | 44.73 | 157.11 | 163.16 | 217.96 | 48.93 | 161.31 | 167.36 | 131.2817 | 129.4265 | 133.3759 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1037.904 | 483.672 | 554.232 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 10 | 50000 | 4096 | 10 | 159.21 | 165.26 | 190.04 | 361.18 | 157.11 | 163.16 | 187.94 | 359.08 | 161.31 | 167.36 | 192.14 | 363.28 | 198.3309 | 193.5606 | 203.1628 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3809.4 | 1869.42 | 1939.98 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 11 | 50000 | 4096 | 10 | 190.04 | 361.18 | 223.71 | 424.28 | 187.94 | 359.08 | 221.61 | 422.18 | 192.14 | 363.28 | 225.81 | 426.38 | 71.52118 | 65.86115 | 77.22323 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1625.736 | 777.588 | 848.148 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 12 | 50000 | 4096 | 10 | 223.71 | 424.28 | 175.44 | 627.63 | 221.61 | 422.18 | 173.34 | 625.53 | 225.81 | 426.38 | 177.54 | 629.73 | 209.0005 | 205.9462 | 212.1772 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2605.344 | 1267.392 | 1337.952 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 13 | 50000 | 4096 | 10 | 175.44 | 627.63 | 222.24 | 830.92 | 173.34 | 625.53 | 220.14 | 828.82 | 177.54 | 629.73 | 224.34 | 833.02 | 208.6074 | 203.5966 | 213.6659 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4201.512 | 2065.476 | 2136.036 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 14 | 50000 | 4096 | 10 | 222.24 | 830.92 | 202.05 | 925.58 | 220.14 | 828.82 | 199.95 | 923.48 | 224.34 | 833.02 | 204.15 | 927.68 | 96.78921 | 93.69036 | 100.1448 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1251.096 | 590.268 | 660.828 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 15 | 50000 | 4096 | 10 | 202.05 | 925.58 | 341.53 | 59.86 | 199.95 | 923.48 | 339.43 | 57.76 | 204.15 | 927.68 | 343.63 | 61.96 | 876.8841 | 880.3758 | 873.4189 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 12200.83 | 6135.696 | 6065.136 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 16 | 50000 | 4096 | 10 | 341.53 | 59.86 | 352.92 | 148.18 | 339.43 | 57.76 | 350.82 | 146.08 | 343.63 | 61.96 | 355.02 | 150.28 | 89.05141 | 84.42672 | 93.8243 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1675.128 | 802.284 | 872.844 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 17 | 50000 | 4096 | 10 | 352.92 | 148.18 | 373.52 | 377.32 | 350.82 | 146.08 | 371.42 | 375.22 | 355.02 | 150.28 | 375.62 | 379.42 | 230.0641 | 225.5371 | 234.6542 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4195.632 | 2062.536 | 2133.096 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 18 | 50000 | 4096 | 10 | 373.52 | 377.32 | 348.24 | 481.64 | 371.42 | 375.22 | 346.14 | 479.54 | 375.62 | 379.42 | 350.34 | 483.74 | 107.3394 | 104.3699 | 110.5484 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1327.872 | 628.656 | 699.216 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 19 | 50000 | 4096 | 10 | 348.24 | 481.64 | 285.68 | 676.76 | 346.14 | 479.54 | 283.58 | 674.66 | 350.34 | 483.74 | 287.78 | 678.86 | 204.9038 | 202.2556 | 207.6881 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2227.008 | 1078.224 | 1148.784 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 20 | 50000 | 4096 | 10 | 285.68 | 676.76 | 363.92 | 825.85 | 283.58 | 674.66 | 361.82 | 823.75 | 287.78 | 678.86 | 366.02 | 827.95 | 168.3726 | 162.7115 | 174.0522 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3819.144 | 1874.292 | 1944.852 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 21 | 50000 | 4096 | 10 | 363.92 | 825.85 | 323.37 | 840.66 | 361.82 | 823.75 | 321.27 | 838.56 | 366.02 | 827.95 | 325.47 | 842.76 | 43.16988 | 45.99059 | 41.02076 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 432.432 | 251.496 | 180.936 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 22 | 50000 | 4096 | 10 | 323.37 | 840.66 | 501.76 | 11.26 | 321.27 | 838.56 | 499.66 | 9.16 | 325.47 | 842.76 | 503.86 | 13.36 | 848.3675 | 851.605 | 845.1592 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 10936.97 | 5503.764 | 5433.204 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 23 | 50000 | 4096 | 10 | 501.76 | 11.26 | 495.37 | 261.12 | 499.66 | 9.16 | 493.27 | 259.02 | 503.86 | 13.36 | 497.47 | 263.22 | 249.9417 | 245.8882 | 254.0694 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4090.296 | 2009.868 | 2080.428 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 24 | 50000 | 4096 | 10 | 495.37 | 261.12 | 541.76 | 301.24 | 493.27 | 259.02 | 539.66 | 299.14 | 497.47 | 263.22 | 543.86 | 303.34 | 61.33226 | 55.40977 | 67.25779 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1453.368 | 691.404 | 761.964 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 25 | 50000 | 4096 | 10 | 541.76 | 301.24 | 470.69 | 430.93 | 539.66 | 299.14 | 468.59 | 428.83 | 543.86 | 303.34 | 472.79 | 433.03 | 147.8866 | 146.3329 | 149.66 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 984.816 | 457.128 | 527.688 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 26 | 50000 | 4096 | 10 | 470.69 | 430.93 | 431.99 | 659.16 | 468.59 | 428.83 | 429.89 | 657.06 | 472.79 | 433.03 | 434.09 | 661.26 | 231.4878 | 228.1005 | 234.9765 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3184.104 | 1556.772 | 1627.332 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 27 | 50000 | 4096 | 10 | 431.99 | 659.16 | 532.34 | 771.67 | 429.89 | 657.06 | 530.24 | 769.57 | 434.09 | 661.26 | 534.44 | 773.77 | 150.7601 | 144.8305 | 156.6905 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3576.048 | 1752.744 | 1823.304 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 28 | 50000 | 4096 | 10 | 532.34 | 771.67 | 467.91 | 979.12 | 530.24 | 769.57 | 465.81 | 977.02 | 534.44 | 773.77 | 470.01 | 981.22 | 217.2251 | 214.5242 | 220.0531 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2402.736 | 1166.088 | 1236.648 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 29 | 50000 | 4096 | 10 | 467.91 | 979.12 | 581.5 | 70.75 | 465.81 | 977.02 | 579.4 | 68.65 | 470.01 | 981.22 | 583.6 | 72.85 | 915.4446 | 919.1029 | 911.8102 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 13352.3 | 6711.432 | 6640.872 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 30 | 50000 | 4096 | 10 | 581.5 | 70.75 | 643.16 | 210.61 | 579.4 | 68.65 | 641.06 | 208.51 | 583.6 | 72.85 | 645.26 | 212.71 | 152.8489 | 147.3271 | 158.4008 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3385.536 | 1657.488 | 1728.048 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 31 | 50000 | 4096 | 10 | 643.16 | 210.61 | 629.67 | 392.48 | 641.06 | 208.51 | 627.57 | 390.38 | 645.26 | 212.71 | 631.77 | 394.58 | 182.3696 | 178.5485 | 186.3018 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2828.784 | 1379.112 | 1449.672 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 32 | 50000 | 4096 | 10 | 629.67 | 392.48 | 618.1 | 539.35 | 627.57 | 390.38 | 616 | 537.25 | 631.77 | 394.58 | 620.2 | 541.45 | 147.325 | 143.5389 | 151.2497 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2273.04 | 1101.24 | 1171.8 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 33 | 50000 | 4096 | 10 | 618.1 | 539.35 | 612.51 | 597.88 | 616 | 537.25 | 610.41 | 595.78 | 620.2 | 541.45 | 614.61 | 599.98 | 58.79633 | 55.20501 | 62.7454 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 889.392 | 409.416 | 479.976 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 34 | 50000 | 4096 | 10 | 612.51 | 597.88 | 575.1 | 708.6 | 610.41 | 595.78 | 573 | 706.5 | 614.61 | 599.98 | 577.2 | 710.7 | 116.8693 | 114.3587 | 119.6224 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1231.608 | 580.524 | 651.084 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 35 | 50000 | 4096 | 10 | 575.1 | 708.6 | 629.82 | 848.95 | 573 | 706.5 | 627.72 | 846.85 | 577.2 | 710.7 | 631.92 | 851.05 | 150.64 | 145.2208 | 156.097 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3277.176 | 1603.308 | 1673.868 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 36 | 50000 | 4096 | 10 | 629.82 | 848.95 | 748.76 | 114.48 | 627.72 | 846.85 | 746.66 | 112.38 | 631.92 | 851.05 | 750.86 | 116.58 | 744.0382 | 747.5284 | 740.5793 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 10340.9 | 5205.732 | 5135.172 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 37 | 50000 | 4096 | 10 | 748.76 | 114.48 | 808.29 | 217.05 | 746.66 | 112.38 | 806.19 | 214.95 | 750.86 | 116.58 | 810.39 | 219.15 | 118.5935 | 112.863 | 124.3437 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2723.28 | 1326.36 | 1396.92 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 38 | 50000 | 4096 | 10 | 808.29 | 217.05 | 774.72 | 403.96 | 806.19 | 214.95 | 772.62 | 401.86 | 810.39 | 219.15 | 776.82 | 406.06 | 189.9007 | 186.5731 | 193.3536 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2576.112 | 1252.776 | 1323.336 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 39 | 50000 | 4096 | 10 | 774.72 | 403.96 | 745.17 | 517.91 | 772.62 | 401.86 | 743.07 | 515.81 | 776.82 | 406.06 | 747.27 | 520.01 | 117.7192 | 114.8221 | 120.8389 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1417.92 | 673.68 | 744.24 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 40 | 50000 | 4096 | 10 | 745.17 | 517.91 | 802.58 | 581.78 | 743.07 | 515.81 | 800.48 | 579.68 | 747.27 | 520.01 | 804.68 | 583.88 | 85.87948 | 79.94881 | 91.81131 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2037.504 | 983.472 | 1054.032 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 41 | 50000 | 4096 | 10 | 802.58 | 581.78 | 809.41 | 754.45 | 800.48 | 579.68 | 807.31 | 752.35 | 804.68 | 583.88 | 811.51 | 756.55 | 172.805 | 168.4905 | 177.2136 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3015.6 | 1472.52 | 1543.08 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 42 | 50000 | 4096 | 10 | 809.41 | 754.45 | 799.83 | 894.23 | 807.31 | 752.35 | 797.73 | 892.13 | 811.51 | 756.55 | 801.93 | 896.33 | 140.1079 | 136.2785 | 144.0805 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2187.36 | 1058.4 | 1128.96 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 43 | 50000 | 4096 | 10 | 799.83 | 894.23 | 854.66 | 57.06 | 797.73 | 892.13 | 852.56 | 54.96 | 801.93 | 896.33 | 856.76 | 59.16 | 838.9636 | 842.892 | 835.059 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 13143.31 | 6606.936 | 6536.376 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 44 | 50000 | 4096 | 10 | 854.66 | 57.06 | 901.78 | 259.71 | 852.56 | 54.96 | 899.68 | 257.61 | 856.76 | 59.16 | 903.88 | 261.81 | 208.056 | 203.0382 | 213.1212 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4196.136 | 2062.788 | 2133.348 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 45 | 50000 | 4096 | 10 | 901.78 | 259.71 | 889.75 | 322.21 | 899.68 | 257.61 | 887.65 | 320.11 | 903.88 | 261.81 | 891.85 | 324.31 | 63.64724 | 60.51696 | 67.15801 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 847.896 | 388.668 | 459.228 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 46 | 50000 | 4096 | 10 | 889.75 | 322.21 | 886.92 | 429.54 | 887.65 | 320.11 | 884.82 | 427.44 | 891.85 | 324.31 | 889.02 | 431.64 | 107.3673 | 103.3693 | 111.5384 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1755.6 | 842.52 | 913.08 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 47 | 50000 | 4096 | 10 | 886.92 | 429.54 | 921.29 | 579.59 | 884.82 | 427.44 | 919.19 | 577.49 | 889.02 | 431.64 | 923.39 | 581.69 | 153.936 | 148.9377 | 158.9991 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3098.256 | 1513.848 | 1584.408 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 48 | 50000 | 4096 | 10 | 921.29 | 579.59 | 923.19 | 748.52 | 919.19 | 577.49 | 921.09 | 746.42 | 923.39 | 581.69 | 925.29 | 750.62 | 168.9407 | 164.7461 | 173.2374 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2869.944 | 1399.692 | 1470.252 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 49 | 50000 | 4096 | 10 | 923.19 | 748.52 | 936.26 | 918.06 | 921.09 | 746.42 | 934.16 | 915.96 | 925.29 | 750.62 | 938.36 | 920.16 | 170.043 | 165.5778 | 174.5962 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3067.848 | 1498.644 | 1569.204 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 1 | 50000 | 4096 | 10 | 0 | 0 | 99.4 | 9.01 | -2.1 | -2.1 | 97.3 | 6.91 | 2.1 | 2.1 | 101.5 | 11.11 | 99.80752 | 95.32144 | 104.4388 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1821.288 | 875.364 | 945.924 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 2 | 50000 | 4096 | 10 | 99.4 | 9.01 | 90.31 | 159.6 | 97.3 | 6.91 | 88.21 | 157.5 | 101.5 | 11.11 | 92.41 | 161.7 | 150.8641 | 146.992 | 154.8672 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2377.2 | 1153.32 | 1223.88 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 3 | 50000 | 4096 | 10 | 90.31 | 159.6 | 64.07 | 362.22 | 88.21 | 157.5 | 61.97 | 360.12 | 92.41 | 161.7 | 66.17 | 364.32 | 204.312 | 200.7414 | 207.991 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2963.184 | 1446.312 | 1516.872 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 4 | 50000 | 4096 | 10 | 64.07 | 362.22 | 87.75 | 488.78 | 61.97 | 360.12 | 85.65 | 486.68 | 66.17 | 364.32 | 89.85 | 490.88 | 128.7563 | 123.9009 | 133.6992 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2524.032 | 1226.736 | 1297.296 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 5 | 50000 | 4096 | 10 | 87.75 | 488.78 | 40.2 | 615.54 | 85.65 | 486.68 | 38.1 | 613.44 | 89.85 | 490.88 | 42.3 | 617.64 | 135.385 | 133.0376 | 137.9483 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1330.728 | 630.084 | 700.644 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 6 | 50000 | 4096 | 10 | 40.2 | 615.54 | 15.79 | 700.83 | 38.1 | 613.44 | 13.69 | 698.73 | 42.3 | 617.64 | 17.89 | 702.93 | 88.71433 | 85.98907 | 91.74369 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1022.784 | 476.112 | 546.672 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 7 | 50000 | 4096 | 10 | 15.79 | 700.83 | 102.74 | 970.64 | 13.69 | 698.73 | 100.64 | 968.54 | 17.89 | 702.93 | 104.84 | 972.74 | 283.4744 | 278.2018 | 288.7729 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 5993.568 | 2961.504 | 3032.064 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 8 | 50000 | 4096 | 10 | 102.74 | 970.64 | 200.86 | 59.33 | 100.64 | 968.54 | 198.76 | 57.23 | 104.84 | 972.74 | 202.96 | 61.43 | 916.577 | 920.3149 | 912.8625 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 13661.59 | 6866.076 | 6795.516 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 9 | 50000 | 4096 | 10 | 200.86 | 59.33 | 149.23 | 161.67 | 198.76 | 57.23 | 147.13 | 159.57 | 202.96 | 61.43 | 151.33 | 163.77 | 114.6261 | 112.909 | 116.6207 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 851.928 | 390.684 | 461.244 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 10 | 50000 | 4096 | 10 | 149.23 | 161.67 | 185.69 | 362.29 | 147.13 | 159.57 | 183.59 | 360.19 | 151.33 | 163.77 | 187.79 | 364.39 | 203.9061 | 199.0516 | 208.8168 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3982.944 | 1956.192 | 2026.752 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 11 | 50000 | 4096 | 10 | 185.69 | 362.29 | 226.23 | 433.44 | 183.59 | 360.19 | 224.13 | 431.34 | 187.79 | 364.39 | 228.33 | 435.54 | 81.88904 | 76.17676 | 87.63156 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1876.392 | 902.916 | 973.476 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 12 | 50000 | 4096 | 10 | 226.23 | 433.44 | 266.52 | 612.7 | 224.13 | 431.34 | 264.42 | 610.6 | 228.33 | 435.54 | 268.62 | 614.8 | 183.732 | 178.7414 | 188.7775 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3688.44 | 1808.94 | 1879.5 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 13 | 50000 | 4096 | 10 | 266.52 | 612.7 | 226.04 | 717.97 | 264.42 | 610.6 | 223.94 | 715.87 | 268.62 | 614.8 | 228.14 | 720.07 | 112.7848 | 110.5054 | 115.3253 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1088.472 | 508.956 | 579.516 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 14 | 50000 | 4096 | 10 | 226.04 | 717.97 | 198.71 | 886.59 | 223.94 | 715.87 | 196.61 | 884.49 | 228.14 | 720.07 | 200.81 | 888.69 | 170.8205 | 167.4159 | 174.361 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2373.672 | 1151.556 | 1222.116 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 15 | 50000 | 4096 | 10 | 198.71 | 886.59 | 355.74 | 43.81 | 196.61 | 884.49 | 353.64 | 41.71 | 200.81 | 888.69 | 357.84 | 45.91 | 857.2844 | 860.658 | 853.9388 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 11520.6 | 5795.58 | 5725.02 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 16 | 50000 | 4096 | 10 | 355.74 | 43.81 | 367.21 | 170.55 | 353.64 | 41.71 | 365.11 | 168.45 | 357.84 | 45.91 | 369.31 | 172.65 | 127.258 | 122.7555 | 131.8743 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2321.928 | 1125.684 | 1196.244 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 17 | 50000 | 4096 | 10 | 367.21 | 170.55 | 374.9 | 399.61 | 365.11 | 168.45 | 372.8 | 397.51 | 369.31 | 172.65 | 377 | 401.71 | 229.189 | 224.8871 | 233.5628 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3977.4 | 1953.42 | 2023.98 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 18 | 50000 | 4096 | 10 | 374.9 | 399.61 | 321.87 | 497.37 | 372.8 | 397.51 | 319.77 | 495.27 | 377 | 401.71 | 323.97 | 499.47 | 111.2169 | 109.6756 | 113.0496 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 751.464 | 340.452 | 411.012 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 19 | 50000 | 4096 | 10 | 321.87 | 497.37 | 381.42 | 631.53 | 319.77 | 495.27 | 379.32 | 629.43 | 323.97 | 499.47 | 383.52 | 633.63 | 146.7825 | 141.2559 | 152.3403 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3254.328 | 1591.884 | 1662.444 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 20 | 50000 | 4096 | 10 | 381.42 | 631.53 | 345.01 | 831.27 | 379.32 | 629.43 | 342.91 | 829.17 | 383.52 | 633.63 | 347.11 | 833.37 | 203.0314 | 199.7125 | 206.4679 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2743.944 | 1336.692 | 1407.252 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 21 | 50000 | 4096 | 10 | 345.01 | 831.27 | 352.41 | 848.15 | 342.91 | 829.17 | 350.31 | 846.05 | 347.11 | 833.37 | 354.51 | 850.25 | 18.4308 | 13.07755 | 24.06089 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 407.904 | 168.672 | 239.232 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 22 | 50000 | 4096 | 10 | 352.41 | 848.15 | 503.22 | 119.79 | 350.31 | 846.05 | 501.12 | 117.69 | 354.51 | 850.25 | 505.32 | 121.89 | 743.8091 | 747.0868 | 740.5645 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 9702.84 | 4886.7 | 4816.14 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 23 | 50000 | 4096 | 10 | 503.22 | 119.79 | 522.53 | 272.41 | 501.12 | 117.69 | 520.43 | 270.31 | 505.32 | 121.89 | 524.63 | 274.51 | 153.8367 | 149.1872 | 158.5725 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2888.424 | 1408.932 | 1479.492 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 24 | 50000 | 4096 | 10 | 522.53 | 272.41 | 544.31 | 353.56 | 520.43 | 270.31 | 542.21 | 351.46 | 524.63 | 274.51 | 546.41 | 355.66 | 84.02197 | 78.93262 | 89.21649 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1729.224 | 829.332 | 899.892 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 25 | 50000 | 4096 | 10 | 544.31 | 353.56 | 469.14 | 502.84 | 542.21 | 351.46 | 467.04 | 500.74 | 546.41 | 355.66 | 471.24 | 504.94 | 167.1378 | 165.3717 | 169.0942 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1245.048 | 587.244 | 657.804 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 26 | 50000 | 4096 | 10 | 469.14 | 502.84 | 512.24 | 575.91 | 467.04 | 500.74 | 510.14 | 573.81 | 471.24 | 504.94 | 514.34 | 578.01 | 84.83416 | 79.09669 | 90.5977 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1951.656 | 940.548 | 1011.108 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 27 | 50000 | 4096 | 10 | 512.24 | 575.91 | 457.59 | 750.69 | 510.14 | 573.81 | 455.49 | 748.59 | 514.34 | 578.01 | 459.69 | 752.79 | 183.1247 | 180.4463 | 185.9544 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2018.184 | 973.812 | 1044.372 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 28 | 50000 | 4096 | 10 | 457.59 | 750.69 | 457 | 964.07 | 455.49 | 748.59 | 454.9 | 961.97 | 459.69 | 752.79 | 459.1 | 966.17 | 213.3808 | 209.2348 | 217.6099 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3574.872 | 1752.156 | 1822.716 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 29 | 50000 | 4096 | 10 | 457 | 964.07 | 649.12 | 0.58 | 454.9 | 961.97 | 647.02 | -1.52 | 459.1 | 966.17 | 651.22 | 2.68 | 982.4577 | 985.7677 | 979.1725 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 12959.02 | 6514.788 | 6444.228 | 4.11E+08 | 4.11E+08 | 4.11E+08 |
| 30 | 50000 | 4096 | 10 | 649.12 | 0.58 | 681.89 | 244.36 | 647.02 | -1.52 | 679.79 | 242.26 | 651.22 | 2.68 | 683.99 | 246.46 | 245.9727 | 241.2775 | 250.7207 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4646.04 | 2287.74 | 2358.3 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 31 | 50000 | 4096 | 10 | 681.89 | 244.36 | 659.85 | 331.03 | 679.79 | 242.26 | 657.75 | 328.93 | 683.99 | 246.46 | 661.95 | 333.13 | 89.42847 | 86.54385 | 92.60466 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1085.784 | 507.612 | 578.172 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 32 | 50000 | 4096 | 10 | 659.85 | 331.03 | 637.26 | 464.85 | 657.75 | 328.93 | 635.16 | 462.75 | 661.95 | 333.13 | 639.36 | 466.95 | 135.7133 | 132.3595 | 139.2398 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1868.664 | 899.052 | 969.612 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 33 | 50000 | 4096 | 10 | 637.26 | 464.85 | 611.74 | 613.33 | 635.16 | 462.75 | 609.64 | 611.23 | 639.36 | 466.95 | 613.84 | 615.43 | 150.6572 | 147.3092 | 154.1614 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2065.728 | 997.584 | 1068.144 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 34 | 50000 | 4096 | 10 | 611.74 | 613.33 | 573.61 | 761.59 | 609.64 | 611.23 | 571.51 | 759.49 | 613.84 | 615.43 | 575.71 | 763.69 | 153.0847 | 150.1503 | 156.1899 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1850.184 | 889.812 | 960.372 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 35 | 50000 | 4096 | 10 | 573.61 | 761.59 | 593.01 | 846.17 | 571.51 | 759.49 | 590.91 | 844.07 | 575.71 | 763.69 | 595.11 | 848.27 | 86.77636 | 81.80455 | 91.8632 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1746.864 | 838.152 | 908.712 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 36 | 50000 | 4096 | 10 | 593.01 | 846.17 | 738.65 | 26.69 | 590.91 | 844.07 | 736.55 | 24.59 | 595.11 | 848.27 | 740.75 | 28.79 | 832.3211 | 835.7356 | 828.9352 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 11320.51 | 5695.536 | 5624.976 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 37 | 50000 | 4096 | 10 | 738.65 | 26.69 | 748.82 | 171.58 | 736.55 | 24.59 | 746.72 | 169.48 | 740.75 | 28.79 | 750.92 | 173.68 | 145.2465 | 140.8166 | 149.7809 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2605.008 | 1267.224 | 1337.784 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 38 | 50000 | 4096 | 10 | 748.82 | 171.58 | 715.58 | 362.15 | 746.72 | 169.48 | 713.48 | 360.05 | 750.92 | 173.68 | 717.68 | 364.25 | 193.4472 | 190.0935 | 196.923 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2643.144 | 1286.292 | 1356.852 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 39 | 50000 | 4096 | 10 | 715.58 | 362.15 | 789.11 | 555.11 | 713.48 | 360.05 | 787.01 | 553.01 | 717.68 | 364.25 | 791.21 | 557.21 | 206.4951 | 201.0895 | 211.9293 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4477.032 | 2203.236 | 2273.796 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 40 | 50000 | 4096 | 10 | 789.11 | 555.11 | 802.99 | 578.58 | 787.01 | 553.01 | 800.89 | 576.48 | 791.21 | 557.21 | 805.09 | 580.68 | 27.26711 | 21.56468 | 33.05322 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 627.48 | 278.46 | 349.02 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 41 | 50000 | 4096 | 10 | 802.99 | 578.58 | 741.16 | 707.54 | 800.89 | 576.48 | 739.06 | 705.44 | 805.09 | 580.68 | 743.26 | 709.64 | 143.0162 | 141.156 | 145.0958 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1127.784 | 528.612 | 599.172 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 42 | 50000 | 4096 | 10 | 741.16 | 707.54 | 716.51 | 934.57 | 739.06 | 705.44 | 714.41 | 932.47 | 743.26 | 709.64 | 718.61 | 936.67 | 228.3643 | 224.6899 | 232.1325 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3399.984 | 1664.712 | 1735.272 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 43 | 50000 | 4096 | 10 | 716.51 | 934.57 | 938.46 | 64.75 | 714.41 | 932.47 | 936.36 | 62.65 | 718.61 | 936.67 | 940.56 | 66.85 | 897.6907 | 900.7364 | 894.6741 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 10884.22 | 5477.388 | 5406.828 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 44 | 50000 | 4096 | 10 | 938.46 | 64.75 | 943.78 | 194.62 | 936.36 | 62.65 | 941.68 | 192.52 | 940.56 | 66.85 | 945.88 | 196.72 | 129.9789 | 125.675 | 134.4076 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2271.192 | 1100.316 | 1170.876 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 45 | 50000 | 4096 | 10 | 943.78 | 194.62 | 965.37 | 414.82 | 941.68 | 192.52 | 963.27 | 412.72 | 945.88 | 196.72 | 967.47 | 416.92 | 221.2559 | 216.6989 | 225.8771 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4062.072 | 1995.756 | 2066.316 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 46 | 50000 | 4096 | 10 | 965.37 | 414.82 | 878.15 | 533.08 | 963.27 | 412.72 | 876.05 | 530.98 | 967.47 | 416.92 | 880.25 | 535.18 | 146.9447 | 146.1756 | 147.9485 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 521.472 | 225.456 | 296.016 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 47 | 50000 | 4096 | 10 | 878.15 | 533.08 | 876.87 | 582.03 | 876.05 | 530.98 | 874.77 | 579.93 | 880.25 | 535.18 | 878.97 | 584.13 | 48.96673 | 45.08429 | 53.23015 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 800.856 | 365.148 | 435.708 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 48 | 50000 | 4096 | 10 | 876.87 | 582.03 | 924.69 | 732.3 | 874.77 | 579.93 | 922.59 | 730.2 | 878.97 | 584.13 | 926.79 | 734.4 | 157.6954 | 152.4439 | 162.9941 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3327.912 | 1628.676 | 1699.236 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 49 | 50000 | 4096 | 10 | 924.69 | 732.3 | 940.06 | 972.15 | 922.59 | 730.2 | 937.96 | 970.05 | 926.79 | 734.4 | 942.16 | 974.25 | 240.342 | 235.9146 | 244.8334 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4287.696 | 2108.568 | 2179.128 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 1 | 50000 | 4096 | 10 | 0 | 0 | 18.85 | 23.99 | -2.1 | -2.1 | 16.75 | 21.89 | 2.1 | 2.1 | 20.95 | 26.09 | 30.50971 | 24.62248 | 36.41399 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 719.712 | 324.576 | 395.136 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 2 | 50000 | 4096 | 10 | 18.85 | 23.99 | 58.85 | 152.99 | 16.75 | 21.89 | 56.75 | 150.89 | 20.95 | 26.09 | 60.95 | 155.09 | 135.0592 | 129.8333 | 140.342 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2839.2 | 1384.32 | 1454.88 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 3 | 50000 | 4096 | 10 | 58.85 | 152.99 | 59.24 | 385.4 | 56.75 | 150.89 | 57.14 | 383.3 | 60.95 | 155.09 | 61.34 | 387.5 | 232.4103 | 228.2418 | 236.6545 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3911.04 | 1920.24 | 1990.8 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 4 | 50000 | 4096 | 10 | 59.24 | 385.4 | 91.11 | 556.84 | 57.14 | 383.3 | 89.01 | 554.74 | 61.34 | 387.5 | 93.21 | 558.94 | 174.3771 | 169.5136 | 179.3055 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3415.608 | 1672.524 | 1743.084 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 5 | 50000 | 4096 | 10 | 91.11 | 556.84 | 101.7 | 672.41 | 89.01 | 554.74 | 99.6 | 670.31 | 93.21 | 558.94 | 103.8 | 674.51 | 116.0542 | 111.5532 | 120.6797 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2119.488 | 1024.464 | 1095.024 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 6 | 50000 | 4096 | 10 | 101.7 | 672.41 | 11.56 | 814.67 | 99.6 | 670.31 | 9.46 | 812.57 | 103.8 | 674.51 | 13.66 | 816.77 | 168.4136 | 167.2142 | 169.8123 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 875.616 | 402.528 | 473.088 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 7 | 50000 | 4096 | 10 | 11.56 | 814.67 | 106.97 | 924.04 | 9.46 | 812.57 | 104.87 | 921.94 | 13.66 | 816.77 | 109.07 | 926.14 | 145.1374 | 139.212 | 151.0639 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3440.304 | 1684.872 | 1755.432 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 8 | 50000 | 4096 | 10 | 106.97 | 924.04 | 260.23 | 122.95 | 104.87 | 921.94 | 258.13 | 120.85 | 109.07 | 926.14 | 262.33 | 125.05 | 815.6187 | 818.9694 | 812.2976 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 10883.54 | 5477.052 | 5406.492 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 9 | 50000 | 4096 | 10 | 260.23 | 122.95 | 278 | 204.06 | 258.13 | 120.85 | 275.9 | 201.96 | 262.33 | 125.05 | 280.1 | 206.16 | 83.03376 | 78.09797 | 88.09357 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1661.184 | 795.312 | 865.872 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 10 | 50000 | 4096 | 10 | 278 | 204.06 | 215.71 | 416.39 | 275.9 | 201.96 | 213.61 | 414.29 | 280.1 | 206.16 | 217.81 | 418.49 | 221.2783 | 218.4926 | 224.1867 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2520.672 | 1225.056 | 1295.616 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 11 | 50000 | 4096 | 10 | 215.71 | 416.39 | 170.52 | 438.29 | 213.61 | 414.29 | 168.42 | 436.19 | 217.81 | 418.49 | 172.62 | 440.39 | 50.21699 | 52.46582 | 48.59414 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 391.272 | 230.916 | 160.356 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 12 | 50000 | 4096 | 10 | 170.52 | 438.29 | 168.77 | 697.39 | 168.42 | 436.19 | 166.67 | 695.29 | 172.62 | 440.39 | 170.87 | 699.49 | 259.1059 | 254.9694 | 263.3114 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4323.48 | 2126.46 | 2197.02 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 13 | 50000 | 4096 | 10 | 168.77 | 697.39 | 178.44 | 785.4 | 166.67 | 695.29 | 176.34 | 783.3 | 170.87 | 699.49 | 180.54 | 787.5 | 88.53965 | 83.98831 | 93.24731 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1641.024 | 785.232 | 855.792 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 14 | 50000 | 4096 | 10 | 178.44 | 785.4 | 189.81 | 880.83 | 176.34 | 783.3 | 187.71 | 878.73 | 180.54 | 787.5 | 191.91 | 882.93 | 96.10495 | 91.51132 | 100.8393 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1794.24 | 861.84 | 932.4 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 15 | 50000 | 4096 | 10 | 189.81 | 880.83 | 339.12 | 118.58 | 187.71 | 878.73 | 337.02 | 116.48 | 191.91 | 882.93 | 341.22 | 120.68 | 776.7358 | 780.0657 | 773.4372 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 10297.39 | 5183.976 | 5113.416 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 16 | 50000 | 4096 | 10 | 339.12 | 118.58 | 339.13 | 245.92 | 337.02 | 116.48 | 337.03 | 243.82 | 341.22 | 120.68 | 341.23 | 248.02 | 127.34 | 123.2113 | 131.6074 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2139.48 | 1034.46 | 1105.02 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 17 | 50000 | 4096 | 10 | 339.13 | 245.92 | 330.47 | 416.96 | 337.03 | 243.82 | 328.37 | 414.86 | 341.23 | 248.02 | 332.57 | 419.06 | 171.2591 | 167.3349 | 175.2967 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2727.984 | 1328.712 | 1399.272 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 18 | 50000 | 4096 | 10 | 330.47 | 416.96 | 314.51 | 544.95 | 328.37 | 414.86 | 312.41 | 542.85 | 332.57 | 419.06 | 316.61 | 547.05 | 128.9812 | 125.4209 | 132.7121 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1882.104 | 905.772 | 976.332 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 19 | 50000 | 4096 | 10 | 314.51 | 544.95 | 281.89 | 611.26 | 312.41 | 542.85 | 279.79 | 609.16 | 316.61 | 547.05 | 283.99 | 613.36 | 73.89912 | 72.20363 | 76.02208 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 565.992 | 247.716 | 318.276 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 20 | 50000 | 4096 | 10 | 281.89 | 611.26 | 365.2 | 818.3 | 279.79 | 609.16 | 363.1 | 816.2 | 283.99 | 613.36 | 367.3 | 820.4 | 223.1728 | 217.7211 | 228.6489 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4877.88 | 2403.66 | 2474.22 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 21 | 50000 | 4096 | 10 | 365.2 | 818.3 | 316.12 | 863.81 | 363.1 | 816.2 | 314.02 | 861.71 | 367.3 | 820.4 | 318.22 | 865.91 | 66.93285 | 67.41865 | 66.97237 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 59.976 | 65.268 | 5.292 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 22 | 50000 | 4096 | 10 | 316.12 | 863.81 | 474.39 | 28.52 | 314.02 | 861.71 | 472.29 | 26.42 | 318.22 | 865.91 | 476.49 | 30.62 | 850.1522 | 853.511 | 846.8218 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 11373.94 | 5722.248 | 5651.688 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 23 | 50000 | 4096 | 10 | 474.39 | 28.52 | 482.14 | 187.77 | 472.29 | 26.42 | 480.04 | 185.67 | 476.49 | 30.62 | 484.24 | 189.87 | 159.4385 | 155.0906 | 163.8863 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2805.6 | 1367.52 | 1438.08 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 24 | 50000 | 4096 | 10 | 482.14 | 187.77 | 550.5 | 363.81 | 480.04 | 185.67 | 548.4 | 361.71 | 484.24 | 189.87 | 552.6 | 365.91 | 188.847 | 183.4271 | 194.2972 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4105.92 | 2017.68 | 2088.24 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 25 | 50000 | 4096 | 10 | 550.5 | 363.81 | 468.9 | 438.4 | 548.4 | 361.71 | 466.8 | 436.3 | 552.6 | 365.91 | 471 | 440.5 | 110.5542 | 110.9792 | 110.4474 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 117.768 | 94.164 | 23.604 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 26 | 50000 | 4096 | 10 | 468.9 | 438.4 | 421.67 | 656.95 | 466.8 | 436.3 | 419.57 | 654.85 | 471 | 440.5 | 423.77 | 659.05 | 223.5951 | 220.4336 | 226.8681 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2878.176 | 1403.808 | 1474.368 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 27 | 50000 | 4096 | 10 | 421.67 | 656.95 | 541.59 | 719.84 | 419.57 | 654.85 | 539.49 | 717.74 | 423.77 | 659.05 | 543.69 | 721.94 | 135.4103 | 129.7522 | 141.0916 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3071.208 | 1500.324 | 1570.884 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 28 | 50000 | 4096 | 10 | 541.59 | 719.84 | 515 | 883.78 | 539.49 | 717.74 | 512.9 | 881.68 | 543.69 | 721.94 | 517.1 | 885.88 | 166.0824 | 162.6803 | 169.6242 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2307.48 | 1118.46 | 1189.02 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 29 | 50000 | 4096 | 10 | 515 | 883.78 | 654.84 | 93.76 | 512.9 | 881.68 | 652.74 | 91.66 | 517.1 | 885.88 | 656.94 | 95.86 | 802.301 | 805.7193 | 798.9121 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 10923.02 | 5496.792 | 5426.232 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 30 | 50000 | 4096 | 10 | 654.84 | 93.76 | 682.58 | 179.02 | 652.74 | 91.66 | 680.48 | 176.92 | 656.94 | 95.86 | 684.68 | 181.12 | 89.65922 | 84.40886 | 94.99082 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1898.4 | 913.92 | 984.48 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 31 | 50000 | 4096 | 10 | 682.58 | 179.02 | 661.09 | 309.7 | 680.48 | 176.92 | 658.99 | 307.6 | 684.68 | 181.12 | 663.19 | 311.8 | 132.4352 | 129.0626 | 135.9837 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1834.392 | 881.916 | 952.476 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 32 | 50000 | 4096 | 10 | 661.09 | 309.7 | 612.7 | 491.89 | 658.99 | 307.6 | 610.6 | 489.79 | 663.19 | 311.8 | 614.8 | 493.99 | 188.5067 | 185.5967 | 191.5567 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2247.84 | 1088.64 | 1159.2 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 33 | 50000 | 4096 | 10 | 612.7 | 491.89 | 608.05 | 602.11 | 610.6 | 489.79 | 605.95 | 600.01 | 614.8 | 493.99 | 610.15 | 604.21 | 110.318 | 106.3887 | 114.4209 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1773.576 | 851.508 | 922.068 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 34 | 50000 | 4096 | 10 | 608.05 | 602.11 | 647.2 | 770.61 | 605.95 | 600.01 | 645.1 | 768.51 | 610.15 | 604.21 | 649.3 | 772.71 | 172.9884 | 167.9762 | 178.0576 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3488.52 | 1708.98 | 1779.54 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 35 | 50000 | 4096 | 10 | 647.2 | 770.61 | 576.95 | 941.52 | 645.1 | 768.51 | 574.85 | 939.42 | 649.3 | 772.71 | 579.05 | 943.62 | 184.7844 | 182.5788 | 187.1527 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1691.088 | 810.264 | 880.824 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 36 | 50000 | 4096 | 10 | 576.95 | 941.52 | 822.69 | 123.34 | 574.85 | 939.42 | 820.59 | 121.24 | 579.05 | 943.62 | 824.79 | 125.44 | 854.2872 | 857.1175 | 851.489 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 9616.992 | 4843.776 | 4773.216 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 37 | 50000 | 4096 | 10 | 822.69 | 123.34 | 814.34 | 174.68 | 820.59 | 121.24 | 812.24 | 172.58 | 824.79 | 125.44 | 816.44 | 176.78 | 52.0146 | 48.78199 | 55.69483 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 722.232 | 325.836 | 396.396 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 38 | 50000 | 4096 | 10 | 814.34 | 174.68 | 811.41 | 326.47 | 812.24 | 172.58 | 809.31 | 324.37 | 816.44 | 176.78 | 813.51 | 328.57 | 151.8183 | 147.7621 | 155.9952 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2500.848 | 1215.144 | 1285.704 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 39 | 50000 | 4096 | 10 | 811.41 | 326.47 | 790.6 | 494.35 | 809.31 | 324.37 | 788.5 | 492.25 | 813.51 | 328.57 | 792.7 | 496.45 | 169.1649 | 165.5797 | 172.8798 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2470.776 | 1200.108 | 1270.668 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 40 | 50000 | 4096 | 10 | 790.6 | 494.35 | 744.52 | 615.91 | 788.5 | 492.25 | 742.42 | 613.81 | 792.7 | 496.45 | 746.62 | 618.01 | 130.0008 | 127.6771 | 132.55 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1268.064 | 598.752 | 669.312 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 41 | 50000 | 4096 | 10 | 744.52 | 615.91 | 823.45 | 713.63 | 742.42 | 613.81 | 821.35 | 711.53 | 746.62 | 618.01 | 825.55 | 715.73 | 125.6151 | 119.7103 | 131.5229 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2967.72 | 1448.58 | 1519.14 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 42 | 50000 | 4096 | 10 | 823.45 | 713.63 | 802.74 | 843.65 | 821.35 | 711.53 | 800.64 | 841.55 | 825.55 | 715.73 | 804.84 | 845.75 | 131.659 | 128.2622 | 135.2316 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1836.408 | 882.924 | 953.484 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 43 | 50000 | 4096 | 10 | 802.74 | 843.65 | 846.03 | 43.92 | 800.64 | 841.55 | 843.93 | 41.82 | 804.84 | 845.75 | 848.13 | 46.02 | 800.9008 | 804.8798 | 796.9462 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 12708.19 | 6389.376 | 6318.816 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 44 | 50000 | 4096 | 10 | 846.03 | 43.92 | 950.26 | 162.32 | 843.93 | 41.82 | 948.16 | 160.22 | 848.13 | 46.02 | 952.36 | 164.42 | 157.7417 | 151.8145 | 163.6699 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3740.184 | 1834.812 | 1905.372 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 45 | 50000 | 4096 | 10 | 950.26 | 162.32 | 866.53 | 388.48 | 948.16 | 160.22 | 864.43 | 386.38 | 952.36 | 164.42 | 868.63 | 390.58 | 241.1619 | 238.7424 | 243.7022 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2392.824 | 1161.132 | 1231.692 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 46 | 50000 | 4096 | 10 | 866.53 | 388.48 | 875.9 | 454.98 | 864.43 | 386.38 | 873.8 | 452.88 | 868.63 | 390.58 | 878 | 457.08 | 67.15688 | 62.51415 | 71.99052 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1274.616 | 602.028 | 672.588 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 47 | 50000 | 4096 | 10 | 875.9 | 454.98 | 872.69 | 670.51 | 873.8 | 452.88 | 870.59 | 668.41 | 878 | 457.08 | 874.79 | 672.61 | 215.5539 | 211.4599 | 219.7322 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3566.976 | 1748.208 | 1818.768 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 48 | 50000 | 4096 | 10 | 872.69 | 670.51 | 885.12 | 729.68 | 870.59 | 668.41 | 883.02 | 727.58 | 874.79 | 672.61 | 887.22 | 731.78 | 60.46151 | 55.58268 | 65.51575 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1202.88 | 566.16 | 636.72 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 49 | 50000 | 4096 | 10 | 885.12 | 729.68 | 948.53 | 903.27 | 883.02 | 727.58 | 946.43 | 901.17 | 887.22 | 731.78 | 950.63 | 905.37 | 184.8089 | 179.4402 | 190.2115 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3981.6 | 1955.52 | 2026.08 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 864823.7 | 426308.4 | 438525.9 |  |  |  |

Table 2: Random Calculations

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | **Dmin (d=42mm or 4.2cm)** | | | | **Dmax (d=42mm or 4.2cm)** | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SL NO. | E\_charge | K | Ets | x1 | y1 | x2 | y2 | (x1-d/2) | (y1-d/2) | (x2-d/2) | (y2-d/2) | (x1+d/2) | (y1+d/2) | (x2+d/2) | (y2+d/2) | dis(zero) | Dxy(min) | dxy(max) | E\_tx0 | E\_tx(min) | E\_tx(max) | E\_rx | max Eng | min Eng | Avg Eng | total0 | totalxy(min) | totalxy(max) |
| 1 | 50000 | 4096 | 10 | 0 | 0 | 45.11 | 21.33 | -2.1 | -2.1 | 43.01 | 19.23 | 2.1 | 2.1 | 47.21 | 23.43 | 49.89871 | 44.35161 | 55.52708 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1116.192 | 522.816 | 593.376 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 2 | 50000 | 4096 | 10 | 45.11 | 21.33 | 63.64 | 259.55 | 43.01 | 19.23 | 61.54 | 257.45 | 47.21 | 23.43 | 65.74 | 261.65 | 238.9396 | 234.4583 | 243.4833 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4313.4 | 2121.42 | 2191.98 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 3 | 50000 | 4096 | 10 | 63.64 | 259.55 | 67.73 | 383.79 | 61.54 | 257.45 | 65.63 | 381.69 | 65.74 | 261.65 | 69.83 | 385.89 | 124.3073 | 120.0401 | 128.7073 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2155.944 | 1042.692 | 1113.252 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 4 | 50000 | 4096 | 10 | 67.73 | 383.79 | 97.81 | 493.72 | 65.63 | 381.69 | 95.71 | 491.62 | 69.83 | 385.89 | 99.91 | 495.82 | 113.9711 | 108.8513 | 119.167 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2352.168 | 1140.804 | 1211.364 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 5 | 50000 | 4096 | 10 | 97.81 | 493.72 | 51.25 | 655.08 | 95.71 | 491.62 | 49.15 | 652.98 | 99.91 | 495.82 | 53.35 | 657.18 | 167.9431 | 165.154 | 170.8932 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1928.64 | 929.04 | 999.6 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 6 | 50000 | 4096 | 10 | 51.25 | 655.08 | 64.78 | 768.58 | 49.15 | 652.98 | 62.68 | 766.48 | 53.35 | 657.18 | 66.88 | 770.68 | 114.3036 | 109.6975 | 119.0279 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2134.104 | 1031.772 | 1102.332 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 7 | 50000 | 4096 | 10 | 64.78 | 768.58 | 84.31 | 868.49 | 62.68 | 766.48 | 82.21 | 866.39 | 66.88 | 770.68 | 86.41 | 870.59 | 101.8009 | 96.92994 | 106.7802 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2006.592 | 968.016 | 1038.576 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 8 | 50000 | 4096 | 10 | 84.31 | 868.49 | 204.73 | 128.24 | 82.21 | 866.39 | 202.63 | 126.14 | 86.41 | 870.59 | 206.83 | 130.34 | 749.9807 | 753.4672 | 746.5251 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 10413.14 | 5241.852 | 5171.292 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 9 | 50000 | 4096 | 10 | 204.73 | 128.24 | 198.99 | 214.27 | 202.63 | 126.14 | 196.89 | 212.17 | 206.83 | 130.34 | 201.09 | 216.37 | 86.22128 | 82.4315 | 90.24314 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1348.872 | 639.156 | 709.716 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 10 | 50000 | 4096 | 10 | 198.99 | 214.27 | 203.64 | 399.22 | 196.89 | 212.17 | 201.54 | 397.12 | 201.09 | 216.37 | 205.74 | 401.32 | 185.0084 | 180.7506 | 189.3569 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3185.28 | 1557.36 | 1627.92 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 11 | 50000 | 4096 | 10 | 203.64 | 399.22 | 209.13 | 493.65 | 201.54 | 397.12 | 207.03 | 491.55 | 205.74 | 401.32 | 211.23 | 495.75 | 94.58946 | 90.23922 | 99.10486 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1678.656 | 804.048 | 874.608 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 12 | 50000 | 4096 | 10 | 209.13 | 493.65 | 197.76 | 593.75 | 207.03 | 491.55 | 195.66 | 591.65 | 211.23 | 495.75 | 199.86 | 595.85 | 100.7437 | 97.15572 | 104.5462 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1490.664 | 710.052 | 780.612 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 13 | 50000 | 4096 | 10 | 197.76 | 593.75 | 202.38 | 738.36 | 195.66 | 591.65 | 200.28 | 736.26 | 199.86 | 595.85 | 204.48 | 740.46 | 144.6838 | 140.4106 | 149.0712 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2507.064 | 1218.252 | 1288.812 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 14 | 50000 | 4096 | 10 | 202.38 | 738.36 | 193.64 | 927.24 | 200.28 | 736.26 | 191.54 | 925.14 | 204.48 | 740.46 | 195.74 | 929.34 | 189.0821 | 185.1328 | 193.1334 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3026.352 | 1477.896 | 1548.456 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 15 | 50000 | 4096 | 10 | 193.64 | 927.24 | 344.76 | 124.03 | 191.54 | 925.14 | 342.66 | 121.93 | 195.74 | 929.34 | 346.86 | 126.13 | 817.3026 | 820.6683 | 813.9664 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 10955.11 | 5512.836 | 5442.276 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 16 | 50000 | 4096 | 10 | 344.76 | 124.03 | 330.16 | 166.54 | 342.66 | 121.93 | 328.06 | 164.44 | 346.86 | 126.13 | 332.26 | 168.64 | 44.9473 | 42.6743 | 47.85378 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 468.888 | 199.164 | 269.724 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 17 | 50000 | 4096 | 10 | 330.16 | 166.54 | 335.31 | 395.89 | 328.06 | 164.44 | 333.21 | 393.79 | 332.26 | 168.64 | 337.41 | 397.99 | 229.4078 | 225.152 | 233.7371 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3939.6 | 1934.52 | 2005.08 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 18 | 50000 | 4096 | 10 | 335.31 | 395.89 | 343.37 | 539.18 | 333.21 | 393.79 | 341.27 | 537.08 | 337.41 | 397.99 | 345.47 | 541.28 | 143.5165 | 139.1436 | 147.9987 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2542.68 | 1236.06 | 1306.62 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 19 | 50000 | 4096 | 10 | 343.37 | 539.18 | 361.28 | 631.64 | 341.27 | 537.08 | 359.18 | 629.54 | 345.47 | 541.28 | 363.38 | 633.74 | 94.17866 | 89.31848 | 99.15648 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1854.216 | 891.828 | 962.388 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 20 | 50000 | 4096 | 10 | 361.28 | 631.64 | 326.23 | 764.32 | 359.18 | 629.54 | 324.13 | 762.22 | 363.38 | 633.74 | 328.33 | 766.42 | 137.2315 | 134.3416 | 140.3134 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1640.184 | 784.812 | 855.372 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 21 | 50000 | 4096 | 10 | 326.23 | 764.32 | 331.17 | 889.91 | 324.13 | 762.22 | 329.07 | 887.81 | 328.33 | 766.42 | 333.27 | 892.01 | 125.6871 | 121.3923 | 130.1114 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2192.904 | 1061.172 | 1131.732 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 22 | 50000 | 4096 | 10 | 331.17 | 889.91 | 486.07 | 42.1 | 329.07 | 887.81 | 483.97 | 40 | 333.27 | 892.01 | 488.17 | 44.2 | 861.8444 | 865.235 | 858.4816 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 11640.89 | 5855.724 | 5785.164 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 23 | 50000 | 4096 | 10 | 486.07 | 42.1 | 486.35 | 210.48 | 483.97 | 40 | 484.25 | 208.38 | 488.17 | 44.2 | 488.45 | 212.58 | 168.3802 | 164.2268 | 172.6381 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2833.488 | 1381.464 | 1452.024 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 24 | 50000 | 4096 | 10 | 486.35 | 210.48 | 486.96 | 322.18 | 484.25 | 208.38 | 484.86 | 320.08 | 488.45 | 212.58 | 489.06 | 324.28 | 111.7017 | 107.5599 | 115.9998 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1886.808 | 908.124 | 978.684 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 25 | 50000 | 4096 | 10 | 486.96 | 322.18 | 518.55 | 548.14 | 484.86 | 320.08 | 516.45 | 546.04 | 489.06 | 324.28 | 520.65 | 550.24 | 228.1575 | 223.4451 | 232.9261 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4326.84 | 2128.14 | 2198.7 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 26 | 50000 | 4096 | 10 | 518.55 | 548.14 | 466.77 | 624.14 | 516.45 | 546.04 | 464.67 | 622.04 | 520.65 | 550.24 | 468.87 | 626.24 | 91.96286 | 91.04395 | 93.25179 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 406.896 | 168.168 | 238.728 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 27 | 50000 | 4096 | 10 | 466.77 | 624.14 | 478.89 | 788.42 | 464.67 | 622.04 | 476.79 | 786.32 | 468.87 | 626.24 | 480.99 | 790.52 | 164.7265 | 160.2758 | 169.2686 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2963.52 | 1446.48 | 1517.04 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 28 | 50000 | 4096 | 10 | 478.89 | 788.42 | 491.39 | 881.21 | 476.79 | 786.32 | 489.29 | 879.11 | 480.99 | 790.52 | 493.49 | 883.31 | 93.62817 | 88.97796 | 98.41722 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1768.872 | 849.156 | 919.716 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 29 | 50000 | 4096 | 10 | 491.39 | 881.21 | 624.13 | 68.1 | 489.29 | 879.11 | 622.03 | 66 | 493.49 | 883.31 | 626.23 | 70.2 | 823.8736 | 827.3561 | 820.4194 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 11430.22 | 5750.388 | 5679.828 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 30 | 50000 | 4096 | 10 | 624.13 | 68.1 | 636.1 | 232.2 | 622.03 | 66 | 634 | 230.1 | 626.23 | 70.2 | 638.2 | 234.3 | 164.536 | 160.0887 | 169.075 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2957.976 | 1443.708 | 1514.268 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 31 | 50000 | 4096 | 10 | 636.1 | 232.2 | 615.33 | 351.16 | 634 | 230.1 | 613.23 | 349.06 | 638.2 | 234.3 | 617.43 | 353.26 | 120.7596 | 117.4451 | 124.2697 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1649.592 | 789.516 | 860.076 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 32 | 50000 | 4096 | 10 | 615.33 | 351.16 | 598.74 | 548.44 | 613.23 | 349.06 | 596.64 | 546.34 | 617.43 | 353.26 | 600.84 | 550.54 | 197.9763 | 194.1961 | 201.8606 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3035.592 | 1482.516 | 1553.076 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 33 | 50000 | 4096 | 10 | 598.74 | 548.44 | 646.68 | 676.42 | 596.64 | 546.34 | 644.58 | 674.32 | 600.84 | 550.54 | 648.78 | 678.52 | 136.6643 | 131.2809 | 142.092 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2955.456 | 1442.448 | 1513.008 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 34 | 50000 | 4096 | 10 | 646.68 | 676.42 | 603.86 | 817.35 | 644.58 | 674.32 | 601.76 | 815.25 | 648.78 | 678.52 | 605.96 | 819.45 | 147.2916 | 144.589 | 150.1806 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1648.248 | 788.844 | 859.404 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 35 | 50000 | 4096 | 10 | 603.86 | 817.35 | 632.6 | 910.5 | 601.76 | 815.25 | 630.5 | 908.4 | 605.96 | 819.45 | 634.7 | 912.6 | 97.48287 | 92.27304 | 102.7719 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2047.752 | 988.596 | 1059.156 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 36 | 50000 | 4096 | 10 | 632.6 | 910.5 | 786.98 | 102.69 | 630.5 | 908.4 | 784.88 | 100.59 | 634.7 | 912.6 | 789.08 | 104.79 | 822.4294 | 825.781 | 819.1072 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 10977.62 | 5524.092 | 5453.532 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 37 | 50000 | 4096 | 10 | 786.98 | 102.69 | 790.92 | 228.97 | 784.88 | 100.59 | 788.82 | 226.87 | 789.08 | 104.79 | 793.02 | 231.07 | 126.3415 | 122.0803 | 130.7337 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2187.696 | 1058.568 | 1129.128 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 38 | 50000 | 4096 | 10 | 790.92 | 228.97 | 780.28 | 338.82 | 788.82 | 226.87 | 778.18 | 336.72 | 793.02 | 231.07 | 782.38 | 340.92 | 110.3641 | 106.6872 | 114.2317 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1666.728 | 798.084 | 868.644 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 39 | 50000 | 4096 | 10 | 780.28 | 338.82 | 758.48 | 508.11 | 778.18 | 336.72 | 756.38 | 506.01 | 782.38 | 340.92 | 760.58 | 510.21 | 170.6879 | 167.1248 | 174.3804 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2477.832 | 1203.636 | 1274.196 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 40 | 50000 | 4096 | 10 | 758.48 | 508.11 | 739.9 | 657.07 | 756.38 | 506.01 | 737.8 | 654.97 | 760.58 | 510.21 | 742 | 659.17 | 150.1143 | 146.5414 | 153.8336 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2190.384 | 1059.912 | 1130.472 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 41 | 50000 | 4096 | 10 | 739.9 | 657.07 | 766.05 | 716.61 | 737.8 | 654.97 | 763.95 | 714.51 | 742 | 659.17 | 768.15 | 718.71 | 65.02949 | 59.53418 | 70.59681 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1439.592 | 684.516 | 755.076 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 42 | 50000 | 4096 | 10 | 766.05 | 716.61 | 736.68 | 894.39 | 763.95 | 714.51 | 734.58 | 892.29 | 768.15 | 718.71 | 738.78 | 896.49 | 180.1897 | 176.7964 | 183.7124 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2493.288 | 1211.364 | 1281.924 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 43 | 50000 | 4096 | 10 | 736.68 | 894.39 | 928.14 | 118.74 | 734.58 | 892.29 | 926.04 | 116.64 | 738.78 | 896.49 | 930.24 | 120.84 | 798.9304 | 802.0177 | 795.8756 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 9814.392 | 4942.476 | 4871.916 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 44 | 50000 | 4096 | 10 | 928.14 | 118.74 | 905.64 | 263.62 | 926.04 | 116.64 | 903.54 | 261.52 | 930.24 | 120.84 | 907.74 | 265.72 | 146.6167 | 143.1913 | 150.199 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2055.984 | 992.712 | 1063.272 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 45 | 50000 | 4096 | 10 | 905.64 | 263.62 | 912.43 | 326.7 | 903.54 | 261.52 | 910.33 | 324.6 | 907.74 | 265.72 | 914.53 | 328.8 | 63.44439 | 58.93694 | 68.17168 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1173.816 | 551.628 | 622.188 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 46 | 50000 | 4096 | 10 | 912.43 | 326.7 | 899.61 | 457.34 | 910.33 | 324.6 | 897.51 | 455.24 | 914.53 | 328.8 | 901.71 | 459.44 | 131.2675 | 127.5804 | 135.1152 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1979.376 | 954.408 | 1024.968 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 47 | 50000 | 4096 | 10 | 899.61 | 457.34 | 909.29 | 627.76 | 897.51 | 455.24 | 907.19 | 625.66 | 901.71 | 459.44 | 911.39 | 629.86 | 170.6947 | 166.3103 | 175.1708 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3025.68 | 1477.56 | 1548.12 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 48 | 50000 | 4096 | 10 | 909.29 | 627.76 | 925.5 | 803.55 | 907.19 | 625.66 | 923.4 | 801.45 | 911.39 | 629.86 | 927.6 | 805.65 | 176.5358 | 172.0098 | 181.1435 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3225.6 | 1577.52 | 1648.08 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 49 | 50000 | 4096 | 10 | 925.5 | 803.55 | 930.02 | 928.02 | 923.4 | 801.45 | 927.92 | 925.92 | 927.6 | 805.65 | 932.12 | 930.12 | 124.552 | 120.2704 | 128.9651 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2167.032 | 1048.236 | 1118.796 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 1 | 50000 | 4096 | 10 | 0 | 0 | 70.17 | 70.54 | -2.1 | -2.1 | 68.07 | 68.44 | 2.1 | 2.1 | 72.27 | 72.64 | 99.49734 | 93.55766 | 105.437 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2363.928 | 1146.684 | 1217.244 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 2 | 50000 | 4096 | 10 | 70.17 | 70.54 | 59.35 | 263.86 | 68.07 | 68.44 | 57.25 | 261.76 | 72.27 | 72.64 | 61.45 | 265.96 | 193.6226 | 189.7155 | 197.6309 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3066 | 1497.72 | 1568.28 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 3 | 50000 | 4096 | 10 | 59.35 | 263.86 | 55.89 | 395.89 | 57.25 | 261.76 | 53.79 | 393.79 | 61.45 | 265.96 | 57.99 | 397.99 | 132.0753 | 128.0593 | 136.232 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2159.976 | 1044.708 | 1115.268 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 4 | 50000 | 4096 | 10 | 55.89 | 395.89 | 102.43 | 558.7 | 53.79 | 393.79 | 100.33 | 556.6 | 57.99 | 397.99 | 104.53 | 560.8 | 169.3312 | 164.164 | 174.5477 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3517.08 | 1723.26 | 1793.82 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 5 | 50000 | 4096 | 10 | 102.43 | 558.7 | 46.02 | 670.15 | 100.33 | 556.6 | 43.92 | 668.05 | 104.53 | 560.8 | 48.12 | 672.25 | 124.9127 | 123.1915 | 126.889 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 924.672 | 427.056 | 497.616 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 6 | 50000 | 4096 | 10 | 46.02 | 670.15 | 60.9 | 740.09 | 43.92 | 668.05 | 58.8 | 737.99 | 48.12 | 672.25 | 63 | 742.19 | 71.50537 | 66.60188 | 76.55577 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1424.976 | 677.208 | 747.768 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 7 | 50000 | 4096 | 10 | 60.9 | 740.09 | 81.31 | 911.63 | 58.8 | 737.99 | 79.21 | 909.53 | 63 | 742.19 | 83.41 | 913.73 | 172.7499 | 168.1233 | 177.4548 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3224.76 | 1577.1 | 1647.66 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 8 | 50000 | 4096 | 10 | 81.31 | 911.63 | 216.35 | 20.32 | 79.21 | 909.53 | 214.25 | 18.22 | 83.41 | 913.73 | 218.45 | 22.42 | 901.4817 | 905.0178 | 897.971 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 12705.34 | 6387.948 | 6317.388 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 9 | 50000 | 4096 | 10 | 216.35 | 20.32 | 210.59 | 210.28 | 214.25 | 18.22 | 208.49 | 208.18 | 218.45 | 22.42 | 212.69 | 212.38 | 190.0473 | 186.0268 | 194.1663 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3094.56 | 1512 | 1582.56 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 10 | 50000 | 4096 | 10 | 210.59 | 210.28 | 217.93 | 413.57 | 208.49 | 208.18 | 215.83 | 411.47 | 212.69 | 212.38 | 220.03 | 415.67 | 203.4225 | 199.1148 | 207.8107 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3538.584 | 1734.012 | 1804.572 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 11 | 50000 | 4096 | 10 | 217.93 | 413.57 | 188.17 | 444.5 | 215.83 | 411.47 | 186.07 | 442.4 | 220.03 | 415.67 | 190.27 | 446.6 | 42.92228 | 43.21776 | 43.44457 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 19.656 | 25.452 | 45.108 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 12 | 50000 | 4096 | 10 | 188.17 | 444.5 | 216.58 | 640.17 | 186.07 | 442.4 | 214.48 | 638.07 | 190.27 | 446.6 | 218.68 | 642.27 | 197.7217 | 192.9945 | 202.5128 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3764.544 | 1846.992 | 1917.552 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 13 | 50000 | 4096 | 10 | 216.58 | 640.17 | 221.16 | 771.06 | 214.48 | 638.07 | 219.06 | 768.96 | 218.68 | 642.27 | 223.26 | 773.16 | 130.9701 | 126.6906 | 135.375 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2275.896 | 1102.668 | 1173.228 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 14 | 50000 | 4096 | 10 | 221.16 | 771.06 | 191.52 | 861.54 | 219.06 | 768.96 | 189.42 | 859.44 | 223.26 | 773.16 | 193.62 | 863.64 | 95.21113 | 92.67893 | 98.03824 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1022.112 | 475.776 | 546.336 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 15 | 50000 | 4096 | 10 | 191.52 | 861.54 | 349.16 | 29.15 | 189.42 | 859.44 | 347.06 | 27.05 | 193.62 | 863.64 | 351.26 | 31.25 | 847.1856 | 850.5449 | 843.8548 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 11335.8 | 5703.18 | 5632.62 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 16 | 50000 | 4096 | 10 | 349.16 | 29.15 | 339.44 | 203.99 | 347.06 | 27.05 | 337.34 | 201.89 | 351.26 | 31.25 | 341.54 | 206.09 | 175.11 | 171.2068 | 179.1251 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2774.016 | 1351.728 | 1422.288 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 17 | 50000 | 4096 | 10 | 339.44 | 203.99 | 350.16 | 350.37 | 337.34 | 201.89 | 348.06 | 348.27 | 341.54 | 206.09 | 352.26 | 352.47 | 146.772 | 142.3294 | 151.3174 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2639.28 | 1284.36 | 1354.92 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 18 | 50000 | 4096 | 10 | 350.16 | 350.37 | 357.55 | 553.63 | 348.06 | 348.27 | 355.45 | 551.53 | 352.26 | 352.47 | 359.65 | 555.73 | 203.3943 | 199.0856 | 207.7835 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3538.92 | 1734.18 | 1804.74 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 19 | 50000 | 4096 | 10 | 357.55 | 553.63 | 338.36 | 634.62 | 355.45 | 551.53 | 336.26 | 632.52 | 359.65 | 555.73 | 340.46 | 636.72 | 83.23242 | 80.27326 | 86.49876 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1038.24 | 483.84 | 554.4 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 20 | 50000 | 4096 | 10 | 338.36 | 634.62 | 322.86 | 800.18 | 336.26 | 632.52 | 320.76 | 798.08 | 340.46 | 636.72 | 324.96 | 802.28 | 166.284 | 162.5581 | 170.1357 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2521.008 | 1225.224 | 1295.784 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 21 | 50000 | 4096 | 10 | 322.86 | 800.18 | 368.48 | 918.1 | 320.76 | 798.08 | 366.38 | 916 | 324.96 | 802.28 | 370.58 | 920.2 | 126.437 | 121.0283 | 131.8913 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2747.472 | 1338.456 | 1409.016 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 22 | 50000 | 4096 | 10 | 368.48 | 918.1 | 471.68 | 95 | 366.38 | 916 | 469.58 | 92.9 | 370.58 | 920.2 | 473.78 | 97.1 | 829.5444 | 833.2024 | 825.9128 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 12094.32 | 6082.44 | 6011.88 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 23 | 50000 | 4096 | 10 | 471.68 | 95 | 484.2 | 184.97 | 469.58 | 92.9 | 482.1 | 182.87 | 473.78 | 97.1 | 486.3 | 187.07 | 90.83695 | 86.17259 | 95.64281 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1721.832 | 825.636 | 896.196 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 24 | 50000 | 4096 | 10 | 484.2 | 184.97 | 496.87 | 372.12 | 482.1 | 182.87 | 494.77 | 370.02 | 486.3 | 187.07 | 498.97 | 374.22 | 187.5784 | 183.146 | 192.0922 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3356.976 | 1643.208 | 1713.768 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 25 | 50000 | 4096 | 10 | 496.87 | 372.12 | 521.05 | 471.06 | 494.77 | 370.02 | 518.95 | 468.96 | 498.97 | 374.22 | 523.15 | 473.16 | 101.8518 | 96.8239 | 106.9733 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2068.416 | 998.928 | 1069.488 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 26 | 50000 | 4096 | 10 | 521.05 | 471.06 | 457.12 | 655.97 | 518.95 | 468.96 | 455.02 | 653.87 | 523.15 | 473.16 | 459.22 | 658.07 | 195.6496 | 193.1264 | 198.3186 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2032.464 | 980.952 | 1051.512 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 27 | 50000 | 4096 | 10 | 457.12 | 655.97 | 477.83 | 755.81 | 455.02 | 653.87 | 475.73 | 753.71 | 459.22 | 658.07 | 479.93 | 757.91 | 101.9653 | 97.05457 | 106.9805 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2025.24 | 977.34 | 1047.9 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 28 | 50000 | 4096 | 10 | 477.83 | 755.81 | 512.7 | 950.95 | 475.73 | 753.71 | 510.6 | 948.85 | 479.93 | 757.91 | 514.8 | 953.05 | 198.231 | 193.3875 | 203.1327 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3864.168 | 1896.804 | 1967.364 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 29 | 50000 | 4096 | 10 | 512.7 | 950.95 | 625.24 | 81.39 | 510.6 | 948.85 | 623.14 | 79.29 | 514.8 | 953.05 | 627.34 | 83.49 | 876.8123 | 880.4511 | 873.1988 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 12717.94 | 6394.248 | 6323.688 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 30 | 50000 | 4096 | 10 | 625.24 | 81.39 | 596.74 | 152.24 | 623.14 | 79.29 | 594.64 | 150.14 | 627.34 | 83.49 | 598.84 | 154.34 | 76.36735 | 74.23956 | 78.88595 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 711.48 | 320.46 | 391.02 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 31 | 50000 | 4096 | 10 | 596.74 | 152.24 | 610.81 | 366.61 | 594.64 | 150.14 | 608.71 | 364.51 | 598.84 | 154.34 | 612.91 | 368.71 | 214.8312 | 210.4016 | 219.3323 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3837.792 | 1883.616 | 1954.176 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 32 | 50000 | 4096 | 10 | 610.81 | 366.61 | 643.65 | 473.73 | 608.71 | 364.51 | 641.55 | 471.63 | 612.91 | 368.71 | 645.75 | 475.83 | 112.0409 | 106.8306 | 117.3205 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2351.328 | 1140.384 | 1210.944 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 33 | 50000 | 4096 | 10 | 643.65 | 473.73 | 638.75 | 628.18 | 641.55 | 471.63 | 636.65 | 626.08 | 645.75 | 475.83 | 640.85 | 630.28 | 154.5277 | 150.5253 | 158.6515 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2512.44 | 1220.94 | 1291.5 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 34 | 50000 | 4096 | 10 | 638.75 | 628.18 | 616.94 | 814.86 | 636.65 | 626.08 | 614.84 | 812.76 | 640.85 | 630.28 | 619.04 | 816.96 | 187.9497 | 184.3244 | 191.6906 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2769.816 | 1349.628 | 1420.188 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 35 | 50000 | 4096 | 10 | 616.94 | 814.86 | 666.17 | 936.77 | 614.84 | 812.76 | 664.07 | 934.67 | 619.04 | 816.96 | 668.27 | 938.87 | 131.4749 | 126.0291 | 136.9617 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2875.152 | 1402.296 | 1472.856 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 36 | 50000 | 4096 | 10 | 666.17 | 936.77 | 780.99 | 56.61 | 664.07 | 934.67 | 778.89 | 54.51 | 668.27 | 938.87 | 783.09 | 58.71 | 887.6177 | 891.2516 | 884.0089 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 12857.71 | 6464.136 | 6393.576 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 37 | 50000 | 4096 | 10 | 780.99 | 56.61 | 755.52 | 211.14 | 778.89 | 54.51 | 753.42 | 209.04 | 783.09 | 58.71 | 757.62 | 213.24 | 156.6149 | 153.23 | 160.1488 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2168.208 | 1048.824 | 1119.384 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 38 | 50000 | 4096 | 10 | 755.52 | 211.14 | 774.02 | 412.22 | 753.42 | 209.04 | 771.92 | 410.12 | 757.62 | 213.24 | 776.12 | 414.32 | 201.9292 | 197.3986 | 206.5313 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3688.944 | 1809.192 | 1879.752 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 39 | 50000 | 4096 | 10 | 774.02 | 412.22 | 743.01 | 453.89 | 771.92 | 410.12 | 740.91 | 451.79 | 776.12 | 414.32 | 745.11 | 455.99 | 51.94236 | 51.41736 | 53.13034 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 179.088 | 54.264 | 124.824 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 40 | 50000 | 4096 | 10 | 743.01 | 453.89 | 740.49 | 618.01 | 740.91 | 451.79 | 738.39 | 615.91 | 745.11 | 455.99 | 742.59 | 620.11 | 164.1393 | 160.0611 | 168.3284 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2714.88 | 1322.16 | 1392.72 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 41 | 50000 | 4096 | 10 | 740.49 | 618.01 | 763.48 | 793.86 | 738.39 | 615.91 | 761.38 | 791.76 | 742.59 | 620.11 | 765.58 | 795.96 | 177.3464 | 172.6754 | 182.0915 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3340.512 | 1634.976 | 1705.536 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 42 | 50000 | 4096 | 10 | 763.48 | 793.86 | 751.77 | 949.65 | 761.38 | 791.76 | 749.67 | 947.55 | 765.58 | 795.96 | 753.87 | 951.75 | 156.2295 | 152.4226 | 160.1662 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2420.544 | 1174.992 | 1245.552 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 43 | 50000 | 4096 | 10 | 751.77 | 949.65 | 933.42 | 123.53 | 749.67 | 947.55 | 931.32 | 121.43 | 753.87 | 951.75 | 935.52 | 125.63 | 845.8552 | 849.07 | 842.67 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 10827.1 | 5448.828 | 5378.268 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 44 | 50000 | 4096 | 10 | 933.42 | 123.53 | 890.72 | 208.79 | 931.32 | 121.43 | 888.62 | 206.69 | 935.52 | 125.63 | 892.82 | 210.89 | 95.3549 | 93.65006 | 97.39272 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 715.008 | 322.224 | 392.784 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 45 | 50000 | 4096 | 10 | 890.72 | 208.79 | 902.82 | 396.37 | 888.62 | 206.69 | 900.72 | 394.27 | 892.82 | 210.89 | 904.92 | 398.47 | 187.9699 | 183.5501 | 192.4714 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3354.624 | 1642.032 | 1712.592 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 46 | 50000 | 4096 | 10 | 902.82 | 396.37 | 896.37 | 446.34 | 900.72 | 394.27 | 894.27 | 444.24 | 904.92 | 398.47 | 898.47 | 448.44 | 50.38456 | 46.99272 | 54.21671 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 731.136 | 330.288 | 400.848 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 47 | 50000 | 4096 | 10 | 896.37 | 446.34 | 873.92 | 583.21 | 894.27 | 444.24 | 871.82 | 581.11 | 898.47 | 448.44 | 876.02 | 585.31 | 138.699 | 135.3202 | 142.2456 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1922.256 | 925.848 | 996.408 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 48 | 50000 | 4096 | 10 | 873.92 | 583.21 | 888.1 | 718.97 | 871.82 | 581.11 | 886 | 716.87 | 876.02 | 585.31 | 890.2 | 721.07 | 136.4985 | 131.938 | 141.1617 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2518.992 | 1224.216 | 1294.776 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 49 | 50000 | 4096 | 10 | 888.1 | 718.97 | 935.95 | 853.06 | 886 | 716.87 | 933.85 | 850.96 | 890.2 | 721.07 | 938.05 | 855.16 | 142.3719 | 137.0282 | 147.761 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3056.592 | 1493.016 | 1563.576 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 1 | 50000 | 4096 | 10 | 0 | 0 | 5.35 | 105.14 | -2.1 | -2.1 | 3.25 | 103.04 | 2.1 | 2.1 | 7.45 | 107.24 | 105.276 | 100.9466 | 109.7563 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1856.232 | 892.836 | 963.396 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 2 | 50000 | 4096 | 10 | 5.35 | 105.14 | 50.79 | 250.45 | 3.25 | 103.04 | 48.69 | 248.35 | 7.45 | 107.24 | 52.89 | 252.55 | 152.2491 | 147.0128 | 157.5353 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3204.6 | 1567.02 | 1637.58 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 3 | 50000 | 4096 | 10 | 50.79 | 250.45 | 74.14 | 418.08 | 48.69 | 248.35 | 72.04 | 415.98 | 52.89 | 252.55 | 76.24 | 420.18 | 169.2485 | 164.5481 | 174.0246 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3208.464 | 1568.952 | 1639.512 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 4 | 50000 | 4096 | 10 | 74.14 | 418.08 | 33.83 | 469.87 | 72.04 | 415.98 | 31.73 | 467.77 | 76.24 | 420.18 | 35.93 | 471.97 | 65.6285 | 65.16094 | 66.62441 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 192.864 | 61.152 | 131.712 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 5 | 50000 | 4096 | 10 | 33.83 | 469.87 | 40.43 | 560.2 | 31.73 | 467.77 | 38.33 | 558.1 | 35.93 | 471.97 | 42.53 | 562.3 | 90.57079 | 86.16343 | 95.14495 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1628.424 | 778.932 | 849.492 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 6 | 50000 | 4096 | 10 | 40.43 | 560.2 | 34.08 | 738.96 | 38.33 | 558.1 | 31.98 | 736.86 | 42.53 | 562.3 | 36.18 | 741.06 | 178.8727 | 174.8785 | 182.9726 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2896.488 | 1412.964 | 1483.524 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 7 | 50000 | 4096 | 10 | 34.08 | 738.96 | 81.08 | 845.35 | 31.98 | 736.86 | 78.98 | 843.25 | 36.18 | 741.06 | 83.18 | 847.45 | 116.3092 | 110.791 | 121.8671 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2576.952 | 1253.196 | 1323.756 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 8 | 50000 | 4096 | 10 | 81.08 | 845.35 | 240.64 | 116.31 | 78.98 | 843.25 | 238.54 | 114.21 | 83.18 | 847.45 | 242.74 | 118.41 | 746.2967 | 749.5183 | 743.1086 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 9567.264 | 4818.912 | 4748.352 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 9 | 50000 | 4096 | 10 | 240.64 | 116.31 | 209.55 | 169.02 | 238.54 | 114.21 | 207.45 | 166.92 | 242.74 | 118.41 | 211.65 | 171.12 | 61.19585 | 59.98837 | 62.94299 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 363.216 | 146.328 | 216.888 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 10 | 50000 | 4096 | 10 | 209.55 | 169.02 | 184.93 | 368.06 | 207.45 | 166.92 | 182.83 | 365.96 | 211.65 | 171.12 | 187.03 | 370.16 | 200.5569 | 196.9599 | 204.2632 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2930.256 | 1429.848 | 1500.408 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 11 | 50000 | 4096 | 10 | 184.93 | 368.06 | 227.43 | 543.04 | 182.83 | 365.96 | 225.33 | 540.94 | 187.03 | 370.16 | 229.53 | 545.14 | 180.0673 | 175.022 | 185.1658 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3653.664 | 1791.552 | 1862.112 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 12 | 50000 | 4096 | 10 | 227.43 | 543.04 | 192.21 | 648.86 | 225.33 | 540.94 | 190.11 | 646.76 | 229.53 | 545.14 | 194.31 | 650.96 | 111.5272 | 108.998 | 114.3094 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1186.08 | 557.76 | 628.32 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 13 | 50000 | 4096 | 10 | 192.21 | 648.86 | 246.71 | 796.36 | 190.11 | 646.76 | 244.61 | 794.26 | 194.31 | 650.96 | 248.81 | 798.46 | 157.2466 | 151.8716 | 162.6609 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3393.6 | 1661.52 | 1732.08 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 14 | 50000 | 4096 | 10 | 246.71 | 796.36 | 186.53 | 904.46 | 244.61 | 794.26 | 184.43 | 902.36 | 248.81 | 798.46 | 188.63 | 906.56 | 123.7224 | 122.2293 | 125.4793 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 805.056 | 367.248 | 437.808 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 15 | 50000 | 4096 | 10 | 186.53 | 904.46 | 321.69 | 57.55 | 184.43 | 902.36 | 319.59 | 55.45 | 188.63 | 906.56 | 323.79 | 59.65 | 857.6274 | 861.1264 | 854.1553 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 11957.4 | 6013.98 | 5943.42 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 16 | 50000 | 4096 | 10 | 321.69 | 57.55 | 339.78 | 259.59 | 319.59 | 55.45 | 337.68 | 257.49 | 323.79 | 59.65 | 341.88 | 261.69 | 202.8482 | 198.327 | 207.441 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3698.184 | 1813.812 | 1884.372 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 17 | 50000 | 4096 | 10 | 339.78 | 259.59 | 359.18 | 403.41 | 337.68 | 257.49 | 357.08 | 401.31 | 341.88 | 261.69 | 361.28 | 405.51 | 145.1225 | 140.445 | 149.8896 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2742.096 | 1335.768 | 1406.328 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 18 | 50000 | 4096 | 10 | 359.18 | 403.41 | 377.11 | 493.71 | 357.08 | 401.31 | 375.01 | 491.61 | 361.28 | 405.51 | 379.21 | 495.81 | 92.06289 | 87.18786 | 97.05662 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1818.264 | 873.852 | 944.412 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 19 | 50000 | 4096 | 10 | 377.11 | 493.71 | 371.27 | 681.74 | 375.01 | 491.61 | 369.17 | 679.64 | 379.21 | 495.81 | 373.37 | 683.84 | 188.1207 | 184.104 | 192.237 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3060.792 | 1495.116 | 1565.676 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 20 | 50000 | 4096 | 10 | 371.27 | 681.74 | 316.25 | 754.55 | 369.17 | 679.64 | 314.15 | 752.45 | 373.37 | 683.84 | 318.35 | 756.65 | 91.2606 | 90.633 | 92.26707 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 298.872 | 114.156 | 184.716 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 21 | 50000 | 4096 | 10 | 316.25 | 754.55 | 323.83 | 937.96 | 314.15 | 752.45 | 321.73 | 935.86 | 318.35 | 756.65 | 325.93 | 940.06 | 183.5666 | 179.2419 | 187.9795 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3208.632 | 1569.036 | 1639.596 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 22 | 50000 | 4096 | 10 | 323.83 | 937.96 | 471.16 | 87.94 | 321.73 | 935.86 | 469.06 | 85.84 | 325.93 | 940.06 | 473.26 | 90.04 | 862.6935 | 866.1282 | 859.2862 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 11805.19 | 5937.876 | 5867.316 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 23 | 50000 | 4096 | 10 | 471.16 | 87.94 | 506.97 | 270.43 | 469.06 | 85.84 | 504.87 | 268.33 | 473.26 | 90.04 | 509.07 | 272.53 | 185.9703 | 181.0705 | 190.9292 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3667.44 | 1798.44 | 1869 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 24 | 50000 | 4096 | 10 | 506.97 | 270.43 | 496.94 | 300.89 | 504.87 | 268.33 | 494.84 | 298.79 | 509.07 | 272.53 | 499.04 | 302.99 | 32.06887 | 29.86772 | 35.1469 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 343.224 | 136.332 | 206.892 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 25 | 50000 | 4096 | 10 | 496.94 | 300.89 | 498.48 | 552.85 | 494.84 | 298.79 | 496.38 | 550.75 | 499.04 | 302.99 | 500.58 | 554.95 | 251.9647 | 247.7743 | 256.2243 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4258.8 | 2094.12 | 2164.68 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 26 | 50000 | 4096 | 10 | 498.48 | 552.85 | 491.09 | 649.09 | 496.38 | 550.75 | 488.99 | 646.99 | 500.58 | 554.95 | 493.19 | 651.19 | 96.52331 | 92.76686 | 100.4906 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1492.68 | 711.06 | 781.62 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 27 | 50000 | 4096 | 10 | 491.09 | 649.09 | 506.2 | 704.46 | 488.99 | 646.99 | 504.1 | 702.36 | 493.19 | 651.19 | 508.3 | 706.56 | 57.39468 | 52.32014 | 62.62157 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1184.064 | 556.752 | 627.312 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 28 | 50000 | 4096 | 10 | 506.2 | 704.46 | 513.7 | 847.28 | 504.1 | 702.36 | 511.6 | 845.18 | 508.3 | 706.56 | 515.8 | 849.38 | 143.0168 | 138.6593 | 147.4848 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2525.376 | 1227.408 | 1297.968 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 29 | 50000 | 4096 | 10 | 513.7 | 847.28 | 594.74 | 78.35 | 511.6 | 845.18 | 592.64 | 76.25 | 515.8 | 849.38 | 596.84 | 80.45 | 773.1887 | 776.9391 | 769.4659 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 11556.55 | 5813.556 | 5742.996 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 30 | 50000 | 4096 | 10 | 594.74 | 78.35 | 659.39 | 219.52 | 592.64 | 76.25 | 657.29 | 217.42 | 596.84 | 80.45 | 661.49 | 221.62 | 155.2694 | 149.7163 | 160.8501 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3457.776 | 1693.608 | 1764.168 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 31 | 50000 | 4096 | 10 | 659.39 | 219.52 | 604.69 | 368.73 | 657.29 | 217.42 | 602.59 | 366.63 | 661.49 | 221.62 | 606.79 | 370.83 | 158.9205 | 156.5155 | 161.5081 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1587.768 | 758.604 | 829.164 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 32 | 50000 | 4096 | 10 | 604.69 | 368.73 | 591.91 | 541.51 | 602.59 | 366.63 | 589.81 | 539.41 | 606.79 | 370.83 | 594.01 | 543.61 | 173.252 | 169.433 | 177.1879 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2688 | 1308.72 | 1379.28 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 33 | 50000 | 4096 | 10 | 591.91 | 541.51 | 661.11 | 611.85 | 589.81 | 539.41 | 659.01 | 609.75 | 594.01 | 543.61 | 663.21 | 613.95 | 98.67297 | 92.73349 | 104.6125 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2344.272 | 1136.856 | 1207.416 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 34 | 50000 | 4096 | 10 | 661.11 | 611.85 | 603.21 | 713.11 | 659.01 | 609.75 | 601.11 | 711.01 | 663.21 | 613.95 | 605.31 | 715.21 | 116.6447 | 115.2261 | 118.3448 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 728.448 | 328.944 | 399.504 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 35 | 50000 | 4096 | 10 | 603.21 | 713.11 | 616.65 | 926.9 | 601.11 | 711.01 | 614.55 | 924.8 | 605.31 | 715.21 | 618.75 | 929 | 214.212 | 209.7936 | 218.7026 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3817.464 | 1873.452 | 1944.012 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 36 | 50000 | 4096 | 10 | 616.65 | 926.9 | 776.84 | 93 | 614.55 | 924.8 | 774.74 | 90.9 | 618.75 | 929 | 778.94 | 95.1 | 849.1467 | 852.4931 | 845.8287 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 11318.33 | 5694.444 | 5623.884 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 37 | 50000 | 4096 | 10 | 776.84 | 93 | 802.56 | 216.14 | 774.74 | 90.9 | 800.46 | 214.04 | 778.94 | 95.1 | 804.66 | 218.24 | 125.7974 | 120.8711 | 130.8078 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2500.848 | 1215.144 | 1285.704 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 38 | 50000 | 4096 | 10 | 802.56 | 216.14 | 785.14 | 383.45 | 800.46 | 214.04 | 783.04 | 381.35 | 804.66 | 218.24 | 787.24 | 385.55 | 168.2144 | 164.5366 | 172.0187 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2518.152 | 1223.796 | 1294.356 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 39 | 50000 | 4096 | 10 | 785.14 | 383.45 | 767.28 | 461.77 | 783.04 | 381.35 | 765.18 | 459.67 | 787.24 | 385.55 | 769.38 | 463.87 | 80.33058 | 77.33316 | 83.64297 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1015.728 | 472.584 | 543.144 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 40 | 50000 | 4096 | 10 | 767.28 | 461.77 | 757.51 | 691.22 | 765.18 | 459.67 | 755.41 | 689.12 | 769.38 | 463.87 | 759.61 | 693.32 | 229.6579 | 225.6828 | 233.7164 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3690.624 | 1810.032 | 1880.592 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 41 | 50000 | 4096 | 10 | 757.51 | 691.22 | 773.74 | 723.59 | 755.41 | 689.12 | 771.64 | 721.49 | 759.61 | 693.32 | 775.84 | 725.69 | 36.21091 | 30.63119 | 41.88973 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 816.48 | 372.96 | 443.52 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 42 | 50000 | 4096 | 10 | 773.74 | 723.59 | 711.79 | 869.67 | 771.64 | 721.49 | 709.69 | 867.57 | 775.84 | 725.69 | 713.89 | 871.77 | 158.6732 | 156.5431 | 160.9942 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1413.384 | 671.412 | 741.972 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 43 | 50000 | 4096 | 10 | 711.79 | 869.67 | 895.85 | 71.1 | 709.69 | 867.57 | 893.75 | 69 | 713.89 | 871.77 | 897.95 | 73.2 | 819.5072 | 822.672 | 816.3734 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 10323.77 | 5197.164 | 5126.604 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 44 | 50000 | 4096 | 10 | 895.85 | 71.1 | 939.51 | 257.76 | 893.75 | 69 | 937.41 | 255.66 | 897.95 | 73.2 | 941.61 | 259.86 | 191.6981 | 186.6782 | 196.7692 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3869.376 | 1899.408 | 1969.968 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 45 | 50000 | 4096 | 10 | 939.51 | 257.76 | 924.36 | 362.63 | 937.41 | 255.66 | 922.26 | 360.53 | 941.61 | 259.86 | 926.46 | 364.73 | 105.9587 | 102.5128 | 109.6183 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1507.296 | 718.368 | 788.928 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 46 | 50000 | 4096 | 10 | 924.36 | 362.63 | 916.9 | 466.52 | 922.26 | 360.53 | 914.8 | 464.42 | 926.46 | 364.73 | 919 | 468.62 | 104.1575 | 100.3696 | 108.1391 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1620.024 | 774.732 | 845.292 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 47 | 50000 | 4096 | 10 | 916.9 | 466.52 | 940.87 | 578.47 | 914.8 | 464.42 | 938.77 | 576.37 | 919 | 468.62 | 942.97 | 580.57 | 114.4874 | 109.5487 | 119.5172 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2283.456 | 1106.448 | 1177.008 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 48 | 50000 | 4096 | 10 | 940.87 | 578.47 | 878.24 | 828.34 | 938.77 | 576.37 | 876.14 | 826.24 | 942.97 | 580.57 | 880.34 | 830.44 | 257.5996 | 254.5977 | 260.7022 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3145.632 | 1537.536 | 1608.096 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 49 | 50000 | 4096 | 10 | 878.24 | 828.34 | 941.74 | 891.79 | 876.14 | 826.24 | 939.64 | 889.69 | 880.34 | 830.44 | 943.84 | 893.89 | 89.76721 | 83.82752 | 95.70691 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2132.76 | 1031.1 | 1101.66 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 1 | 50000 | 4096 | 10 | 0 | 0 | 99.73 | 103.58 | -2.1 | -2.1 | 97.63 | 101.48 | 2.1 | 2.1 | 101.83 | 105.68 | 143.7877 | 137.8491 | 149.7263 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3415.608 | 1672.524 | 1743.084 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 2 | 50000 | 4096 | 10 | 99.73 | 103.58 | 77.78 | 273.27 | 97.63 | 101.48 | 75.68 | 271.17 | 101.83 | 105.68 | 79.88 | 275.37 | 171.1038 | 167.5433 | 174.7936 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2482.032 | 1205.736 | 1276.296 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 3 | 50000 | 4096 | 10 | 77.78 | 273.27 | 45.08 | 305.28 | 75.68 | 271.17 | 42.98 | 303.18 | 79.88 | 275.37 | 47.18 | 307.38 | 45.75948 | 46.20613 | 46.08052 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 11.592 | 41.076 | 29.484 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 4 | 50000 | 4096 | 10 | 45.08 | 305.28 | 12 | 495.98 | 42.98 | 303.18 | 9.9 | 493.88 | 47.18 | 307.38 | 14.1 | 498.08 | 193.5479 | 190.1895 | 197.0281 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2648.016 | 1288.728 | 1359.288 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 5 | 50000 | 4096 | 10 | 12 | 495.98 | 71.07 | 635.67 | 9.9 | 493.88 | 68.97 | 633.57 | 14.1 | 498.08 | 73.17 | 637.77 | 151.666 | 146.1789 | 157.186 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3339.168 | 1634.304 | 1704.864 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 6 | 50000 | 4096 | 10 | 71.07 | 635.67 | 107.82 | 823.46 | 68.97 | 633.57 | 105.72 | 821.36 | 73.17 | 637.77 | 109.92 | 825.56 | 191.3522 | 186.4532 | 196.3086 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3772.272 | 1850.856 | 1921.416 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 7 | 50000 | 4096 | 10 | 107.82 | 823.46 | 93.33 | 963.36 | 105.72 | 821.36 | 91.23 | 961.26 | 109.92 | 825.56 | 95.43 | 965.46 | 140.6484 | 136.981 | 144.4669 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2106.888 | 1018.164 | 1088.724 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 8 | 50000 | 4096 | 10 | 93.33 | 963.36 | 149.52 | 53.21 | 91.23 | 961.26 | 147.42 | 51.11 | 95.43 | 965.46 | 151.62 | 55.31 | 911.8829 | 915.8269 | 907.9605 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 14346.53 | 7208.544 | 7137.984 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 9 | 50000 | 4096 | 10 | 149.52 | 53.21 | 193.87 | 229.13 | 147.42 | 51.11 | 191.77 | 227.03 | 151.62 | 55.31 | 195.97 | 231.23 | 181.4243 | 176.3513 | 186.5484 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3700.536 | 1814.988 | 1885.548 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 10 | 50000 | 4096 | 10 | 193.87 | 229.13 | 228.57 | 404.44 | 191.77 | 227.03 | 226.47 | 402.34 | 195.97 | 231.23 | 230.67 | 406.54 | 178.7112 | 173.807 | 183.6765 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3528.168 | 1728.804 | 1799.364 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 11 | 50000 | 4096 | 10 | 228.57 | 404.44 | 180.89 | 420.1 | 226.47 | 402.34 | 178.79 | 418 | 230.67 | 406.54 | 182.99 | 422.2 | 50.18583 | 53.13065 | 47.80094 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 537.936 | 304.248 | 233.688 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 12 | 50000 | 4096 | 10 | 180.89 | 420.1 | 226.85 | 690.77 | 178.79 | 418 | 224.75 | 688.67 | 182.99 | 422.2 | 228.95 | 692.87 | 274.5443 | 269.7224 | 279.4093 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 5319.384 | 2624.412 | 2694.972 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 13 | 50000 | 4096 | 10 | 226.85 | 690.77 | 169.97 | 733.98 | 224.75 | 688.67 | 167.87 | 731.88 | 228.95 | 692.87 | 172.07 | 736.08 | 71.43136 | 72.47445 | 70.87235 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 229.656 | 150.108 | 79.548 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 14 | 50000 | 4096 | 10 | 169.97 | 733.98 | 183.52 | 853.05 | 167.87 | 731.88 | 181.42 | 850.95 | 172.07 | 736.08 | 185.62 | 855.15 | 119.8385 | 115.2499 | 124.5414 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2228.016 | 1078.728 | 1149.288 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 15 | 50000 | 4096 | 10 | 183.52 | 853.05 | 316.66 | 72.15 | 181.42 | 850.95 | 314.56 | 70.05 | 185.62 | 855.15 | 318.76 | 74.25 | 792.1686 | 795.6177 | 788.7491 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 10882.37 | 5476.464 | 5405.904 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 16 | 50000 | 4096 | 10 | 316.66 | 72.15 | 324.62 | 144.25 | 314.56 | 70.05 | 322.52 | 142.15 | 318.76 | 74.25 | 326.72 | 146.35 | 72.53807 | 68.00403 | 77.2629 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1345.008 | 637.224 | 707.784 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 17 | 50000 | 4096 | 10 | 324.62 | 144.25 | 359.91 | 319.64 | 322.52 | 142.15 | 357.81 | 317.54 | 326.72 | 146.35 | 362.01 | 321.74 | 178.9051 | 173.9902 | 183.8805 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3539.424 | 1734.432 | 1804.992 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 18 | 50000 | 4096 | 10 | 359.91 | 319.64 | 317.49 | 473.07 | 357.81 | 317.54 | 315.39 | 470.97 | 362.01 | 321.74 | 319.59 | 475.17 | 159.1861 | 156.3426 | 162.1974 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1864.968 | 897.204 | 967.764 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 19 | 50000 | 4096 | 10 | 317.49 | 473.07 | 387.78 | 665.89 | 315.39 | 470.97 | 385.68 | 663.79 | 319.59 | 475.17 | 389.88 | 667.99 | 205.2322 | 199.8634 | 210.6315 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4420.248 | 2174.844 | 2245.404 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 20 | 50000 | 4096 | 10 | 387.78 | 665.89 | 298.83 | 793 | 385.68 | 663.79 | 296.73 | 790.9 | 389.88 | 667.99 | 300.93 | 795.1 | 155.142 | 154.2199 | 156.2846 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 641.088 | 285.264 | 355.824 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 21 | 50000 | 4096 | 10 | 298.83 | 793 | 371.32 | 961.78 | 296.73 | 790.9 | 369.22 | 959.68 | 300.93 | 795.1 | 373.42 | 963.88 | 183.6886 | 178.1856 | 189.218 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4053.336 | 1991.388 | 2061.948 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 22 | 50000 | 4096 | 10 | 371.32 | 961.78 | 491.41 | 75.75 | 369.22 | 959.68 | 489.31 | 73.65 | 373.42 | 963.88 | 493.51 | 77.85 | 894.1313 | 897.7416 | 890.546 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 12867.79 | 6469.176 | 6398.616 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 23 | 50000 | 4096 | 10 | 491.41 | 75.75 | 456.03 | 180.99 | 489.31 | 73.65 | 453.93 | 178.89 | 493.51 | 77.85 | 458.13 | 183.09 | 111.0279 | 108.5157 | 113.795 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1173.648 | 551.544 | 622.104 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 24 | 50000 | 4096 | 10 | 456.03 | 180.99 | 499.54 | 339.82 | 453.93 | 178.89 | 497.44 | 337.72 | 458.13 | 183.09 | 501.64 | 341.92 | 164.6818 | 159.5485 | 169.8677 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3399.312 | 1664.376 | 1734.936 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 25 | 50000 | 4096 | 10 | 499.54 | 339.82 | 528.84 | 478.63 | 497.44 | 337.72 | 526.74 | 476.53 | 501.64 | 341.92 | 530.94 | 480.73 | 141.8686 | 136.9301 | 146.8813 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2824.248 | 1376.844 | 1447.404 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 26 | 50000 | 4096 | 10 | 528.84 | 478.63 | 456.51 | 566.43 | 526.74 | 476.53 | 454.41 | 564.33 | 530.94 | 480.73 | 458.61 | 568.53 | 113.7562 | 113.3393 | 114.4801 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 259.896 | 94.668 | 165.228 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 27 | 50000 | 4096 | 10 | 456.51 | 566.43 | 508.76 | 778.49 | 454.41 | 564.33 | 506.66 | 776.39 | 458.61 | 568.53 | 510.86 | 780.59 | 218.4022 | 213.3415 | 223.5061 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4440.408 | 2184.924 | 2255.484 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 28 | 50000 | 4096 | 10 | 508.76 | 778.49 | 522.58 | 960.26 | 506.66 | 776.39 | 520.48 | 958.16 | 510.86 | 780.59 | 524.68 | 962.36 | 182.2946 | 177.8304 | 186.841 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3285.912 | 1607.676 | 1678.236 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 29 | 50000 | 4096 | 10 | 522.58 | 960.26 | 631 | 47.07 | 520.48 | 958.16 | 628.9 | 44.97 | 524.68 | 962.36 | 633.1 | 49.17 | 919.6036 | 923.291 | 915.94 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 13520.14 | 6795.348 | 6724.788 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 30 | 50000 | 4096 | 10 | 631 | 47.07 | 589.98 | 173.1 | 628.9 | 44.97 | 587.88 | 171 | 633.1 | 49.17 | 592.08 | 175.2 | 132.5375 | 129.9515 | 135.335 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1428.168 | 678.804 | 749.364 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 31 | 50000 | 4096 | 10 | 589.98 | 173.1 | 604.14 | 304.38 | 587.88 | 171 | 602.04 | 302.28 | 592.08 | 175.2 | 606.24 | 306.48 | 132.0414 | 127.4697 | 136.7184 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2443.392 | 1186.416 | 1256.976 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 32 | 50000 | 4096 | 10 | 604.14 | 304.38 | 680.19 | 558.85 | 602.04 | 302.28 | 678.09 | 556.75 | 606.24 | 306.48 | 682.29 | 560.95 | 265.591 | 260.3795 | 270.8325 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 5552.736 | 2741.088 | 2811.648 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 33 | 50000 | 4096 | 10 | 680.19 | 558.85 | 633.77 | 583.26 | 678.09 | 556.75 | 631.67 | 581.16 | 682.29 | 560.95 | 635.87 | 585.36 | 52.44678 | 54.50531 | 51.00059 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 369.768 | 220.164 | 149.604 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 34 | 50000 | 4096 | 10 | 633.77 | 583.26 | 646.48 | 756.19 | 631.67 | 581.16 | 644.38 | 754.09 | 635.87 | 585.36 | 648.58 | 758.29 | 173.3965 | 168.9445 | 177.9353 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3118.752 | 1524.096 | 1594.656 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 35 | 50000 | 4096 | 10 | 646.48 | 756.19 | 681.7 | 959.09 | 644.38 | 754.09 | 679.6 | 956.99 | 648.58 | 758.29 | 683.8 | 961.19 | 205.9341 | 201.1068 | 210.8183 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4000.416 | 1964.928 | 2035.488 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 36 | 50000 | 4096 | 10 | 681.7 | 959.09 | 804.24 | 64.39 | 679.6 | 956.99 | 802.14 | 62.29 | 683.8 | 961.19 | 806.34 | 66.49 | 903.0527 | 906.6563 | 899.4739 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 12972.29 | 6521.424 | 6450.864 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 37 | 50000 | 4096 | 10 | 804.24 | 64.39 | 806.66 | 170.86 | 802.14 | 62.29 | 804.56 | 168.76 | 806.34 | 66.49 | 808.76 | 172.96 | 106.4975 | 102.2855 | 110.8678 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1829.352 | 879.396 | 949.956 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 38 | 50000 | 4096 | 10 | 806.66 | 170.86 | 759.09 | 317.31 | 804.56 | 168.76 | 756.99 | 315.21 | 808.76 | 172.96 | 761.19 | 319.41 | 153.9822 | 151.3777 | 156.7686 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1661.184 | 795.312 | 865.872 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 39 | 50000 | 4096 | 10 | 759.09 | 317.31 | 742.69 | 516.71 | 756.99 | 315.21 | 740.59 | 514.61 | 761.19 | 319.41 | 744.79 | 518.81 | 200.0733 | 196.284 | 203.9652 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3074.4 | 1501.92 | 1572.48 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 40 | 50000 | 4096 | 10 | 742.69 | 516.71 | 741.86 | 571.62 | 740.59 | 514.61 | 739.76 | 569.52 | 744.79 | 518.81 | 743.96 | 573.72 | 54.91627 | 50.95886 | 59.20599 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 908.544 | 418.992 | 489.552 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 41 | 50000 | 4096 | 10 | 741.86 | 571.62 | 784.86 | 782.47 | 739.76 | 569.52 | 782.76 | 780.37 | 743.96 | 573.72 | 786.96 | 784.57 | 215.19 | 210.2609 | 220.1689 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4264.68 | 2097.06 | 2167.62 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 42 | 50000 | 4096 | 10 | 784.86 | 782.47 | 793.06 | 903.12 | 782.76 | 780.37 | 790.96 | 901.02 | 786.96 | 784.57 | 795.16 | 905.22 | 120.9283 | 116.5187 | 125.4643 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2164.68 | 1047.06 | 1117.62 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 43 | 50000 | 4096 | 10 | 793.06 | 903.12 | 945.64 | 103.34 | 790.96 | 901.02 | 943.54 | 101.24 | 795.16 | 905.22 | 947.74 | 105.44 | 814.2043 | 817.5576 | 810.8807 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 2.05E+08 | 10872.96 | 5471.76 | 5401.2 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 44 | 50000 | 4096 | 10 | 945.64 | 103.34 | 966.12 | 236.95 | 943.54 | 101.24 | 964.02 | 234.85 | 947.74 | 105.44 | 968.22 | 239.05 | 135.1705 | 130.43 | 140.0025 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2588.712 | 1259.076 | 1329.636 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 45 | 50000 | 4096 | 10 | 966.12 | 236.95 | 893.21 | 363.12 | 964.02 | 234.85 | 891.11 | 361.02 | 968.22 | 239.05 | 895.31 | 365.22 | 145.7214 | 144.3005 | 147.3682 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 894.768 | 412.104 | 482.664 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 46 | 50000 | 4096 | 10 | 893.21 | 363.12 | 920.87 | 478.34 | 891.11 | 361.02 | 918.77 | 476.24 | 895.31 | 365.22 | 922.97 | 480.44 | 118.4936 | 113.4716 | 123.5969 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2400.384 | 1164.912 | 1235.472 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 47 | 50000 | 4096 | 10 | 920.87 | 478.34 | 860.09 | 578.89 | 918.77 | 476.24 | 857.99 | 576.79 | 922.97 | 480.44 | 862.19 | 580.99 | 117.4926 | 116.2141 | 119.054 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 668.136 | 298.788 | 369.348 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 48 | 50000 | 4096 | 10 | 860.09 | 578.89 | 956.62 | 706.02 | 857.99 | 576.79 | 954.52 | 703.92 | 862.19 | 580.99 | 958.72 | 708.12 | 159.6248 | 153.742 | 165.5116 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3757.488 | 1843.464 | 1914.024 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 49 | 50000 | 4096 | 10 | 956.62 | 706.02 | 913.64 | 863.8 | 954.52 | 703.92 | 911.54 | 861.7 | 958.72 | 708.12 | 915.74 | 865.9 | 163.5292 | 160.6635 | 166.5575 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1928.64 | 929.04 | 999.6 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 1 | 50000 | 4096 | 10 | 0 | 0 | 4.74 | 68.2 | -2.1 | -2.1 | 2.64 | 66.1 | 2.1 | 2.1 | 6.84 | 70.3 | 68.36452 | 64.00228 | 72.94987 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1225.392 | 577.416 | 647.976 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 2 | 50000 | 4096 | 10 | 4.74 | 68.2 | 80.14 | 200.47 | 2.64 | 66.1 | 78.04 | 198.37 | 6.84 | 70.3 | 82.24 | 202.57 | 152.2515 | 146.5311 | 157.988 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3488.856 | 1709.148 | 1779.708 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 3 | 50000 | 4096 | 10 | 80.14 | 200.47 | 89.03 | 413.46 | 78.04 | 198.37 | 86.93 | 411.36 | 82.24 | 202.57 | 91.13 | 415.56 | 213.1754 | 208.8427 | 217.5841 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3727.584 | 1828.512 | 1899.072 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 4 | 50000 | 4096 | 10 | 89.03 | 413.46 | 135.37 | 515.54 | 86.93 | 411.36 | 133.27 | 513.44 | 91.13 | 415.56 | 137.47 | 517.64 | 112.1059 | 106.5658 | 117.6849 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2493.456 | 1211.448 | 1282.008 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 5 | 50000 | 4096 | 10 | 135.37 | 515.54 | 25.53 | 565.77 | 133.27 | 513.44 | 23.43 | 563.67 | 137.47 | 517.64 | 27.63 | 567.87 | 120.7803 | 122.9792 | 118.8378 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1001.448 | 536.004 | 465.444 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 6 | 50000 | 4096 | 10 | 25.53 | 565.77 | 26.97 | 770.04 | 23.43 | 563.67 | 24.87 | 767.94 | 27.63 | 567.87 | 29.07 | 772.14 | 204.2751 | 200.089 | 208.5463 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3455.928 | 1692.684 | 1763.244 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 7 | 50000 | 4096 | 10 | 26.97 | 770.04 | 78.25 | 894.17 | 24.87 | 767.94 | 76.15 | 892.07 | 29.07 | 772.14 | 80.35 | 896.27 | 134.3052 | 128.8399 | 139.8092 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2946.888 | 1438.164 | 1508.724 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 8 | 50000 | 4096 | 10 | 78.25 | 894.17 | 241.34 | 105.82 | 76.15 | 892.07 | 239.24 | 103.72 | 80.35 | 896.27 | 243.44 | 107.92 | 805.0429 | 808.3202 | 801.7962 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 10504.37 | 5287.464 | 5216.904 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 9 | 50000 | 4096 | 10 | 241.34 | 105.82 | 229.25 | 273.13 | 239.24 | 103.72 | 227.15 | 271.03 | 243.44 | 107.92 | 231.35 | 275.23 | 167.7462 | 163.9214 | 171.6914 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2607.696 | 1268.568 | 1339.128 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 10 | 50000 | 4096 | 10 | 229.25 | 273.13 | 173.21 | 329.53 | 227.15 | 271.03 | 171.11 | 327.43 | 231.35 | 275.23 | 175.31 | 331.63 | 79.50749 | 79.71008 | 79.74801 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 6.048 | 32.256 | 38.304 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 11 | 50000 | 4096 | 10 | 173.21 | 329.53 | 262.6 | 438.93 | 171.11 | 327.43 | 260.5 | 436.83 | 175.31 | 331.63 | 264.7 | 441.03 | 141.2761 | 135.3676 | 147.1871 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3339.672 | 1634.556 | 1705.116 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 12 | 50000 | 4096 | 10 | 262.6 | 438.93 | 176.75 | 600.11 | 260.5 | 436.83 | 174.65 | 598.01 | 264.7 | 441.03 | 178.85 | 602.21 | 182.6177 | 180.9744 | 184.4377 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1265.544 | 597.492 | 668.052 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 13 | 50000 | 4096 | 10 | 176.75 | 600.11 | 157.37 | 753.75 | 174.65 | 598.01 | 155.27 | 751.65 | 178.85 | 602.21 | 159.47 | 755.85 | 154.8575 | 151.2889 | 158.5683 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2255.568 | 1092.504 | 1163.064 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 14 | 50000 | 4096 | 10 | 157.37 | 753.75 | 228.12 | 962.69 | 155.27 | 751.65 | 226.02 | 960.59 | 159.47 | 755.85 | 230.22 | 964.79 | 220.5935 | 215.2844 | 225.934 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4698.792 | 2314.116 | 2384.676 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 15 | 50000 | 4096 | 10 | 228.12 | 962.69 | 356.18 | 120.82 | 226.02 | 960.59 | 354.08 | 118.72 | 230.22 | 964.79 | 358.28 | 122.92 | 851.5541 | 855.0882 | 848.047 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 11992.01 | 6031.284 | 5960.724 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 16 | 50000 | 4096 | 10 | 356.18 | 120.82 | 356.03 | 160.93 | 354.08 | 118.72 | 353.93 | 158.83 | 358.28 | 122.92 | 358.13 | 163.03 | 40.11028 | 36.17251 | 44.4947 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 671.328 | 300.384 | 370.944 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 17 | 50000 | 4096 | 10 | 356.03 | 160.93 | 297.67 | 333.08 | 353.93 | 158.83 | 295.57 | 330.98 | 358.13 | 163.03 | 299.77 | 335.18 | 181.7732 | 179.2232 | 184.4793 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1911.672 | 920.556 | 991.116 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 18 | 50000 | 4096 | 10 | 297.67 | 333.08 | 386.59 | 530.48 | 295.57 | 330.98 | 384.49 | 528.38 | 299.77 | 335.18 | 388.69 | 532.58 | 216.5029 | 210.959 | 222.0673 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4810.176 | 2369.808 | 2440.368 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 19 | 50000 | 4096 | 10 | 386.59 | 530.48 | 296.6 | 686.71 | 384.49 | 528.38 | 294.5 | 684.61 | 388.69 | 532.58 | 298.7 | 688.81 | 180.2942 | 178.8432 | 181.9278 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1112.832 | 521.136 | 591.696 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 20 | 50000 | 4096 | 10 | 296.6 | 686.71 | 393.3 | 783.41 | 294.5 | 684.61 | 391.2 | 781.31 | 298.7 | 688.81 | 395.4 | 785.51 | 136.7545 | 130.8148 | 142.6941 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3249.12 | 1589.28 | 1659.84 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 21 | 50000 | 4096 | 10 | 393.3 | 783.41 | 316.85 | 874.56 | 391.2 | 781.31 | 314.75 | 872.46 | 395.4 | 785.51 | 318.95 | 876.66 | 118.9661 | 118.5948 | 119.6315 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 246.96 | 88.2 | 158.76 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 22 | 50000 | 4096 | 10 | 316.85 | 874.56 | 491.93 | 107.13 | 314.75 | 872.46 | 489.83 | 105.03 | 318.95 | 876.66 | 494.03 | 109.23 | 787.1479 | 790.3245 | 784.0034 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 9951.48 | 5011.02 | 4940.46 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 23 | 50000 | 4096 | 10 | 491.93 | 107.13 | 535.45 | 231.13 | 489.83 | 105.03 | 533.35 | 229.03 | 494.03 | 109.23 | 537.55 | 233.23 | 131.4153 | 126.0877 | 136.7934 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2814.336 | 1371.888 | 1442.448 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 24 | 50000 | 4096 | 10 | 535.45 | 231.13 | 519.54 | 383.31 | 533.35 | 229.03 | 517.44 | 381.21 | 537.55 | 233.23 | 521.64 | 385.41 | 153.0094 | 149.3402 | 156.8178 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2289.336 | 1109.388 | 1179.948 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 25 | 50000 | 4096 | 10 | 519.54 | 383.31 | 531.7 | 435.76 | 517.44 | 381.21 | 529.6 | 433.66 | 521.64 | 385.41 | 533.8 | 437.86 | 53.84114 | 48.90219 | 58.96501 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1085.448 | 507.444 | 578.004 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 26 | 50000 | 4096 | 10 | 531.7 | 435.76 | 443.15 | 697.7 | 529.6 | 433.66 | 441.05 | 695.6 | 533.8 | 437.86 | 445.25 | 699.8 | 276.5026 | 273.9206 | 279.1871 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2912.952 | 1421.196 | 1491.756 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 27 | 50000 | 4096 | 10 | 443.15 | 697.7 | 518.3 | 828.05 | 441.05 | 695.6 | 516.2 | 825.95 | 445.25 | 699.8 | 520.4 | 830.15 | 150.4614 | 144.7333 | 156.2054 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3452.4 | 1690.92 | 1761.48 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 28 | 50000 | 4096 | 10 | 518.3 | 828.05 | 533.99 | 867.38 | 516.2 | 825.95 | 531.89 | 865.28 | 520.4 | 830.15 | 536.09 | 869.48 | 42.34413 | 36.96129 | 47.85889 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 924.336 | 426.888 | 497.448 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 29 | 50000 | 4096 | 10 | 533.99 | 867.38 | 631.11 | 135.26 | 531.89 | 865.28 | 629.01 | 133.16 | 536.09 | 869.48 | 633.21 | 137.36 | 738.5337 | 742.1599 | 734.9376 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 10668 | 5369.28 | 5298.72 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 30 | 50000 | 4096 | 10 | 631.11 | 135.26 | 660.61 | 256.14 | 629.01 | 133.16 | 658.51 | 254.04 | 633.21 | 137.36 | 662.71 | 258.24 | 124.4276 | 119.3914 | 129.5403 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2526.384 | 1227.912 | 1298.472 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 31 | 50000 | 4096 | 10 | 660.61 | 256.14 | 646.75 | 290.68 | 658.51 | 254.04 | 644.65 | 288.58 | 662.71 | 258.24 | 648.85 | 292.78 | 37.21708 | 35.30834 | 39.92622 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 347.424 | 138.432 | 208.992 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 32 | 50000 | 4096 | 10 | 646.75 | 290.68 | 563.75 | 513.91 | 644.65 | 288.58 | 561.65 | 511.81 | 648.85 | 292.78 | 565.85 | 516.01 | 238.1609 | 235.7498 | 240.6945 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2355.864 | 1142.652 | 1213.212 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 33 | 50000 | 4096 | 10 | 563.75 | 513.91 | 668.86 | 618.02 | 561.65 | 511.81 | 666.76 | 615.92 | 565.85 | 516.01 | 670.96 | 620.12 | 147.9426 | 142.0029 | 153.8822 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 3514.896 | 1722.168 | 1792.728 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 34 | 50000 | 4096 | 10 | 668.86 | 618.02 | 568.35 | 838.1 | 666.76 | 615.92 | 566.25 | 836 | 670.96 | 620.12 | 570.45 | 840.2 | 241.9452 | 239.9341 | 244.0843 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2008.776 | 969.108 | 1039.668 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 35 | 50000 | 4096 | 10 | 568.35 | 838.1 | 683.97 | 897.96 | 566.25 | 836 | 681.87 | 895.86 | 570.45 | 840.2 | 686.07 | 900.06 | 130.1968 | 124.549 | 135.8695 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2948.064 | 1438.752 | 1509.312 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 36 | 50000 | 4096 | 10 | 683.97 | 897.96 | 811.31 | 27.32 | 681.87 | 895.86 | 809.21 | 25.22 | 686.07 | 900.06 | 813.41 | 29.42 | 879.9031 | 883.4639 | 876.3681 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 12487.44 | 6279 | 6208.44 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 37 | 50000 | 4096 | 10 | 811.31 | 27.32 | 731.21 | 147.32 | 809.21 | 25.22 | 729.11 | 145.22 | 813.41 | 29.42 | 733.31 | 149.42 | 144.2775 | 143.2345 | 145.5557 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 670.32 | 299.88 | 370.44 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 38 | 50000 | 4096 | 10 | 731.21 | 147.32 | 794.2 | 352.58 | 729.11 | 145.22 | 792.1 | 350.48 | 733.31 | 149.42 | 796.3 | 354.68 | 214.7077 | 209.4788 | 219.9727 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4506.6 | 2218.02 | 2288.58 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 39 | 50000 | 4096 | 10 | 794.2 | 352.58 | 728.91 | 558.77 | 792.1 | 350.48 | 726.81 | 556.67 | 796.3 | 354.68 | 731.01 | 560.87 | 216.2801 | 213.609 | 219.0798 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2367.12 | 1148.28 | 1218.84 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 40 | 50000 | 4096 | 10 | 728.91 | 558.77 | 738.25 | 688.58 | 726.81 | 556.67 | 736.15 | 686.48 | 731.01 | 560.87 | 740.35 | 690.68 | 130.1456 | 125.7151 | 134.6923 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2337.72 | 1133.58 | 1204.14 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 41 | 50000 | 4096 | 10 | 738.25 | 688.58 | 743.4 | 797.11 | 736.15 | 686.48 | 741.3 | 795.01 | 740.35 | 690.68 | 745.5 | 799.21 | 108.6521 | 104.3343 | 113.1171 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1909.824 | 919.632 | 990.192 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 42 | 50000 | 4096 | 10 | 743.4 | 797.11 | 702.58 | 900.6 | 741.3 | 795.01 | 700.48 | 898.5 | 745.5 | 799.21 | 704.68 | 902.7 | 111.2495 | 109.0197 | 113.746 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1052.856 | 491.148 | 561.708 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 43 | 50000 | 4096 | 10 | 702.58 | 900.6 | 881.25 | 97.39 | 700.48 | 898.5 | 879.15 | 95.29 | 704.68 | 902.7 | 883.35 | 99.49 | 822.8422 | 826.0452 | 819.6697 | 2.06E+08 | 2.06E+08 | 2.06E+08 | 2.05E+08 | 10492.27 | 5281.416 | 5210.856 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 44 | 50000 | 4096 | 10 | 881.25 | 97.39 | 848.39 | 278.08 | 879.15 | 95.29 | 846.29 | 275.98 | 883.35 | 99.49 | 850.49 | 280.18 | 183.6536 | 180.339 | 187.0981 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2483.544 | 1206.492 | 1277.052 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 45 | 50000 | 4096 | 10 | 848.39 | 278.08 | 875.27 | 313.57 | 846.29 | 275.98 | 873.17 | 311.47 | 850.49 | 280.18 | 877.37 | 315.67 | 44.5205 | 38.64514 | 50.41094 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1047.816 | 488.628 | 559.188 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 46 | 50000 | 4096 | 10 | 875.27 | 313.57 | 885.24 | 443.34 | 873.17 | 311.47 | 883.14 | 441.24 | 877.37 | 315.67 | 887.34 | 445.44 | 130.1524 | 125.7025 | 134.7173 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2347.632 | 1138.536 | 1209.096 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 47 | 50000 | 4096 | 10 | 885.24 | 443.34 | 947.01 | 641.26 | 883.14 | 441.24 | 944.91 | 639.16 | 887.34 | 445.44 | 949.11 | 643.36 | 207.3351 | 202.0934 | 212.6136 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 4362.792 | 2146.116 | 2216.676 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 48 | 50000 | 4096 | 10 | 947.01 | 641.26 | 871.53 | 821.57 | 944.91 | 639.16 | 869.43 | 819.47 | 949.11 | 643.36 | 873.63 | 823.67 | 195.471 | 193.2968 | 197.7998 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 1761.144 | 845.292 | 915.852 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
| 49 | 50000 | 4096 | 10 | 871.53 | 821.57 | 948.19 | 898.36 | 869.43 | 819.47 | 946.09 | 896.26 | 873.63 | 823.67 | 950.29 | 900.46 | 108.5056 | 102.5659 | 114.4453 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2.05E+08 | 2577.96 | 1253.7 | 1324.26 | 4.1E+08 | 4.1E+08 | 4.1E+08 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 848969 | 418425.9 | 430717.5 |  |  |  |

Table 3:Spiral Calculations

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | **Dmin (d=42mm or 4.2cm)** | | | | **Dmax (d=42mm or 4.2cm)** | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SL NO. | E\_charge | K | Ets | x1 | y1 | x2 | y2 | (x1-d/2) | (y1-d/2) | (x2-d/2) | (y2-d/2) | (x1+d/2) | (y1+d/2) | (x2+d/2) | (y2+d/2) | dis(zero) | dxy(min) | dxy(max) | E\_tx0 | E\_tx(min) | E\_tx(max) | E\_rx | max Eng | min Eng | Avg Eng | total0 | totalxy(min) | totalxy(max) |
| 1 | 5E-23 | 4096 | 10 | 0 | 0 | 67.38 | 70.13 | -2.1 | -2.1 | 65.28 | 68.03 | 2.1 | 2.1 | 69.48 | 72.23 | 97.2537 | 91.31526 | 103.1923 | 50418.28 | 49298.48 | 51608.65 | 2.05E-19 | 2310.168 | 1119.804 | 1190.364 | 50418.28 | 49298.48 | 51608.65 |
| 2 | 5E-23 | 4096 | 10 | 67.38 | 70.13 | 70.38 | 210.4 | 65.28 | 68.03 | 68.28 | 208.3 | 69.48 | 72.23 | 72.48 | 212.5 | 140.3021 | 136.0753 | 144.6493 | 60644.67 | 59476.48 | 61883.42 | 2.05E-19 | 2406.936 | 1168.188 | 1238.748 | 60644.67 | 59476.48 | 61883.42 |
| 3 | 5E-23 | 4096 | 10 | 70.38 | 210.4 | 75.52 | 350.14 | 68.28 | 208.3 | 73.42 | 348.04 | 72.48 | 212.5 | 77.62 | 352.24 | 139.8345 | 135.5433 | 144.2427 | 60513.69 | 59331.98 | 61765.96 | 2.05E-19 | 2433.984 | 1181.712 | 1252.272 | 60513.69 | 59331.98 | 61765.96 |
| 4 | 5E-23 | 4096 | 10 | 75.52 | 350.14 | 99.02 | 490.83 | 73.42 | 348.04 | 96.92 | 488.73 | 77.62 | 352.24 | 101.12 | 492.93 | 142.6391 | 137.8478 | 147.5141 | 61305.93 | 59962.01 | 62720.4 | 2.05E-19 | 2758.392 | 1343.916 | 1414.476 | 61305.93 | 59962.01 | 62720.4 |
| 5 | 5E-23 | 4096 | 10 | 99.02 | 490.83 | 91.91 | 630.36 | 96.92 | 488.73 | 89.81 | 628.26 | 101.12 | 492.93 | 94.01 | 632.46 | 139.711 | 135.8018 | 143.7595 | 60479.17 | 59402.13 | 61626.78 | 2.05E-19 | 2224.656 | 1077.048 | 1147.608 | 60479.17 | 59402.13 | 61626.78 |
| 6 | 5E-23 | 4096 | 10 | 91.91 | 630.36 | 86.03 | 770.55 | 89.81 | 628.26 | 83.93 | 768.45 | 94.01 | 632.46 | 88.13 | 772.65 | 140.3133 | 136.3631 | 144.3998 | 60647.81 | 59554.89 | 61811.29 | 2.05E-19 | 2256.408 | 1092.924 | 1163.484 | 60647.81 | 59554.89 | 61811.29 |
| 7 | 5E-23 | 4096 | 10 | 86.03 | 770.55 | 36.95 | 910.58 | 83.93 | 768.45 | 34.85 | 908.48 | 88.13 | 772.65 | 39.05 | 912.68 | 148.3821 | 145.906 | 151.0513 | 62977.25 | 62248.55 | 63776.51 | 2.05E-19 | 1527.96 | 728.7 | 799.26 | 62977.25 | 62248.55 | 63776.51 |
| 8 | 5E-23 | 4096 | 10 | 36.95 | 910.58 | 217.54 | 70.75 | 34.85 | 908.48 | 215.44 | 68.65 | 39.05 | 912.68 | 219.64 | 72.85 | 859.0269 | 862.2645 | 855.8182 | 778887.2 | 784460.1 | 773384.8 | 2.05E-19 | 11075.23 | 5572.896 | 5502.336 | 778887.2 | 784460.1 | 773384.8 |
| 9 | 5E-23 | 4096 | 10 | 217.54 | 70.75 | 191.05 | 210.58 | 215.44 | 68.65 | 188.95 | 208.48 | 219.64 | 72.85 | 193.15 | 212.68 | 142.3171 | 139.0589 | 145.7446 | 61214.15 | 60297.37 | 62201.49 | 2.05E-19 | 1904.112 | 916.776 | 987.336 | 61214.15 | 60297.37 | 62201.49 |
| 10 | 5E-23 | 4096 | 10 | 191.05 | 210.58 | 193.03 | 350.75 | 188.95 | 208.48 | 190.93 | 348.65 | 193.15 | 212.68 | 195.13 | 352.85 | 140.184 | 135.9881 | 144.5022 | 60611.55 | 59452.77 | 61840.89 | 2.05E-19 | 2388.12 | 1158.78 | 1229.34 | 60611.55 | 59452.77 | 61840.89 |
| 11 | 5E-23 | 4096 | 10 | 193.03 | 350.75 | 212.34 | 490.01 | 190.93 | 348.65 | 210.24 | 487.91 | 195.13 | 352.85 | 214.44 | 492.11 | 140.5924 | 135.9026 | 145.3736 | 60726.22 | 59429.52 | 62093.49 | 2.05E-19 | 2663.976 | 1296.708 | 1367.268 | 60726.22 | 59429.52 | 62093.49 |
| 12 | 5E-23 | 4096 | 10 | 212.34 | 490.01 | 214.55 | 630.23 | 210.24 | 487.91 | 212.45 | 628.13 | 214.44 | 492.11 | 216.65 | 632.33 | 140.2374 | 136.0346 | 144.5622 | 60626.53 | 59465.4 | 61858.22 | 2.05E-19 | 2392.824 | 1161.132 | 1231.692 | 60626.53 | 59465.4 | 61858.22 |
| 13 | 5E-23 | 4096 | 10 | 214.55 | 630.23 | 191.13 | 770.62 | 212.45 | 628.13 | 189.03 | 768.52 | 216.65 | 632.33 | 193.23 | 772.72 | 142.3301 | 138.9625 | 145.8618 | 61217.85 | 60270.58 | 62235.68 | 2.05E-19 | 1965.096 | 947.268 | 1017.828 | 61217.85 | 60270.58 | 62235.68 |
| 14 | 5E-23 | 4096 | 10 | 191.13 | 770.62 | 177.13 | 910.46 | 189.03 | 768.52 | 175.03 | 908.36 | 193.23 | 772.72 | 179.23 | 912.56 | 140.5391 | 136.8556 | 144.373 | 60711.23 | 59689.45 | 61803.56 | 2.05E-19 | 2114.112 | 1021.776 | 1092.336 | 60711.23 | 59689.45 | 61803.56 |
| 15 | 5E-23 | 4096 | 10 | 177.13 | 910.46 | 345.07 | 70.65 | 175.03 | 908.36 | 342.97 | 68.55 | 179.23 | 912.56 | 347.17 | 72.75 | 856.4372 | 859.7463 | 853.1566 | 774444.7 | 780123.7 | 768836.3 | 2.05E-19 | 11287.42 | 5678.988 | 5608.428 | 774444.7 | 780123.7 | 768836.3 |
| 16 | 5E-23 | 4096 | 10 | 345.07 | 70.65 | 324.71 | 210.4 | 342.97 | 68.55 | 322.61 | 208.3 | 347.17 | 72.75 | 326.81 | 212.5 | 141.2253 | 137.757 | 144.8542 | 60904.59 | 59937 | 61942.75 | 2.05E-19 | 2005.752 | 967.596 | 1038.156 | 60904.59 | 59937 | 61942.75 |
| 17 | 5E-23 | 4096 | 10 | 324.71 | 210.4 | 368.39 | 350.88 | 322.61 | 208.3 | 366.29 | 348.78 | 326.81 | 212.5 | 370.49 | 352.98 | 147.1141 | 141.8834 | 152.3968 | 62602.57 | 61090.91 | 64184.8 | 2.05E-19 | 3093.888 | 1511.664 | 1582.224 | 62602.57 | 61090.91 | 64184.8 |
| 18 | 5E-23 | 4096 | 10 | 368.39 | 350.88 | 352.97 | 490.68 | 366.29 | 348.78 | 350.87 | 488.58 | 370.49 | 352.98 | 355.07 | 492.78 | 140.6478 | 137.0121 | 144.4365 | 60741.82 | 59732.3 | 61821.89 | 2.05E-19 | 2089.584 | 1009.512 | 1080.072 | 60741.82 | 59732.3 | 61821.89 |
| 19 | 5E-23 | 4096 | 10 | 352.97 | 490.68 | 328.95 | 630.61 | 350.87 | 488.58 | 326.85 | 628.51 | 355.07 | 492.78 | 331.05 | 632.71 | 141.9766 | 138.6326 | 145.4864 | 61117.37 | 60179 | 62126.29 | 2.05E-19 | 1947.288 | 938.364 | 1008.924 | 61117.37 | 60179 | 62126.29 |
| 20 | 5E-23 | 4096 | 10 | 328.95 | 630.61 | 326.84 | 770.68 | 326.85 | 628.51 | 324.74 | 768.58 | 331.05 | 632.71 | 328.94 | 772.78 | 140.0859 | 136.0164 | 144.2851 | 60584.06 | 59460.47 | 61778.2 | 2.05E-19 | 2317.728 | 1123.584 | 1194.144 | 60584.06 | 59460.47 | 61778.2 |
| 21 | 5E-23 | 4096 | 10 | 326.84 | 770.68 | 299.37 | 910.09 | 324.74 | 768.58 | 297.27 | 907.99 | 328.94 | 772.78 | 301.47 | 912.19 | 142.0906 | 138.8695 | 145.4831 | 61149.75 | 60244.73 | 62125.33 | 2.05E-19 | 1880.592 | 905.016 | 975.576 | 61149.75 | 60244.73 | 62125.33 |
| 22 | 5E-23 | 4096 | 10 | 299.37 | 910.09 | 501.15 | 70.81 | 297.27 | 907.99 | 499.05 | 68.71 | 301.47 | 912.19 | 503.25 | 72.91 | 863.1953 | 866.3119 | 860.1083 | 786066.1 | 791456.4 | 780746.4 | 2.05E-19 | 10710 | 5390.28 | 5319.72 | 786066.1 | 791456.4 | 780746.4 |
| 23 | 5E-23 | 4096 | 10 | 501.15 | 70.81 | 488.93 | 210.34 | 499.05 | 68.71 | 486.83 | 208.24 | 503.25 | 72.91 | 491.03 | 212.44 | 140.0641 | 136.3225 | 143.9536 | 60577.95 | 59543.83 | 61682.63 | 2.05E-19 | 2138.808 | 1034.124 | 1104.684 | 60577.95 | 59543.83 | 61682.63 |
| 24 | 5E-23 | 4096 | 10 | 488.93 | 210.34 | 485.91 | 350.66 | 486.83 | 208.24 | 483.81 | 348.56 | 491.03 | 212.44 | 488.01 | 352.76 | 140.3525 | 136.3113 | 144.5248 | 60658.82 | 59540.78 | 61847.42 | 2.05E-19 | 2306.64 | 1118.04 | 1188.6 | 60658.82 | 59540.78 | 61847.42 |
| 25 | 5E-23 | 4096 | 10 | 485.91 | 350.66 | 513.35 | 490.41 | 483.81 | 348.56 | 511.25 | 488.31 | 488.01 | 352.76 | 515.45 | 492.51 | 142.4185 | 137.5278 | 147.3862 | 61243.02 | 59873.9 | 62682.69 | 2.05E-19 | 2808.792 | 1369.116 | 1439.676 | 61243.02 | 59873.9 | 62682.69 |
| 26 | 5E-23 | 4096 | 10 | 513.35 | 490.41 | 463 | 630.46 | 511.25 | 488.31 | 460.9 | 628.36 | 515.45 | 492.51 | 465.1 | 632.56 | 148.8258 | 146.393 | 151.4526 | 63109.13 | 62390.93 | 63897.89 | 2.05E-19 | 1506.96 | 718.2 | 788.76 | 63109.13 | 62390.93 | 63897.89 |
| 27 | 5E-23 | 4096 | 10 | 463 | 630.46 | 492.11 | 770.57 | 460.9 | 628.36 | 490.01 | 768.47 | 465.1 | 632.56 | 494.21 | 772.67 | 143.1021 | 138.1739 | 148.1045 | 61438.2 | 60052.04 | 62894.93 | 2.05E-19 | 2842.896 | 1386.168 | 1456.728 | 61438.2 | 60052.04 | 62894.93 |
| 28 | 5E-23 | 4096 | 10 | 492.11 | 770.57 | 485.52 | 910.89 | 490.01 | 768.47 | 483.42 | 908.79 | 494.21 | 772.67 | 487.62 | 912.99 | 140.4747 | 136.547 | 144.5398 | 60693.13 | 59605.08 | 61851.74 | 2.05E-19 | 2246.664 | 1088.052 | 1158.612 | 60693.13 | 59605.08 | 61851.74 |
| 29 | 5E-23 | 4096 | 10 | 485.52 | 910.89 | 638.41 | 70.06 | 483.42 | 908.79 | 636.31 | 67.96 | 487.62 | 912.99 | 640.51 | 72.16 | 854.6171 | 858.0119 | 851.2503 | 771330.4 | 777144.4 | 765587 | 2.05E-19 | 11557.39 | 5813.976 | 5743.416 | 771330.4 | 777144.4 | 765587 |
| 30 | 5E-23 | 4096 | 10 | 638.41 | 70.06 | 650.65 | 210.88 | 636.31 | 67.96 | 648.55 | 208.78 | 640.51 | 72.16 | 652.75 | 212.98 | 141.3509 | 136.8564 | 145.9489 | 60940.09 | 59689.67 | 62261.07 | 2.05E-19 | 2571.408 | 1250.424 | 1320.984 | 60940.09 | 59689.67 | 62261.07 |
| 31 | 5E-23 | 4096 | 10 | 650.65 | 210.88 | 641.7 | 350.49 | 648.55 | 208.78 | 639.6 | 348.39 | 652.75 | 212.98 | 643.8 | 352.59 | 139.8966 | 136.047 | 143.8884 | 60531.05 | 59468.79 | 61663.88 | 2.05E-19 | 2195.088 | 1062.264 | 1132.824 | 60531.05 | 59468.79 | 61663.88 |
| 32 | 5E-23 | 4096 | 10 | 641.7 | 350.49 | 624.37 | 490.74 | 639.6 | 348.39 | 622.27 | 488.64 | 643.8 | 352.59 | 626.47 | 492.84 | 141.3166 | 137.743 | 145.0455 | 60930.39 | 59933.14 | 61998.2 | 2.05E-19 | 2065.056 | 997.248 | 1067.808 | 60930.39 | 59933.14 | 61998.2 |
| 33 | 5E-23 | 4096 | 10 | 624.37 | 490.74 | 645.36 | 630.05 | 622.27 | 488.64 | 643.26 | 627.95 | 626.47 | 492.84 | 647.46 | 632.15 | 140.8824 | 136.1492 | 145.704 | 60807.86 | 59496.62 | 62189.66 | 2.05E-19 | 2693.04 | 1311.24 | 1381.8 | 60807.86 | 59496.62 | 62189.66 |
| 34 | 5E-23 | 4096 | 10 | 645.36 | 630.05 | 670.36 | 770.31 | 643.26 | 627.95 | 668.26 | 768.21 | 647.46 | 632.15 | 672.46 | 772.41 | 142.4706 | 137.6407 | 147.3816 | 61257.87 | 59904.96 | 62681.33 | 2.05E-19 | 2776.368 | 1352.904 | 1423.464 | 61257.87 | 59904.96 | 62681.33 |
| 35 | 5E-23 | 4096 | 10 | 670.36 | 770.31 | 629.72 | 910.02 | 668.26 | 768.21 | 627.62 | 907.92 | 672.46 | 772.41 | 631.82 | 912.12 | 145.5008 | 142.7361 | 148.4519 | 62130.49 | 61333.59 | 62997.96 | 2.05E-19 | 1664.376 | 796.908 | 867.468 | 62130.49 | 61333.59 | 62997.96 |
| 36 | 5E-23 | 4096 | 10 | 629.72 | 910.02 | 788.74 | 70.47 | 627.62 | 907.92 | 786.64 | 68.37 | 631.82 | 912.12 | 790.84 | 72.57 | 854.4774 | 857.8364 | 851.1465 | 771091.6 | 776843.3 | 765410.4 | 2.05E-19 | 11432.9 | 5751.732 | 5681.172 | 771091.6 | 776843.3 | 765410.4 |
| 37 | 5E-23 | 4096 | 10 | 788.74 | 70.47 | 756.38 | 210.54 | 786.64 | 68.37 | 754.28 | 208.44 | 790.84 | 72.57 | 758.48 | 212.64 | 143.7594 | 140.7028 | 146.9926 | 61626.77 | 60757.29 | 62566.82 | 2.05E-19 | 1809.528 | 869.484 | 940.044 | 61626.77 | 60757.29 | 62566.82 |
| 38 | 5E-23 | 4096 | 10 | 756.38 | 210.54 | 764.46 | 350.75 | 754.28 | 208.44 | 762.36 | 348.65 | 758.48 | 212.64 | 766.56 | 352.85 | 140.4426 | 136.0653 | 144.9312 | 60684.13 | 59473.77 | 61965.05 | 2.05E-19 | 2491.272 | 1210.356 | 1280.916 | 60684.13 | 59473.77 | 61965.05 |
| 39 | 5E-23 | 4096 | 10 | 764.46 | 350.75 | 746.68 | 490.12 | 762.36 | 348.65 | 744.58 | 488.02 | 766.56 | 352.85 | 748.78 | 492.22 | 140.4996 | 136.9454 | 144.2108 | 60700.13 | 59714.05 | 61756.76 | 2.05E-19 | 2042.712 | 986.076 | 1056.636 | 60700.13 | 59714.05 | 61756.76 |
| 40 | 5E-23 | 4096 | 10 | 746.68 | 490.12 | 789.19 | 630.79 | 744.58 | 488.02 | 787.09 | 628.69 | 748.78 | 492.22 | 791.29 | 632.89 | 146.9529 | 141.7453 | 152.2141 | 62555.15 | 61051.72 | 64129.14 | 2.05E-19 | 3077.424 | 1503.432 | 1573.992 | 62555.15 | 61051.72 | 64129.14 |
| 41 | 5E-23 | 4096 | 10 | 789.19 | 630.79 | 753.85 | 770.78 | 787.09 | 628.69 | 751.75 | 768.68 | 791.29 | 632.89 | 755.95 | 772.88 | 144.3818 | 141.4296 | 147.5143 | 61806.12 | 60962.34 | 62720.46 | 2.05E-19 | 1758.12 | 843.78 | 914.34 | 61806.12 | 60962.34 | 62720.46 |
| 42 | 5E-23 | 4096 | 10 | 753.85 | 770.78 | 769.58 | 910.78 | 751.75 | 768.68 | 767.48 | 908.68 | 755.95 | 772.88 | 771.68 | 912.88 | 140.8809 | 136.2886 | 145.5708 | 60807.43 | 59534.58 | 62150.84 | 2.05E-19 | 2616.264 | 1272.852 | 1343.412 | 60807.43 | 59534.58 | 62150.84 |
| 43 | 5E-23 | 4096 | 10 | 769.58 | 910.78 | 885.05 | 70.75 | 767.48 | 908.68 | 882.95 | 68.65 | 771.68 | 912.88 | 887.15 | 72.85 | 847.9291 | 851.5312 | 844.3534 | 759943.7 | 766065.3 | 753892.7 | 2.05E-19 | 12172.61 | 6121.584 | 6051.024 | 759943.7 | 766065.3 | 753892.7 |
| 44 | 5E-23 | 4096 | 10 | 885.05 | 70.75 | 903.12 | 210.88 | 882.95 | 68.65 | 901.02 | 208.78 | 887.15 | 72.85 | 905.22 | 212.98 | 141.2903 | 136.6358 | 146.038 | 60922.94 | 59629.34 | 62287.1 | 2.05E-19 | 2657.76 | 1293.6 | 1364.16 | 60922.94 | 59629.34 | 62287.1 |
| 45 | 5E-23 | 4096 | 10 | 903.12 | 210.88 | 888.26 | 350.81 | 901.02 | 208.78 | 886.16 | 348.71 | 905.22 | 212.98 | 890.36 | 352.91 | 140.7168 | 137.0617 | 144.5237 | 60761.22 | 59745.92 | 61847.09 | 2.05E-19 | 2101.176 | 1015.308 | 1085.868 | 60761.22 | 59745.92 | 61847.09 |
| 46 | 5E-23 | 4096 | 10 | 888.26 | 350.81 | 901.14 | 490.18 | 886.16 | 348.71 | 899.04 | 488.08 | 890.36 | 352.91 | 903.24 | 492.28 | 139.9639 | 135.4484 | 144.5824 | 60549.89 | 59306.27 | 61864.07 | 2.05E-19 | 2557.8 | 1243.62 | 1314.18 | 60549.89 | 59306.27 | 61864.07 |
| 47 | 5E-23 | 4096 | 10 | 901.14 | 490.18 | 899.27 | 630.44 | 899.04 | 488.08 | 897.17 | 628.34 | 903.24 | 492.28 | 901.37 | 632.54 | 140.2725 | 136.1953 | 144.4788 | 60636.36 | 59509.17 | 61834.12 | 2.05E-19 | 2324.952 | 1127.196 | 1197.756 | 60636.36 | 59509.17 | 61834.12 |
| 48 | 5E-23 | 4096 | 10 | 899.27 | 630.44 | 897.25 | 770.87 | 897.17 | 628.34 | 895.15 | 768.77 | 901.37 | 632.54 | 899.35 | 772.97 | 140.4445 | 136.3719 | 144.6464 | 60684.67 | 59557.3 | 61882.59 | 2.05E-19 | 2325.288 | 1127.364 | 1197.924 | 60684.67 | 59557.3 | 61882.59 |
| 49 | 5E-23 | 4096 | 10 | 897.25 | 770.87 | 902.34 | 910.16 | 895.15 | 768.77 | 900.24 | 908.06 | 899.35 | 772.97 | 904.44 | 912.26 | 139.383 | 135.0929 | 143.7904 | 60387.61 | 59210.1 | 61635.68 | 2.05E-19 | 2425.584 | 1177.512 | 1248.072 | 60387.61 | 59210.1 | 61635.68 |
| 1 | 5E-23 | 4096 | 10 | 0 | 0 | 71.44 | 70.12 | -2.1 | -2.1 | 69.34 | 68.02 | 2.1 | 2.1 | 73.54 | 72.22 | 100.1024 | 94.16297 | 106.0418 | 50980.49 | 49826.66 | 52204.87 | 2.05E-19 | 2378.208 | 1153.824 | 1224.384 | 50980.49 | 49826.66 | 52204.87 |
| 2 | 5E-23 | 4096 | 10 | 71.44 | 70.12 | 58.04 | 210.21 | 69.34 | 68.02 | 55.94 | 208.11 | 73.54 | 72.22 | 60.14 | 212.31 | 140.7294 | 137.025 | 144.583 | 60764.77 | 59735.85 | 61864.24 | 2.05E-19 | 2128.392 | 1028.916 | 1099.476 | 60764.77 | 59735.85 | 61864.24 |
| 3 | 5E-23 | 4096 | 10 | 58.04 | 210.21 | 100.48 | 350.52 | 55.94 | 208.11 | 98.38 | 348.42 | 60.14 | 212.31 | 102.58 | 352.62 | 146.588 | 141.3797 | 151.85 | 62448.05 | 60948.23 | 64018.43 | 2.05E-19 | 3070.2 | 1499.82 | 1570.38 | 62448.05 | 60948.23 | 64018.43 |
| 4 | 5E-23 | 4096 | 10 | 100.48 | 350.52 | 53.56 | 490.07 | 98.38 | 348.42 | 51.46 | 487.97 | 102.58 | 352.62 | 55.66 | 492.17 | 147.2267 | 144.682 | 149.9635 | 62635.69 | 61892.88 | 63449.06 | 2.05E-19 | 1556.184 | 742.812 | 813.372 | 62635.69 | 61892.88 | 63449.06 |
| 5 | 5E-23 | 4096 | 10 | 53.56 | 490.07 | 88.11 | 630.12 | 51.46 | 487.97 | 86.01 | 628.02 | 55.66 | 492.17 | 90.21 | 632.22 | 144.2488 | 139.1989 | 149.3641 | 61767.71 | 60336.35 | 63269.63 | 2.05E-19 | 2933.28 | 1431.36 | 1501.92 | 61767.71 | 60336.35 | 63269.63 |
| 6 | 5E-23 | 4096 | 10 | 88.11 | 630.12 | 86.81 | 770.99 | 86.01 | 628.02 | 84.71 | 768.89 | 90.21 | 632.22 | 88.91 | 773.09 | 140.876 | 136.7806 | 145.099 | 60806.05 | 59668.94 | 62013.71 | 2.05E-19 | 2344.776 | 1137.108 | 1207.668 | 60806.05 | 59668.94 | 62013.71 |
| 7 | 5E-23 | 4096 | 10 | 86.81 | 770.99 | 33.24 | 910.37 | 84.71 | 768.89 | 31.14 | 908.27 | 88.91 | 773.09 | 35.34 | 912.47 | 149.3202 | 147.0068 | 151.8309 | 63256.53 | 62571.01 | 64012.61 | 2.05E-19 | 1441.608 | 685.524 | 756.084 | 63256.53 | 62571.01 | 64012.61 |
| 8 | 5E-23 | 4096 | 10 | 33.24 | 910.37 | 215.79 | 70.6 | 31.14 | 908.27 | 213.69 | 68.5 | 35.34 | 912.47 | 217.89 | 72.7 | 859.3824 | 862.6089 | 856.185 | 779498.2 | 785054.1 | 774012.8 | 2.05E-19 | 11041.3 | 5555.928 | 5485.368 | 779498.2 | 785054.1 | 774012.8 |
| 9 | 5E-23 | 4096 | 10 | 215.79 | 70.6 | 176.11 | 210.84 | 213.69 | 68.5 | 174.01 | 208.74 | 217.89 | 72.7 | 178.21 | 212.94 | 145.7455 | 142.9417 | 148.7338 | 62201.76 | 61392.34 | 63081.74 | 2.05E-19 | 1689.408 | 809.424 | 879.984 | 62201.76 | 61392.34 | 63081.74 |
| 10 | 5E-23 | 4096 | 10 | 176.11 | 210.84 | 201.09 | 350.28 | 174.01 | 208.74 | 198.99 | 348.18 | 178.21 | 212.94 | 203.19 | 352.38 | 141.6599 | 136.8271 | 146.5739 | 61027.51 | 59681.67 | 62443.92 | 2.05E-19 | 2762.256 | 1345.848 | 1416.408 | 61027.51 | 59681.67 | 62443.92 |
| 11 | 5E-23 | 4096 | 10 | 201.09 | 350.28 | 245.39 | 490.76 | 198.99 | 348.18 | 243.29 | 488.66 | 203.19 | 352.38 | 247.49 | 492.86 | 147.2994 | 142.0572 | 152.5928 | 62657.12 | 61140.25 | 64244.55 | 2.05E-19 | 3104.304 | 1516.872 | 1587.432 | 62657.12 | 61140.25 | 64244.55 |
| 12 | 5E-23 | 4096 | 10 | 245.39 | 490.76 | 184.63 | 630.77 | 243.29 | 488.66 | 182.53 | 628.67 | 247.49 | 492.86 | 186.73 | 632.87 | 152.6256 | 150.5462 | 154.905 | 64254.58 | 63624.16 | 64955.56 | 2.05E-19 | 1331.4 | 630.42 | 700.98 | 64254.58 | 63624.16 | 64955.56 |
| 13 | 5E-23 | 4096 | 10 | 184.63 | 630.77 | 173.58 | 770.22 | 182.53 | 628.67 | 171.48 | 768.12 | 186.73 | 632.87 | 175.68 | 772.32 | 139.8871 | 136.107 | 143.8132 | 60528.41 | 59485.13 | 61642.25 | 2.05E-19 | 2157.12 | 1043.28 | 1113.84 | 60528.41 | 59485.13 | 61642.25 |
| 14 | 5E-23 | 4096 | 10 | 173.58 | 770.22 | 176.52 | 910.64 | 171.48 | 768.12 | 174.42 | 908.54 | 175.68 | 772.32 | 178.62 | 912.74 | 140.4508 | 136.2258 | 144.7961 | 60686.42 | 59517.48 | 61925.92 | 2.05E-19 | 2408.448 | 1168.944 | 1239.504 | 60686.42 | 59517.48 | 61925.92 |
| 15 | 5E-23 | 4096 | 10 | 176.52 | 910.64 | 319.84 | 70.19 | 174.42 | 908.54 | 317.74 | 68.09 | 178.62 | 912.74 | 321.94 | 72.29 | 852.5824 | 856.0304 | 849.1621 | 767856.8 | 773748 | 762036.2 | 2.05E-19 | 11711.78 | 5891.172 | 5820.612 | 767856.8 | 773748 | 762036.2 |
| 16 | 5E-23 | 4096 | 10 | 319.84 | 70.19 | 321.67 | 210.12 | 317.74 | 68.09 | 319.57 | 208.02 | 321.94 | 72.29 | 323.77 | 212.22 | 139.942 | 135.7507 | 144.2561 | 60543.75 | 59388.25 | 61769.82 | 2.05E-19 | 2381.568 | 1155.504 | 1226.064 | 60543.75 | 59388.25 | 61769.82 |
| 17 | 5E-23 | 4096 | 10 | 321.67 | 210.12 | 373.73 | 350.1 | 319.57 | 208.02 | 371.63 | 348 | 323.77 | 212.22 | 375.83 | 352.2 | 149.3474 | 143.968 | 154.7678 | 63264.64 | 61686.79 | 64913.06 | 2.05E-19 | 3226.272 | 1577.856 | 1648.416 | 63264.64 | 61686.79 | 64913.06 |
| 18 | 5E-23 | 4096 | 10 | 373.73 | 350.1 | 350.01 | 490.76 | 371.63 | 348 | 347.91 | 488.66 | 375.83 | 352.2 | 352.11 | 492.86 | 142.646 | 139.287 | 146.1693 | 61307.87 | 60360.86 | 62325.45 | 2.05E-19 | 1964.592 | 947.016 | 1017.576 | 61307.87 | 60360.86 | 62325.45 |
| 19 | 5E-23 | 4096 | 10 | 350.01 | 490.76 | 355.38 | 630.57 | 347.91 | 488.66 | 353.28 | 628.47 | 352.11 | 492.86 | 357.48 | 632.67 | 139.9131 | 135.615 | 144.3276 | 60535.67 | 59351.44 | 61790.47 | 2.05E-19 | 2439.024 | 1184.232 | 1254.792 | 60535.67 | 59351.44 | 61790.47 |
| 20 | 5E-23 | 4096 | 10 | 355.38 | 630.57 | 326.78 | 770.65 | 353.28 | 628.47 | 324.68 | 768.55 | 357.48 | 632.67 | 328.88 | 772.75 | 142.9698 | 139.7827 | 146.3287 | 61400.37 | 60499.21 | 62372.08 | 2.05E-19 | 1872.864 | 901.152 | 971.712 | 61400.37 | 60499.21 | 62372.08 |
| 21 | 5E-23 | 4096 | 10 | 326.78 | 770.65 | 294.46 | 910.72 | 324.68 | 768.55 | 292.36 | 908.62 | 328.88 | 772.75 | 296.56 | 912.82 | 143.7504 | 140.6925 | 146.9849 | 61624.19 | 60754.37 | 62564.57 | 2.05E-19 | 1810.2 | 869.82 | 940.38 | 61624.19 | 60754.37 | 62564.57 |
| 22 | 5E-23 | 4096 | 10 | 294.46 | 910.72 | 507.43 | 70.51 | 292.36 | 908.62 | 505.33 | 68.41 | 296.56 | 912.82 | 509.53 | 72.61 | 866.7809 | 869.8351 | 863.7566 | 792269.1 | 797573.2 | 787035.5 | 2.05E-19 | 10537.63 | 5304.096 | 5233.536 | 792269.1 | 797573.2 | 787035.5 |
| 23 | 5E-23 | 4096 | 10 | 507.43 | 70.51 | 498.57 | 210.3 | 505.33 | 68.41 | 496.47 | 208.2 | 509.53 | 72.61 | 500.67 | 212.4 | 140.0705 | 136.2175 | 144.0654 | 60579.74 | 59515.21 | 61714.84 | 2.05E-19 | 2199.624 | 1064.532 | 1135.092 | 60579.74 | 59515.21 | 61714.84 |
| 24 | 5E-23 | 4096 | 10 | 498.57 | 210.3 | 497.06 | 350.66 | 496.47 | 208.2 | 494.96 | 348.56 | 500.67 | 212.4 | 499.16 | 352.76 | 140.3681 | 136.2797 | 144.585 | 60663.21 | 59532.15 | 61864.83 | 2.05E-19 | 2332.68 | 1131.06 | 1201.62 | 60663.21 | 59532.15 | 61864.83 |
| 25 | 5E-23 | 4096 | 10 | 497.06 | 350.66 | 479.76 | 490.66 | 494.96 | 348.56 | 477.66 | 488.56 | 499.16 | 352.76 | 481.86 | 492.76 | 141.0648 | 137.4914 | 144.7938 | 60859.29 | 59863.89 | 61925.25 | 2.05E-19 | 2061.36 | 995.4 | 1065.96 | 60859.29 | 59863.89 | 61925.25 |
| 26 | 5E-23 | 4096 | 10 | 479.76 | 490.66 | 500.51 | 630.96 | 477.66 | 488.56 | 498.41 | 628.86 | 481.86 | 492.76 | 502.61 | 633.06 | 141.8261 | 137.1026 | 146.6382 | 61074.65 | 59757.11 | 62462.75 | 2.05E-19 | 2705.64 | 1317.54 | 1388.1 | 61074.65 | 59757.11 | 62462.75 |
| 27 | 5E-23 | 4096 | 10 | 500.51 | 630.96 | 479.34 | 770.14 | 498.41 | 628.86 | 477.24 | 768.04 | 502.61 | 633.06 | 481.44 | 772.24 | 140.7808 | 137.3435 | 144.3808 | 60779.24 | 59823.24 | 61805.81 | 2.05E-19 | 1982.568 | 956.004 | 1026.564 | 60779.24 | 59823.24 | 61805.81 |
| 28 | 5E-23 | 4096 | 10 | 479.34 | 770.14 | 498.56 | 910.18 | 477.24 | 768.04 | 496.46 | 908.08 | 481.44 | 772.24 | 500.66 | 912.28 | 141.3528 | 136.6679 | 146.129 | 60940.61 | 59638.11 | 62313.67 | 2.05E-19 | 2675.568 | 1302.504 | 1373.064 | 60940.61 | 59638.11 | 62313.67 |
| 29 | 5E-23 | 4096 | 10 | 498.56 | 910.18 | 649.68 | 70.99 | 496.46 | 908.08 | 647.58 | 68.89 | 500.66 | 912.28 | 651.78 | 73.09 | 852.6882 | 856.0912 | 849.313 | 768037.1 | 773852.2 | 762292.6 | 2.05E-19 | 11559.58 | 5815.068 | 5744.508 | 768037.1 | 773852.2 | 762292.6 |
| 30 | 5E-23 | 4096 | 10 | 649.68 | 70.99 | 679.79 | 210.56 | 647.58 | 68.89 | 677.69 | 208.46 | 651.78 | 73.09 | 681.89 | 212.66 | 142.7809 | 137.8273 | 147.8073 | 61346.4 | 59956.37 | 62806.99 | 2.05E-19 | 2850.624 | 1390.032 | 1460.592 | 61346.4 | 59956.37 | 62806.99 |
| 31 | 5E-23 | 4096 | 10 | 679.79 | 210.56 | 647.04 | 350.27 | 677.69 | 208.46 | 644.94 | 348.17 | 681.89 | 212.66 | 649.14 | 352.37 | 143.4972 | 140.4573 | 146.7147 | 61551.45 | 60688.26 | 62485.19 | 2.05E-19 | 1796.928 | 863.184 | 933.744 | 61551.45 | 60688.26 | 62485.19 |
| 32 | 5E-23 | 4096 | 10 | 647.04 | 350.27 | 648.28 | 490.91 | 644.94 | 348.17 | 646.18 | 488.81 | 649.14 | 352.37 | 650.38 | 493.01 | 140.6455 | 136.4721 | 144.9421 | 60741.15 | 59584.64 | 61968.22 | 2.05E-19 | 2383.584 | 1156.512 | 1227.072 | 60741.15 | 59584.64 | 61968.22 |
| 33 | 5E-23 | 4096 | 10 | 648.28 | 490.91 | 687.78 | 630.87 | 646.18 | 488.81 | 685.68 | 628.77 | 650.38 | 493.01 | 689.88 | 632.97 | 145.4271 | 140.2743 | 150.638 | 62109.05 | 60636.87 | 63651.8 | 2.05E-19 | 3014.928 | 1472.184 | 1542.744 | 62109.05 | 60636.87 | 63651.8 |
| 34 | 5E-23 | 4096 | 10 | 687.78 | 630.87 | 675.94 | 770.32 | 685.68 | 628.77 | 673.84 | 768.22 | 689.88 | 632.97 | 678.04 | 772.42 | 139.9517 | 136.1978 | 143.853 | 60546.49 | 59509.84 | 61653.69 | 2.05E-19 | 2143.848 | 1036.644 | 1107.204 | 60546.49 | 59509.84 | 61653.69 |
| 35 | 5E-23 | 4096 | 10 | 675.94 | 770.32 | 630.62 | 910.11 | 673.84 | 768.22 | 628.52 | 908.01 | 678.04 | 772.42 | 632.72 | 912.21 | 146.9529 | 144.3498 | 149.7464 | 62555.15 | 61796.88 | 63383.97 | 2.05E-19 | 1587.096 | 758.268 | 828.828 | 62555.15 | 61796.88 | 63383.97 |
| 36 | 5E-23 | 4096 | 10 | 630.62 | 910.11 | 792.59 | 70.88 | 628.52 | 908.01 | 790.49 | 68.78 | 632.72 | 912.21 | 794.69 | 72.98 | 854.7171 | 858.0592 | 851.4033 | 771501.3 | 777225.5 | 765847.6 | 2.05E-19 | 11377.97 | 5724.264 | 5653.704 | 771501.3 | 777225.5 | 765847.6 |
| 37 | 5E-23 | 4096 | 10 | 792.59 | 70.88 | 784.53 | 210.71 | 790.49 | 68.78 | 782.43 | 208.61 | 794.69 | 72.98 | 786.63 | 212.81 | 140.0621 | 136.183 | 144.0817 | 60577.39 | 59505.8 | 61719.54 | 2.05E-19 | 2213.736 | 1071.588 | 1142.148 | 60577.39 | 59505.8 | 61719.54 |
| 38 | 5E-23 | 4096 | 10 | 784.53 | 210.71 | 746.2 | 350.9 | 782.43 | 208.61 | 744.1 | 348.8 | 786.63 | 212.81 | 748.3 | 353 | 145.3356 | 142.4854 | 148.3689 | 62082.43 | 61262.08 | 62973.33 | 2.05E-19 | 1711.248 | 820.344 | 890.904 | 62082.43 | 61262.08 | 62973.33 |
| 39 | 5E-23 | 4096 | 10 | 746.2 | 350.9 | 806.88 | 490.22 | 744.1 | 348.8 | 804.78 | 488.12 | 748.3 | 353 | 808.98 | 492.32 | 151.9609 | 146.4493 | 157.5037 | 64052.12 | 62407.4 | 65767.4 | 2.05E-19 | 3360 | 1644.72 | 1715.28 | 64052.12 | 62407.4 | 65767.4 |
| 40 | 5E-23 | 4096 | 10 | 806.88 | 490.22 | 782.28 | 630.32 | 804.78 | 488.12 | 780.18 | 628.22 | 808.98 | 492.32 | 784.38 | 632.42 | 142.2433 | 138.9181 | 145.7349 | 61193.17 | 60258.25 | 62198.65 | 2.05E-19 | 1940.4 | 934.92 | 1005.48 | 61193.17 | 60258.25 | 62198.65 |
| 41 | 5E-23 | 4096 | 10 | 782.28 | 630.32 | 753.3 | 770.77 | 780.18 | 628.22 | 751.2 | 768.67 | 784.38 | 632.42 | 755.4 | 772.87 | 143.4087 | 140.2319 | 146.7572 | 61526.04 | 60624.97 | 62497.67 | 2.05E-19 | 1872.696 | 901.068 | 971.628 | 61526.04 | 60624.97 | 62497.67 |
| 42 | 5E-23 | 4096 | 10 | 753.3 | 770.77 | 801.9 | 910.19 | 751.2 | 768.67 | 799.8 | 908.09 | 755.4 | 772.87 | 804 | 912.29 | 147.6479 | 142.3229 | 153.0181 | 62759.9 | 61215.81 | 64374.54 | 2.05E-19 | 3158.736 | 1544.088 | 1614.648 | 62759.9 | 61215.81 | 64374.54 |
| 43 | 5E-23 | 4096 | 10 | 801.9 | 910.19 | 883.8 | 70.49 | 799.8 | 908.09 | 881.7 | 68.39 | 804 | 912.29 | 885.9 | 72.59 | 843.6846 | 847.4695 | 839.9247 | 752763.7 | 759164.5 | 746433.5 | 2.05E-19 | 12731.04 | 6400.8 | 6330.24 | 752763.7 | 759164.5 | 746433.5 |
| 44 | 5E-23 | 4096 | 10 | 883.8 | 70.49 | 910.68 | 210.55 | 881.7 | 68.39 | 908.58 | 208.45 | 885.9 | 72.59 | 912.78 | 212.65 | 142.6161 | 137.7401 | 147.57 | 61299.34 | 59932.32 | 62736.91 | 2.05E-19 | 2804.592 | 1367.016 | 1437.576 | 61299.34 | 59932.32 | 62736.91 |
| 45 | 5E-23 | 4096 | 10 | 910.68 | 210.55 | 940.88 | 350.45 | 908.58 | 208.45 | 938.78 | 348.35 | 912.78 | 212.65 | 942.98 | 352.55 | 143.1225 | 138.1683 | 148.1491 | 61444.05 | 60050.49 | 62908.17 | 2.05E-19 | 2857.68 | 1393.56 | 1464.12 | 61444.05 | 60050.49 | 62908.17 |
| 46 | 5E-23 | 4096 | 10 | 940.88 | 350.45 | 893.13 | 490.22 | 938.78 | 348.35 | 891.03 | 488.12 | 942.98 | 352.55 | 895.23 | 492.32 | 147.7014 | 145.1827 | 150.4126 | 62775.72 | 62038.03 | 63583.96 | 2.05E-19 | 1545.936 | 737.688 | 808.248 | 62775.72 | 62038.03 | 63583.96 |
| 47 | 5E-23 | 4096 | 10 | 893.13 | 490.22 | 896.38 | 630.61 | 891.03 | 488.12 | 894.28 | 628.51 | 895.23 | 492.32 | 898.48 | 632.71 | 140.4276 | 136.1933 | 144.7818 | 60679.91 | 59508.62 | 61921.77 | 2.05E-19 | 2413.152 | 1171.296 | 1241.856 | 60679.91 | 59508.62 | 61921.77 |
| 48 | 5E-23 | 4096 | 10 | 896.38 | 630.61 | 894.86 | 770.02 | 894.28 | 628.51 | 892.76 | 767.92 | 898.48 | 632.71 | 896.96 | 772.12 | 139.4183 | 135.3309 | 143.635 | 60397.46 | 59274.46 | 61591.01 | 2.05E-19 | 2316.552 | 1122.996 | 1193.556 | 60397.46 | 59274.46 | 61591.01 |
| 49 | 5E-23 | 4096 | 10 | 894.86 | 770.02 | 911.73 | 910.22 | 892.76 | 767.92 | 909.63 | 908.12 | 896.96 | 772.12 | 913.83 | 912.32 | 141.2113 | 136.5889 | 145.9291 | 60900.64 | 59616.53 | 62255.3 | 2.05E-19 | 2638.776 | 1284.108 | 1354.668 | 60900.64 | 59616.53 | 62255.3 |
| 1 | 5E-23 | 4096 | 10 | 0 | 0 | 75.94 | 70.33 | -2.1 | -2.1 | 73.84 | 68.23 | 2.1 | 2.1 | 78.04 | 72.43 | 103.5046 | 97.56949 | 109.4401 | 51673.19 | 50479.8 | 52937.14 | 2.05E-19 | 2457.336 | 1193.388 | 1263.948 | 51673.19 | 50479.8 | 52937.14 |
| 2 | 5E-23 | 4096 | 10 | 75.94 | 70.33 | 56.76 | 210.45 | 73.84 | 68.23 | 54.66 | 208.35 | 78.04 | 72.43 | 58.86 | 212.55 | 141.4266 | 137.9162 | 145.0954 | 60961.49 | 59980.87 | 62012.66 | 2.05E-19 | 2031.792 | 980.616 | 1051.176 | 60961.49 | 59980.87 | 62012.66 |
| 3 | 5E-23 | 4096 | 10 | 56.76 | 210.45 | 104.61 | 350.97 | 54.66 | 208.35 | 102.51 | 348.87 | 58.86 | 212.55 | 106.71 | 353.07 | 148.4436 | 143.1379 | 153.7956 | 62995.49 | 61448.46 | 64613.08 | 2.05E-19 | 3164.616 | 1547.028 | 1617.588 | 62995.49 | 61448.46 | 64613.08 |
| 4 | 5E-23 | 4096 | 10 | 104.61 | 350.97 | 52.55 | 490.15 | 102.51 | 348.87 | 50.45 | 488.05 | 106.71 | 353.07 | 54.65 | 492.25 | 148.5978 | 146.2354 | 151.1569 | 63041.32 | 62344.79 | 63808.4 | 2.05E-19 | 1463.616 | 696.528 | 767.088 | 63041.32 | 62344.79 | 63808.4 |
| 5 | 5E-23 | 4096 | 10 | 52.55 | 490.15 | 107.66 | 630.82 | 50.45 | 488.05 | 105.56 | 628.72 | 54.65 | 492.25 | 109.76 | 632.92 | 151.08 | 145.6568 | 156.5407 | 63785.16 | 62175.89 | 65464.99 | 2.05E-19 | 3289.104 | 1609.272 | 1679.832 | 63785.16 | 62175.89 | 65464.99 |
| 6 | 5E-23 | 4096 | 10 | 107.66 | 630.82 | 95.19 | 770.18 | 105.56 | 628.72 | 93.09 | 768.08 | 109.76 | 632.92 | 97.29 | 772.28 | 139.9168 | 136.1841 | 143.798 | 60536.71 | 59506.11 | 61637.87 | 2.05E-19 | 2131.752 | 1030.596 | 1101.156 | 60536.71 | 59506.11 | 61637.87 |
| 7 | 5E-23 | 4096 | 10 | 95.19 | 770.18 | 32.17 | 910.48 | 93.09 | 768.08 | 30.07 | 908.38 | 97.29 | 772.28 | 34.27 | 912.58 | 153.8038 | 151.7951 | 156.013 | 64615.61 | 64001.74 | 65300.04 | 2.05E-19 | 1298.304 | 613.872 | 684.432 | 64615.61 | 64001.74 | 65300.04 |
| 8 | 5E-23 | 4096 | 10 | 32.17 | 910.48 | 244.23 | 70.28 | 30.07 | 908.38 | 242.13 | 68.18 | 34.27 | 912.58 | 246.33 | 72.38 | 866.548 | 869.6075 | 863.5186 | 791865.5 | 797177.1 | 786624.4 | 2.05E-19 | 10552.75 | 5311.656 | 5241.096 | 791865.5 | 797177.1 | 786624.4 |
| 9 | 5E-23 | 4096 | 10 | 244.23 | 70.28 | 198.68 | 210.88 | 242.13 | 68.18 | 196.58 | 208.78 | 246.33 | 72.38 | 200.78 | 212.98 | 147.7943 | 145.1896 | 150.5884 | 62803.16 | 62040.02 | 63636.86 | 2.05E-19 | 1596.84 | 763.14 | 833.7 | 62803.16 | 62040.02 | 63636.86 |
| 10 | 5E-23 | 4096 | 10 | 198.68 | 210.88 | 205 | 350.83 | 196.58 | 208.78 | 202.9 | 348.73 | 200.78 | 212.98 | 207.1 | 352.93 | 140.0926 | 135.7666 | 144.5334 | 60585.94 | 59392.56 | 61849.89 | 2.05E-19 | 2457.336 | 1193.388 | 1263.948 | 60585.94 | 59392.56 | 61849.89 |
| 11 | 5E-23 | 4096 | 10 | 205 | 350.83 | 248.66 | 490.28 | 202.9 | 348.73 | 246.56 | 488.18 | 207.1 | 352.93 | 250.76 | 492.38 | 146.1249 | 140.8888 | 151.413 | 62312.5 | 60809.65 | 63885.9 | 2.05E-19 | 3076.248 | 1502.844 | 1573.404 | 62312.5 | 60809.65 | 63885.9 |
| 12 | 5E-23 | 4096 | 10 | 248.66 | 490.28 | 249.86 | 630.17 | 246.56 | 488.18 | 247.76 | 628.07 | 250.76 | 492.38 | 251.96 | 632.27 | 139.8951 | 135.7232 | 144.1912 | 60530.65 | 59380.78 | 61751.09 | 2.05E-19 | 2370.312 | 1149.876 | 1220.436 | 60530.65 | 59380.78 | 61751.09 |
| 13 | 5E-23 | 4096 | 10 | 249.86 | 630.17 | 202.68 | 770.53 | 247.76 | 628.07 | 200.58 | 768.43 | 251.96 | 632.27 | 204.78 | 772.63 | 148.0773 | 145.5316 | 150.814 | 62886.88 | 62139.45 | 63704.87 | 2.05E-19 | 1565.424 | 747.432 | 817.992 | 62886.88 | 62139.45 | 63704.87 |
| 14 | 5E-23 | 4096 | 10 | 202.68 | 770.53 | 175.42 | 910.84 | 200.58 | 768.43 | 173.32 | 908.74 | 204.78 | 772.63 | 177.52 | 912.94 | 142.9336 | 139.6985 | 146.3383 | 61390 | 60475.66 | 62374.9 | 2.05E-19 | 1899.24 | 914.34 | 984.9 | 61390 | 60475.66 | 62374.9 |
| 15 | 5E-23 | 4096 | 10 | 175.42 | 910.84 | 385.55 | 70.14 | 173.32 | 908.74 | 383.45 | 68.04 | 177.52 | 912.94 | 387.65 | 72.24 | 866.5628 | 869.6339 | 863.5216 | 791891.1 | 797223.2 | 786629.6 | 2.05E-19 | 10593.58 | 5332.068 | 5261.508 | 791891.1 | 797223.2 | 786629.6 |
| 16 | 5E-23 | 4096 | 10 | 385.55 | 70.14 | 309.55 | 210.03 | 383.45 | 68.04 | 307.45 | 207.93 | 387.65 | 72.24 | 311.65 | 212.13 | 159.2018 | 157.6192 | 160.9881 | 66305.21 | 65803.82 | 66877.17 | 2.05E-19 | 1073.352 | 501.396 | 571.956 | 66305.21 | 65803.82 | 66877.17 |
| 17 | 5E-23 | 4096 | 10 | 309.55 | 210.03 | 344.61 | 350.67 | 307.45 | 207.93 | 342.51 | 348.57 | 311.65 | 212.13 | 346.71 | 352.77 | 144.9442 | 139.8864 | 150.0666 | 61968.81 | 60528.21 | 63479.97 | 2.05E-19 | 2951.76 | 1440.6 | 1511.16 | 61968.81 | 60528.21 | 63479.97 |
| 18 | 5E-23 | 4096 | 10 | 344.61 | 350.67 | 359.35 | 490.21 | 342.51 | 348.57 | 357.25 | 488.11 | 346.71 | 352.77 | 361.45 | 492.31 | 140.3164 | 135.7498 | 144.9825 | 60648.68 | 59388.01 | 61979.91 | 2.05E-19 | 2591.904 | 1260.672 | 1331.232 | 60648.68 | 59388.01 | 61979.91 |
| 19 | 5E-23 | 4096 | 10 | 359.35 | 490.21 | 327.33 | 630.04 | 357.25 | 488.11 | 325.23 | 627.94 | 361.45 | 492.31 | 329.43 | 632.14 | 143.4493 | 140.383 | 146.6922 | 61537.71 | 60667.39 | 62478.59 | 2.05E-19 | 1811.208 | 870.324 | 940.884 | 61537.71 | 60667.39 | 62478.59 |
| 20 | 5E-23 | 4096 | 10 | 327.33 | 630.04 | 322.82 | 770.82 | 325.23 | 627.94 | 320.72 | 768.72 | 329.43 | 632.14 | 324.92 | 772.92 | 140.8522 | 136.8574 | 144.9803 | 60799.35 | 59689.96 | 61979.3 | 2.05E-19 | 2289.336 | 1109.388 | 1179.948 | 60799.35 | 59689.96 | 61979.3 |
| 21 | 5E-23 | 4096 | 10 | 322.82 | 770.82 | 325.44 | 910.89 | 320.72 | 768.72 | 323.34 | 908.79 | 324.92 | 772.92 | 327.54 | 912.99 | 140.0945 | 135.8792 | 144.4311 | 60586.47 | 59423.15 | 61820.35 | 2.05E-19 | 2397.192 | 1163.316 | 1233.876 | 60586.47 | 59423.15 | 61820.35 |
| 22 | 5E-23 | 4096 | 10 | 325.44 | 910.89 | 489.11 | 70.49 | 323.34 | 908.79 | 487.01 | 68.39 | 327.54 | 912.99 | 491.21 | 72.59 | 856.1892 | 859.523 | 852.8838 | 774020 | 779739.8 | 768370.8 | 2.05E-19 | 11369.06 | 5719.812 | 5649.252 | 774020 | 779739.8 | 768370.8 |
| 23 | 5E-23 | 4096 | 10 | 489.11 | 70.49 | 474.67 | 210.51 | 487.01 | 68.39 | 472.57 | 208.41 | 491.21 | 72.59 | 476.77 | 212.61 | 140.7626 | 137.0931 | 144.5831 | 60774.11 | 59754.52 | 61864.27 | 2.05E-19 | 2109.744 | 1019.592 | 1090.152 | 60774.11 | 59754.52 | 61864.27 |
| 24 | 5E-23 | 4096 | 10 | 474.67 | 210.51 | 521.81 | 350.72 | 472.57 | 208.41 | 519.71 | 348.62 | 476.77 | 212.61 | 523.91 | 352.82 | 147.9224 | 142.6274 | 153.2646 | 62841.02 | 61302.56 | 64450.04 | 2.05E-19 | 3147.48 | 1538.46 | 1609.02 | 62841.02 | 61302.56 | 64450.04 |
| 25 | 5E-23 | 4096 | 10 | 521.81 | 350.72 | 518.59 | 490.39 | 519.71 | 348.62 | 516.49 | 488.29 | 523.91 | 352.82 | 520.69 | 492.49 | 139.7071 | 135.6731 | 143.8733 | 60478.08 | 59367.18 | 61659.54 | 2.05E-19 | 2292.36 | 1110.9 | 1181.46 | 60478.08 | 59367.18 | 61659.54 |
| 26 | 5E-23 | 4096 | 10 | 518.59 | 490.39 | 435.65 | 630.84 | 516.49 | 488.29 | 433.55 | 628.74 | 520.69 | 492.49 | 437.75 | 632.94 | 163.1111 | 161.7326 | 164.6925 | 67565.25 | 67117.44 | 68083.61 | 2.05E-19 | 966.168 | 447.804 | 518.364 | 67565.25 | 67117.44 | 68083.61 |
| 27 | 5E-23 | 4096 | 10 | 435.65 | 630.84 | 475.85 | 770.39 | 433.55 | 628.74 | 473.75 | 768.29 | 437.75 | 632.94 | 477.95 | 772.49 | 145.2248 | 140.0558 | 150.4507 | 62050.24 | 60575.62 | 63595.42 | 2.05E-19 | 3019.8 | 1474.62 | 1545.18 | 62050.24 | 60575.62 | 63595.42 |
| 28 | 5E-23 | 4096 | 10 | 475.85 | 770.39 | 499.87 | 910.94 | 473.75 | 768.29 | 497.77 | 908.84 | 477.95 | 772.49 | 501.97 | 913.04 | 142.5877 | 137.783 | 147.4752 | 61291.26 | 59944.15 | 62708.93 | 2.05E-19 | 2764.776 | 1347.108 | 1417.668 | 61291.26 | 59944.15 | 62708.93 |
| 29 | 5E-23 | 4096 | 10 | 499.87 | 910.94 | 655.84 | 70.82 | 497.77 | 908.84 | 653.74 | 68.72 | 501.97 | 913.04 | 657.94 | 72.92 | 854.4754 | 857.8522 | 851.1267 | 771088.3 | 776870.4 | 765376.7 | 2.05E-19 | 11493.72 | 5782.14 | 5711.58 | 771088.3 | 776870.4 | 765376.7 |
| 30 | 5E-23 | 4096 | 10 | 655.84 | 70.82 | 610.43 | 210.52 | 653.74 | 68.72 | 608.33 | 208.42 | 657.94 | 72.92 | 612.53 | 212.62 | 146.8951 | 144.2962 | 149.6846 | 62538.16 | 61781.4 | 63365.47 | 2.05E-19 | 1584.072 | 756.756 | 827.316 | 62538.16 | 61781.4 | 63365.47 |
| 31 | 5E-23 | 4096 | 10 | 610.43 | 210.52 | 649.04 | 350.44 | 608.33 | 208.42 | 646.94 | 348.34 | 612.53 | 212.62 | 651.14 | 352.54 | 145.1494 | 140.0142 | 150.3438 | 62028.34 | 60563.97 | 63563.27 | 2.05E-19 | 2999.304 | 1464.372 | 1534.932 | 62028.34 | 60563.97 | 63563.27 |
| 32 | 5E-23 | 4096 | 10 | 649.04 | 350.44 | 650.72 | 490.14 | 646.94 | 348.34 | 648.62 | 488.04 | 651.14 | 352.54 | 652.82 | 492.24 | 139.7101 | 135.5234 | 144.0201 | 60478.91 | 59326.6 | 61701.78 | 2.05E-19 | 2375.184 | 1152.312 | 1222.872 | 60478.91 | 59326.6 | 61701.78 |
| 33 | 5E-23 | 4096 | 10 | 650.72 | 490.14 | 636.46 | 630.12 | 648.62 | 488.04 | 634.36 | 628.02 | 652.82 | 492.24 | 638.56 | 632.22 | 140.7045 | 137.0291 | 144.5305 | 60757.75 | 59736.98 | 61849.08 | 2.05E-19 | 2112.096 | 1020.768 | 1091.328 | 60757.75 | 59736.98 | 61849.08 |
| 34 | 5E-23 | 4096 | 10 | 636.46 | 630.12 | 685.28 | 770.05 | 634.36 | 628.02 | 683.18 | 767.95 | 638.56 | 632.22 | 687.38 | 772.15 | 148.2019 | 142.8761 | 153.5727 | 62923.8 | 61373.58 | 64544.58 | 2.05E-19 | 3171 | 1550.22 | 1620.78 | 62923.8 | 61373.58 | 64544.58 |
| 35 | 5E-23 | 4096 | 10 | 685.28 | 770.05 | 632.03 | 910.52 | 683.18 | 767.95 | 629.93 | 908.42 | 687.38 | 772.15 | 634.13 | 912.62 | 150.2244 | 147.8851 | 152.759 | 63527.38 | 62830.02 | 64295.31 | 2.05E-19 | 1465.296 | 697.368 | 767.928 | 63527.38 | 62830.02 | 64295.31 |
| 36 | 5E-23 | 4096 | 10 | 632.03 | 910.52 | 775.28 | 70.89 | 629.93 | 908.42 | 773.18 | 68.79 | 634.13 | 912.62 | 777.38 | 72.99 | 851.7623 | 855.2099 | 848.3424 | 766459.1 | 772344 | 760644.8 | 2.05E-19 | 11699.18 | 5884.872 | 5814.312 | 766459.1 | 772344 | 760644.8 |
| 37 | 5E-23 | 4096 | 10 | 775.28 | 70.89 | 740.33 | 210.22 | 773.18 | 68.79 | 738.23 | 208.12 | 777.38 | 72.99 | 742.43 | 212.32 | 143.6466 | 140.687 | 146.787 | 61594.35 | 60752.84 | 62506.42 | 2.05E-19 | 1753.584 | 841.512 | 912.072 | 61594.35 | 60752.84 | 62506.42 |
| 38 | 5E-23 | 4096 | 10 | 740.33 | 210.22 | 729.81 | 350.62 | 738.23 | 208.12 | 727.71 | 348.52 | 742.43 | 212.32 | 731.91 | 352.72 | 140.7936 | 136.9931 | 144.738 | 60782.83 | 59727.12 | 61909.1 | 2.05E-19 | 2181.984 | 1055.712 | 1126.272 | 60782.83 | 59727.12 | 61909.1 |
| 39 | 5E-23 | 4096 | 10 | 729.81 | 350.62 | 741.93 | 490.13 | 727.71 | 348.52 | 739.83 | 488.03 | 731.91 | 352.72 | 744.03 | 492.23 | 140.0355 | 135.5416 | 144.6337 | 60569.93 | 59331.52 | 61878.91 | 2.05E-19 | 2547.384 | 1238.412 | 1308.972 | 60569.93 | 59331.52 | 61878.91 |
| 40 | 5E-23 | 4096 | 10 | 741.93 | 490.13 | 803.87 | 630.75 | 739.83 | 488.03 | 801.77 | 628.65 | 744.03 | 492.23 | 805.97 | 632.85 | 153.6572 | 148.1362 | 159.2085 | 64570.55 | 62904.32 | 66307.33 | 2.05E-19 | 3403.008 | 1666.224 | 1736.784 | 64570.55 | 62904.32 | 66307.33 |
| 41 | 5E-23 | 4096 | 10 | 803.87 | 630.75 | 745.58 | 770.27 | 801.77 | 628.65 | 743.48 | 768.17 | 805.97 | 632.85 | 747.68 | 772.37 | 151.207 | 149.052 | 153.5616 | 63823.55 | 63176.5 | 64541.17 | 2.05E-19 | 1364.664 | 647.052 | 717.612 | 63823.55 | 63176.5 | 64541.17 |
| 42 | 5E-23 | 4096 | 10 | 745.58 | 770.27 | 754.18 | 910.96 | 743.48 | 768.17 | 752.08 | 908.86 | 747.68 | 772.37 | 756.28 | 913.06 | 140.9526 | 136.5609 | 145.4543 | 60827.64 | 59608.88 | 62116.95 | 2.05E-19 | 2508.072 | 1218.756 | 1289.316 | 60827.64 | 59608.88 | 62116.95 |
| 43 | 5E-23 | 4096 | 10 | 754.18 | 910.96 | 866.14 | 70.73 | 752.08 | 908.86 | 864.04 | 68.63 | 756.28 | 913.06 | 868.24 | 72.83 | 847.6565 | 851.278 | 844.0612 | 759481.5 | 765634.2 | 753399.3 | 2.05E-19 | 12234.94 | 6152.748 | 6082.188 | 759481.5 | 765634.2 | 753399.3 |
| 44 | 5E-23 | 4096 | 10 | 866.14 | 70.73 | 899.06 | 210.54 | 864.04 | 68.63 | 896.96 | 208.44 | 868.24 | 72.83 | 901.16 | 212.64 | 143.6334 | 138.6179 | 148.7171 | 61590.56 | 60174.91 | 63076.77 | 2.05E-19 | 2901.864 | 1415.652 | 1486.212 | 61590.56 | 60174.91 | 63076.77 |
| 45 | 5E-23 | 4096 | 10 | 899.06 | 210.54 | 952.89 | 350.91 | 896.96 | 208.44 | 950.79 | 348.81 | 901.16 | 212.64 | 954.99 | 353.01 | 150.3376 | 144.9324 | 155.7818 | 63561.41 | 61965.41 | 65227.97 | 2.05E-19 | 3262.56 | 1596 | 1666.56 | 63561.41 | 61965.41 | 65227.97 |
| 46 | 5E-23 | 4096 | 10 | 952.89 | 350.91 | 918.98 | 490.31 | 950.79 | 348.81 | 916.88 | 488.21 | 954.99 | 353.01 | 921.08 | 492.41 | 143.4651 | 140.4685 | 146.6412 | 61542.25 | 60691.41 | 62463.64 | 2.05E-19 | 1772.232 | 850.836 | 921.396 | 61542.25 | 60691.41 | 62463.64 |
| 47 | 5E-23 | 4096 | 10 | 918.98 | 490.31 | 894.95 | 630.54 | 916.88 | 488.21 | 892.85 | 628.44 | 921.08 | 492.41 | 897.05 | 632.64 | 142.274 | 138.9284 | 145.785 | 61201.89 | 60261.09 | 62213.25 | 2.05E-19 | 1952.16 | 940.8 | 1011.36 | 61201.89 | 60261.09 | 62213.25 |
| 48 | 5E-23 | 4096 | 10 | 894.95 | 630.54 | 903.99 | 770.78 | 892.85 | 628.44 | 901.89 | 768.68 | 897.05 | 632.64 | 906.09 | 772.88 | 140.5311 | 136.1261 | 145.0455 | 60708.98 | 59490.31 | 61998.21 | 2.05E-19 | 2507.904 | 1218.672 | 1289.232 | 60708.98 | 59490.31 | 61998.21 |
| 49 | 5E-23 | 4096 | 10 | 903.99 | 770.78 | 919.42 | 910.07 | 901.89 | 768.68 | 917.32 | 907.97 | 906.09 | 772.88 | 921.52 | 912.17 | 140.142 | 135.556 | 144.8265 | 60599.79 | 59335.42 | 61934.72 | 2.05E-19 | 2599.296 | 1264.368 | 1334.928 | 60599.79 | 59335.42 | 61934.72 |
| 1 | 5E-23 | 4096 | 10 | 0 | 0 | 97.47 | 70.12 | -2.1 | -2.1 | 95.37 | 68.02 | 2.1 | 2.1 | 99.57 | 72.22 | 120.0717 | 114.2136 | 125.9375 | 55377.22 | 54004.74 | 56820.25 | 2.05E-19 | 2815.512 | 1372.476 | 1443.036 | 55377.22 | 54004.74 | 56820.25 |
| 2 | 5E-23 | 4096 | 10 | 97.47 | 70.12 | 86.4 | 210.28 | 95.37 | 68.02 | 84.3 | 208.18 | 99.57 | 72.22 | 88.5 | 212.38 | 140.5965 | 136.8148 | 144.5234 | 60727.37 | 59678.29 | 61847.01 | 2.05E-19 | 2168.712 | 1049.076 | 1119.636 | 60727.37 | 59678.29 | 61847.01 |
| 3 | 5E-23 | 4096 | 10 | 86.4 | 210.28 | 66.09 | 350.79 | 84.3 | 208.18 | 63.99 | 348.69 | 88.5 | 212.38 | 68.19 | 352.89 | 141.9703 | 138.4961 | 145.604 | 61115.56 | 60141.16 | 62160.52 | 2.05E-19 | 2019.36 | 974.4 | 1044.96 | 61115.56 | 60141.16 | 62160.52 |
| 4 | 5E-23 | 4096 | 10 | 66.09 | 350.79 | 103.32 | 490.67 | 63.99 | 348.69 | 101.22 | 488.57 | 68.19 | 352.89 | 105.42 | 492.77 | 144.7497 | 139.6426 | 149.9183 | 61912.49 | 60460.04 | 63435.49 | 2.05E-19 | 2975.448 | 1452.444 | 1523.004 | 61912.49 | 60460.04 | 63435.49 |
| 5 | 5E-23 | 4096 | 10 | 103.32 | 490.67 | 112.74 | 630.69 | 101.22 | 488.57 | 110.64 | 628.59 | 105.42 | 492.77 | 114.84 | 632.79 | 140.3365 | 135.9203 | 144.8617 | 60654.34 | 59434.32 | 61944.91 | 2.05E-19 | 2510.592 | 1220.016 | 1290.576 | 60654.34 | 59434.32 | 61944.91 |
| 6 | 5E-23 | 4096 | 10 | 112.74 | 630.69 | 65.21 | 770.35 | 110.64 | 628.59 | 63.11 | 768.25 | 114.84 | 632.79 | 67.31 | 772.45 | 147.5263 | 145.0014 | 150.2438 | 62724.02 | 61985.4 | 63533.19 | 2.05E-19 | 1547.784 | 738.612 | 809.172 | 62724.02 | 61985.4 | 63533.19 |
| 7 | 5E-23 | 4096 | 10 | 65.21 | 770.35 | 68.95 | 910.3 | 63.11 | 768.25 | 66.85 | 908.2 | 67.31 | 772.45 | 71.05 | 912.4 | 140 | 135.7508 | 144.3685 | 60559.99 | 59388.27 | 61802.27 | 2.05E-19 | 2413.992 | 1171.716 | 1242.276 | 60559.99 | 59388.27 | 61802.27 |
| 8 | 5E-23 | 4096 | 10 | 68.95 | 910.3 | 196.45 | 70.14 | 66.85 | 908.2 | 194.35 | 68.04 | 71.05 | 912.4 | 198.55 | 72.24 | 849.7794 | 853.3151 | 846.2706 | 763085.1 | 769106.7 | 757134 | 2.05E-19 | 11972.69 | 6021.624 | 5951.064 | 763085.1 | 769106.7 | 757134 |
| 9 | 5E-23 | 4096 | 10 | 196.45 | 70.14 | 205.39 | 210.31 | 194.35 | 68.04 | 203.29 | 208.21 | 198.55 | 72.24 | 207.49 | 212.41 | 140.4548 | 136.0526 | 144.9667 | 60687.55 | 59470.31 | 61975.36 | 2.05E-19 | 2505.048 | 1217.244 | 1287.804 | 60687.55 | 59470.31 | 61975.36 |
| 10 | 5E-23 | 4096 | 10 | 205.39 | 210.31 | 167.37 | 350.41 | 203.29 | 208.21 | 165.27 | 348.31 | 207.49 | 212.41 | 169.47 | 352.51 | 145.1672 | 142.3072 | 148.2103 | 62033.53 | 61211.34 | 62926.28 | 2.05E-19 | 1714.944 | 822.192 | 892.752 | 62033.53 | 61211.34 | 62926.28 |
| 11 | 5E-23 | 4096 | 10 | 167.37 | 350.41 | 180.03 | 490.91 | 165.27 | 348.31 | 177.93 | 488.81 | 169.47 | 352.51 | 182.13 | 493.01 | 141.0692 | 136.5623 | 145.6789 | 60860.53 | 59609.26 | 62182.35 | 2.05E-19 | 2573.088 | 1251.264 | 1321.824 | 60860.53 | 59609.26 | 62182.35 |
| 12 | 5E-23 | 4096 | 10 | 180.03 | 490.91 | 171.01 | 630.58 | 177.93 | 488.81 | 168.91 | 628.48 | 182.13 | 493.01 | 173.11 | 632.68 | 139.961 | 136.1135 | 143.9507 | 60549.07 | 59486.89 | 61681.81 | 2.05E-19 | 2194.92 | 1062.18 | 1132.74 | 60549.07 | 59486.89 | 61681.81 |
| 13 | 5E-23 | 4096 | 10 | 171.01 | 630.58 | 165.19 | 770.08 | 168.91 | 628.48 | 163.09 | 767.98 | 173.11 | 632.68 | 167.29 | 772.18 | 139.6214 | 135.6705 | 143.7091 | 60454.12 | 59366.49 | 61612.31 | 2.05E-19 | 2245.824 | 1087.632 | 1158.192 | 60454.12 | 59366.49 | 61612.31 |
| 14 | 5E-23 | 4096 | 10 | 165.19 | 770.08 | 166.1 | 910.72 | 163.09 | 767.98 | 164 | 908.62 | 167.29 | 772.18 | 168.2 | 912.82 | 140.6429 | 136.4797 | 144.9301 | 60740.44 | 59586.7 | 61964.74 | 2.05E-19 | 2378.04 | 1153.74 | 1224.3 | 60740.44 | 59586.7 | 61964.74 |
| 15 | 5E-23 | 4096 | 10 | 166.1 | 910.72 | 317.69 | 70.1 | 164 | 908.62 | 315.59 | 68 | 168.2 | 912.82 | 319.79 | 72.2 | 854.1789 | 857.5807 | 850.8049 | 770581.5 | 776404.6 | 764828.9 | 2.05E-19 | 11575.7 | 5823.132 | 5752.572 | 770581.5 | 776404.6 | 764828.9 |
| 16 | 5E-23 | 4096 | 10 | 317.69 | 70.1 | 370.55 | 210.42 | 315.59 | 68 | 368.45 | 208.32 | 319.79 | 72.2 | 372.65 | 212.52 | 149.9463 | 144.556 | 155.3766 | 63443.88 | 61856.45 | 65101.87 | 2.05E-19 | 3245.424 | 1587.432 | 1657.992 | 63443.88 | 61856.45 | 65101.87 |
| 17 | 5E-23 | 4096 | 10 | 370.55 | 210.42 | 375.35 | 350.63 | 368.45 | 208.32 | 373.25 | 348.53 | 372.65 | 212.52 | 377.45 | 352.73 | 140.2921 | 136.0113 | 144.6902 | 60641.88 | 59459.08 | 61895.25 | 2.05E-19 | 2436.168 | 1182.804 | 1253.364 | 60641.88 | 59459.08 | 61895.25 |
| 18 | 5E-23 | 4096 | 10 | 375.35 | 350.63 | 361.89 | 490.57 | 373.25 | 348.53 | 359.79 | 488.47 | 377.45 | 352.73 | 363.99 | 492.67 | 140.5858 | 136.884 | 144.4371 | 60724.38 | 59697.22 | 61822.09 | 2.05E-19 | 2124.864 | 1027.152 | 1097.712 | 60724.38 | 59697.22 | 61822.09 |
| 19 | 5E-23 | 4096 | 10 | 361.89 | 490.57 | 367.8 | 630.66 | 359.79 | 488.47 | 365.7 | 628.56 | 363.99 | 492.67 | 369.9 | 632.76 | 140.2146 | 135.9008 | 144.6438 | 60620.14 | 59429.02 | 61881.82 | 2.05E-19 | 2452.8 | 1191.12 | 1261.68 | 60620.14 | 59429.02 | 61881.82 |
| 20 | 5E-23 | 4096 | 10 | 367.8 | 630.66 | 320.21 | 770.38 | 365.7 | 628.56 | 318.11 | 768.28 | 369.9 | 632.76 | 322.31 | 772.48 | 147.6025 | 145.0789 | 150.3185 | 62746.49 | 62007.87 | 63555.66 | 2.05E-19 | 1547.784 | 738.612 | 809.172 | 62746.49 | 62007.87 | 63555.66 |
| 21 | 5E-23 | 4096 | 10 | 320.21 | 770.38 | 280.42 | 910.09 | 318.11 | 768.28 | 278.32 | 907.99 | 322.31 | 772.48 | 282.52 | 912.19 | 145.2657 | 142.4713 | 148.2455 | 62062.13 | 61258.08 | 62936.74 | 2.05E-19 | 1678.656 | 804.048 | 874.608 | 62062.13 | 61258.08 | 62936.74 |
| 22 | 5E-23 | 4096 | 10 | 280.42 | 910.09 | 514.69 | 70.59 | 278.32 | 907.99 | 512.59 | 68.49 | 282.52 | 912.19 | 516.79 | 72.69 | 871.5748 | 874.5067 | 868.6737 | 800602.7 | 805721.9 | 795554 | 2.05E-19 | 10167.86 | 5119.212 | 5048.652 | 800602.7 | 805721.9 | 795554 |
| 23 | 5E-23 | 4096 | 10 | 514.69 | 70.59 | 510.4 | 210.39 | 512.59 | 68.49 | 508.3 | 208.29 | 516.79 | 72.69 | 512.5 | 212.49 | 139.8658 | 135.8655 | 144 | 60522.44 | 59419.44 | 61696.01 | 2.05E-19 | 2276.568 | 1103.004 | 1173.564 | 60522.44 | 59419.44 | 61696.01 |
| 24 | 5E-23 | 4096 | 10 | 510.4 | 210.39 | 460.01 | 350.99 | 508.3 | 208.29 | 457.91 | 348.89 | 512.5 | 212.49 | 462.11 | 353.09 | 149.357 | 146.9184 | 151.9887 | 63267.51 | 62545.03 | 64060.56 | 2.05E-19 | 1515.528 | 722.484 | 793.044 | 63267.51 | 62545.03 | 64060.56 |
| 25 | 5E-23 | 4096 | 10 | 460.01 | 350.99 | 473.37 | 490.89 | 457.91 | 348.89 | 471.27 | 488.79 | 462.11 | 353.09 | 475.47 | 492.99 | 140.5365 | 136.0088 | 145.166 | 60710.5 | 59458.4 | 62033.16 | 2.05E-19 | 2574.768 | 1252.104 | 1322.664 | 60710.5 | 59458.4 | 62033.16 |
| 26 | 5E-23 | 4096 | 10 | 473.37 | 490.89 | 515.69 | 630.35 | 471.27 | 488.79 | 513.59 | 628.25 | 475.47 | 492.99 | 517.79 | 632.45 | 145.7397 | 140.529 | 151.0043 | 62200.07 | 60708.4 | 63762.31 | 2.05E-19 | 3053.904 | 1491.672 | 1562.232 | 62200.07 | 60708.4 | 63762.31 |
| 27 | 5E-23 | 4096 | 10 | 515.69 | 630.35 | 518.9 | 770.2 | 513.59 | 628.25 | 516.8 | 768.1 | 517.79 | 632.45 | 521 | 772.3 | 139.8868 | 135.6536 | 144.2405 | 60528.33 | 59361.9 | 61765.31 | 2.05E-19 | 2403.408 | 1166.424 | 1236.984 | 60528.33 | 59361.9 | 61765.31 |
| 28 | 5E-23 | 4096 | 10 | 518.9 | 770.2 | 434.05 | 910.03 | 516.8 | 768.1 | 431.95 | 907.93 | 521 | 772.3 | 436.15 | 912.13 | 163.5602 | 162.251 | 165.0729 | 67711.95 | 67285.4 | 68209.06 | 2.05E-19 | 923.664 | 426.552 | 497.112 | 67711.95 | 67285.4 | 68209.06 |
| 29 | 5E-23 | 4096 | 10 | 434.05 | 910.03 | 620.9 | 70.79 | 431.95 | 907.93 | 618.8 | 68.69 | 436.15 | 912.13 | 623 | 72.89 | 859.7888 | 862.9902 | 856.6165 | 780196.7 | 785712.1 | 774751.9 | 2.05E-19 | 10960.15 | 5515.356 | 5444.796 | 780196.7 | 785712.1 | 774751.9 |
| 30 | 5E-23 | 4096 | 10 | 620.9 | 70.79 | 684.48 | 210.68 | 618.8 | 68.69 | 682.38 | 208.58 | 623 | 72.89 | 686.58 | 212.78 | 153.6608 | 148.114 | 159.2359 | 64571.63 | 62897.76 | 66316.06 | 2.05E-19 | 3418.296 | 1673.868 | 1744.428 | 64571.63 | 62897.76 | 66316.06 |
| 31 | 5E-23 | 4096 | 10 | 684.48 | 210.68 | 654.86 | 350.16 | 682.38 | 208.58 | 652.76 | 348.06 | 686.58 | 212.78 | 656.96 | 352.26 | 142.5904 | 139.4434 | 145.9113 | 61292.01 | 60404.47 | 62250.12 | 2.05E-19 | 1845.648 | 887.544 | 958.104 | 61292.01 | 60404.47 | 62250.12 |
| 32 | 5E-23 | 4096 | 10 | 654.86 | 350.16 | 657.32 | 490.04 | 652.76 | 348.06 | 655.22 | 487.94 | 656.96 | 352.26 | 659.42 | 492.14 | 139.9016 | 135.6912 | 144.2338 | 60532.47 | 59372.09 | 61763.4 | 2.05E-19 | 2391.312 | 1160.376 | 1230.936 | 60532.47 | 59372.09 | 61763.4 |
| 33 | 5E-23 | 4096 | 10 | 657.32 | 490.04 | 635.48 | 630.96 | 655.22 | 487.94 | 633.38 | 628.86 | 659.42 | 492.14 | 637.58 | 633.06 | 142.6024 | 139.1777 | 146.1882 | 61295.43 | 60330.44 | 62330.98 | 2.05E-19 | 2000.544 | 964.992 | 1035.552 | 61295.43 | 60330.44 | 62330.98 |
| 34 | 5E-23 | 4096 | 10 | 635.48 | 630.96 | 688.76 | 770.1 | 633.38 | 628.86 | 686.66 | 768 | 637.58 | 633.06 | 690.86 | 772.2 | 148.9923 | 143.5885 | 154.4354 | 63158.7 | 61577.65 | 64810.31 | 2.05E-19 | 3232.656 | 1581.048 | 1651.608 | 63158.7 | 61577.65 | 64810.31 |
| 35 | 5E-23 | 4096 | 10 | 688.76 | 770.1 | 611.92 | 910.95 | 686.66 | 768 | 609.82 | 908.85 | 690.86 | 772.2 | 614.02 | 913.05 | 160.4466 | 158.8732 | 162.2223 | 66703.11 | 66200.7 | 67276.07 | 2.05E-19 | 1075.368 | 502.404 | 572.964 | 66703.11 | 66200.7 | 67276.07 |
| 36 | 5E-23 | 4096 | 10 | 611.92 | 910.95 | 794.22 | 70.67 | 609.82 | 908.85 | 792.12 | 68.57 | 614.02 | 913.05 | 796.32 | 72.77 | 859.8278 | 863.0562 | 856.6283 | 780263.8 | 785826.1 | 774772 | 2.05E-19 | 11054.06 | 5562.312 | 5491.752 | 780263.8 | 785826.1 | 774772 |
| 37 | 5E-23 | 4096 | 10 | 794.22 | 70.67 | 787.64 | 210.19 | 792.12 | 68.57 | 785.54 | 208.09 | 796.32 | 72.77 | 789.74 | 212.29 | 139.6751 | 135.7487 | 143.7397 | 60469.13 | 59387.71 | 61621.1 | 2.05E-19 | 2233.392 | 1081.416 | 1151.976 | 60469.13 | 59387.71 | 61621.1 |
| 38 | 5E-23 | 4096 | 10 | 787.64 | 210.19 | 721.48 | 350.88 | 785.54 | 208.09 | 719.38 | 348.78 | 789.74 | 212.29 | 723.58 | 352.98 | 155.4697 | 153.558 | 157.5822 | 65130.82 | 64540.05 | 65792.15 | 2.05E-19 | 1252.104 | 590.772 | 661.332 | 65130.82 | 64540.05 | 65792.15 |
| 39 | 5E-23 | 4096 | 10 | 721.48 | 350.88 | 820.24 | 491 | 719.38 | 348.78 | 818.14 | 488.9 | 723.58 | 352.98 | 822.34 | 493.1 | 171.4268 | 165.5773 | 177.2823 | 70347.15 | 68375.84 | 72389.02 | 2.05E-19 | 4013.184 | 1971.312 | 2041.872 | 70347.15 | 68375.84 | 72389.02 |
| 40 | 5E-23 | 4096 | 10 | 820.24 | 491 | 810.23 | 630.92 | 818.14 | 488.9 | 808.13 | 628.82 | 822.34 | 493.1 | 812.33 | 633.02 | 140.2776 | 136.4619 | 144.2371 | 60637.81 | 59581.84 | 61764.33 | 2.05E-19 | 2182.488 | 1055.964 | 1126.524 | 60637.81 | 59581.84 | 61764.33 |
| 41 | 5E-23 | 4096 | 10 | 810.23 | 630.92 | 740 | 770.94 | 808.13 | 628.82 | 737.9 | 768.84 | 812.33 | 633.02 | 742.1 | 773.04 | 156.6456 | 154.877 | 158.6171 | 65497.85 | 64946.9 | 66119.37 | 2.05E-19 | 1172.472 | 550.956 | 621.516 | 65497.85 | 64946.9 | 66119.37 |
| 42 | 5E-23 | 4096 | 10 | 740 | 770.94 | 806.69 | 910.96 | 737.9 | 768.84 | 804.59 | 908.86 | 742.1 | 773.04 | 808.79 | 913.06 | 155.0908 | 149.5061 | 160.701 | 65013.16 | 63312.07 | 66784.8 | 2.05E-19 | 3472.728 | 1701.084 | 1771.644 | 65013.16 | 63312.07 | 66784.8 |
| 43 | 5E-23 | 4096 | 10 | 806.69 | 910.96 | 859.31 | 70.71 | 804.59 | 908.86 | 857.21 | 68.61 | 808.79 | 913.06 | 861.41 | 72.81 | 841.896 | 845.837 | 837.9786 | 749748.9 | 756400.3 | 743168.1 | 2.05E-19 | 13232.18 | 6651.372 | 6580.812 | 749748.9 | 756400.3 | 743168.1 |
| 44 | 5E-23 | 4096 | 10 | 859.31 | 70.71 | 888.63 | 210.36 | 857.21 | 68.61 | 886.53 | 208.26 | 861.41 | 72.81 | 890.73 | 212.46 | 142.6947 | 137.7596 | 147.7038 | 61321.78 | 59937.72 | 62776.41 | 2.05E-19 | 2838.696 | 1384.068 | 1454.628 | 61321.78 | 59937.72 | 62776.41 |
| 45 | 5E-23 | 4096 | 10 | 888.63 | 210.36 | 866.71 | 350.88 | 886.53 | 208.26 | 864.61 | 348.78 | 890.73 | 212.46 | 868.81 | 352.98 | 142.2194 | 138.7998 | 145.8008 | 61186.36 | 60225.4 | 62217.88 | 2.05E-19 | 1992.48 | 960.96 | 1031.52 | 61186.36 | 60225.4 | 62217.88 |
| 46 | 5E-23 | 4096 | 10 | 866.71 | 350.88 | 878 | 490.07 | 864.61 | 348.78 | 875.9 | 487.97 | 868.81 | 352.98 | 880.1 | 492.17 | 139.6471 | 135.1761 | 144.2242 | 60461.32 | 59232.57 | 61760.63 | 2.05E-19 | 2528.064 | 1228.752 | 1299.312 | 60461.32 | 59232.57 | 61760.63 |
| 47 | 5E-23 | 4096 | 10 | 878 | 490.07 | 891.87 | 630.68 | 875.9 | 487.97 | 889.77 | 628.58 | 880.1 | 492.17 | 893.97 | 632.78 | 141.2924 | 136.7523 | 145.9331 | 60923.55 | 59661.2 | 62256.46 | 2.05E-19 | 2595.264 | 1262.352 | 1332.912 | 60923.55 | 59661.2 | 62256.46 |
| 48 | 5E-23 | 4096 | 10 | 891.87 | 630.68 | 885.42 | 770.89 | 889.77 | 628.58 | 883.32 | 768.79 | 893.97 | 632.78 | 887.52 | 772.99 | 140.3583 | 136.4263 | 144.4275 | 60660.45 | 59572.14 | 61819.31 | 2.05E-19 | 2247.168 | 1088.304 | 1158.864 | 60660.45 | 59572.14 | 61819.31 |
| 49 | 5E-23 | 4096 | 10 | 885.42 | 770.89 | 880.68 | 910.75 | 883.32 | 768.79 | 878.58 | 908.65 | 887.52 | 772.99 | 882.78 | 912.85 | 139.9403 | 135.9543 | 144.061 | 60543.29 | 59443.56 | 61713.58 | 2.05E-19 | 2270.016 | 1099.728 | 1170.288 | 60543.29 | 59443.56 | 61713.58 |
| 1 | 5E-23 | 4096 | 10 | 0 | 0 | 22.96 | 70.07 | -2.1 | -2.1 | 20.86 | 67.97 | 2.1 | 2.1 | 25.06 | 72.17 | 73.73579 | 68.48938 | 79.08033 | 46396.97 | 45650.79 | 47213.7 | 2.05E-19 | 1562.904 | 746.172 | 816.732 | 46396.97 | 45650.79 | 47213.7 |
| 2 | 5E-23 | 4096 | 10 | 22.96 | 70.07 | 29.55 | 210.55 | 20.86 | 67.97 | 27.45 | 208.45 | 25.06 | 72.17 | 31.65 | 212.65 | 140.6345 | 136.301 | 145.0818 | 60738.06 | 59537.95 | 62008.73 | 2.05E-19 | 2470.776 | 1200.108 | 1270.668 | 60738.06 | 59537.95 | 62008.73 |
| 3 | 5E-23 | 4096 | 10 | 29.55 | 210.55 | 113.87 | 350.8 | 27.45 | 208.45 | 111.77 | 348.7 | 31.65 | 212.65 | 115.97 | 352.9 | 163.6457 | 157.8886 | 169.4154 | 67739.92 | 65888.82 | 69661.59 | 2.05E-19 | 3772.776 | 1851.108 | 1921.668 | 67739.92 | 65888.82 | 69661.59 |
| 4 | 5E-23 | 4096 | 10 | 113.87 | 350.8 | 104.72 | 490.73 | 111.77 | 348.7 | 102.62 | 488.63 | 115.97 | 352.9 | 106.82 | 492.83 | 140.2288 | 136.385 | 144.215 | 60624.13 | 59560.86 | 61757.96 | 2.05E-19 | 2197.104 | 1063.272 | 1133.832 | 60624.13 | 59560.86 | 61757.96 |
| 5 | 5E-23 | 4096 | 10 | 104.72 | 490.73 | 77.59 | 630.9 | 102.62 | 488.63 | 75.49 | 628.8 | 106.82 | 492.83 | 79.69 | 633 | 142.7714 | 139.5328 | 146.1796 | 61343.67 | 60429.41 | 62328.48 | 2.05E-19 | 1899.072 | 914.256 | 984.816 | 61343.67 | 60429.41 | 62328.48 |
| 6 | 5E-23 | 4096 | 10 | 77.59 | 630.9 | 99.32 | 770.53 | 75.49 | 628.8 | 97.22 | 768.43 | 79.69 | 633 | 101.42 | 772.63 | 141.3108 | 136.5598 | 146.1487 | 60928.73 | 59608.59 | 62319.43 | 2.05E-19 | 2710.848 | 1320.144 | 1390.704 | 60928.73 | 59608.59 | 62319.43 |
| 7 | 5E-23 | 4096 | 10 | 99.32 | 770.53 | 27.49 | 910.91 | 97.22 | 768.43 | 25.39 | 908.81 | 101.42 | 772.63 | 29.59 | 913.01 | 157.6899 | 155.9665 | 159.6158 | 65826.09 | 65285.55 | 66437.19 | 2.05E-19 | 1151.64 | 540.54 | 611.1 | 65826.09 | 65285.55 | 66437.19 |
| 8 | 5E-23 | 4096 | 10 | 27.49 | 910.91 | 167.15 | 70.08 | 25.39 | 908.81 | 165.05 | 67.98 | 29.59 | 913.01 | 169.25 | 72.18 | 852.3497 | 855.8184 | 848.9084 | 767460 | 773385.1 | 761605.5 | 2.05E-19 | 11779.66 | 5925.108 | 5854.548 | 767460 | 773385.1 | 761605.5 |
| 9 | 5E-23 | 4096 | 10 | 167.15 | 70.08 | 157.84 | 210.34 | 165.05 | 67.98 | 155.74 | 208.24 | 169.25 | 72.18 | 159.94 | 212.44 | 140.5686 | 136.7291 | 144.5504 | 60719.54 | 59654.84 | 61854.8 | 2.05E-19 | 2199.96 | 1064.7 | 1135.26 | 60719.54 | 59654.84 | 61854.8 |
| 10 | 5E-23 | 4096 | 10 | 157.84 | 210.34 | 212.67 | 350.93 | 155.74 | 208.24 | 210.57 | 348.83 | 159.94 | 212.44 | 214.77 | 353.03 | 150.9035 | 145.4841 | 156.3608 | 63731.88 | 62125.63 | 65408.69 | 2.05E-19 | 3283.056 | 1606.248 | 1676.808 | 63731.88 | 62125.63 | 65408.69 |
| 11 | 5E-23 | 4096 | 10 | 212.67 | 350.93 | 258.07 | 490.48 | 210.57 | 348.83 | 255.97 | 488.38 | 214.77 | 353.03 | 260.17 | 492.58 | 146.7493 | 141.4817 | 152.0665 | 62495.36 | 60977.06 | 64084.22 | 2.05E-19 | 3107.16 | 1518.3 | 1588.86 | 62495.36 | 60977.06 | 64084.22 |
| 12 | 5E-23 | 4096 | 10 | 258.07 | 490.48 | 158.96 | 630.07 | 255.97 | 488.38 | 156.86 | 627.97 | 260.17 | 492.58 | 161.06 | 632.17 | 171.1963 | 170.3039 | 172.2889 | 70268.16 | 69963.41 | 70643.47 | 2.05E-19 | 680.064 | 304.752 | 375.312 | 70268.16 | 69963.41 | 70643.47 |
| 13 | 5E-23 | 4096 | 10 | 158.96 | 630.07 | 227.42 | 770.61 | 156.86 | 627.97 | 225.32 | 768.51 | 161.06 | 632.17 | 229.52 | 772.71 | 156.3274 | 150.7247 | 161.9541 | 65398.26 | 63677.94 | 67189.14 | 2.05E-19 | 3511.2 | 1720.32 | 1790.88 | 65398.26 | 63677.94 | 67189.14 |
| 14 | 5E-23 | 4096 | 10 | 227.42 | 770.61 | 163.39 | 910.81 | 225.32 | 768.51 | 161.29 | 908.71 | 229.52 | 772.71 | 165.49 | 912.91 | 154.1294 | 152.1556 | 156.3042 | 64715.88 | 64111.33 | 65390.99 | 2.05E-19 | 1279.656 | 604.548 | 675.108 | 64715.88 | 64111.33 | 65390.99 |
| 15 | 5E-23 | 4096 | 10 | 163.39 | 910.81 | 317.27 | 70.54 | 161.29 | 908.71 | 315.17 | 68.44 | 165.49 | 912.91 | 319.37 | 72.64 | 854.244 | 857.6326 | 850.8833 | 770692.7 | 776493.7 | 764962.3 | 2.05E-19 | 11531.35 | 5800.956 | 5730.396 | 770692.7 | 776493.7 | 764962.3 |
| 16 | 5E-23 | 4096 | 10 | 317.27 | 70.54 | 307.23 | 210.24 | 315.17 | 68.44 | 305.13 | 208.14 | 319.37 | 72.64 | 309.33 | 212.34 | 140.0603 | 136.2462 | 144.0185 | 60576.89 | 59523.03 | 61701.32 | 2.05E-19 | 2178.288 | 1053.864 | 1124.424 | 60576.89 | 59523.03 | 61701.32 |
| 17 | 5E-23 | 4096 | 10 | 307.23 | 210.24 | 378.38 | 350.79 | 305.13 | 208.14 | 376.28 | 348.69 | 309.33 | 212.34 | 380.48 | 352.89 | 157.5329 | 151.9 | 163.1876 | 65776.63 | 64033.63 | 67590.19 | 2.05E-19 | 3556.56 | 1743 | 1813.56 | 65776.63 | 64033.63 | 67590.19 |
| 18 | 5E-23 | 4096 | 10 | 378.38 | 350.79 | 335.57 | 490.07 | 376.28 | 348.69 | 333.47 | 487.97 | 380.48 | 352.89 | 337.67 | 492.17 | 145.7107 | 143.0264 | 148.5841 | 62191.61 | 61416.55 | 63037.24 | 2.05E-19 | 1620.696 | 775.068 | 845.628 | 62191.61 | 61416.55 | 63037.24 |
| 19 | 5E-23 | 4096 | 10 | 335.57 | 490.07 | 310.3 | 630.11 | 333.47 | 487.97 | 308.2 | 628.01 | 337.67 | 492.17 | 312.4 | 632.21 | 142.3017 | 139 | 145.7708 | 61209.77 | 60280.99 | 62209.12 | 2.05E-19 | 1928.136 | 928.788 | 999.348 | 61209.77 | 60280.99 | 62209.12 |
| 20 | 5E-23 | 4096 | 10 | 310.3 | 630.11 | 362.42 | 770.96 | 308.2 | 628.01 | 360.32 | 768.86 | 312.4 | 632.21 | 364.52 | 773.06 | 150.1839 | 144.8087 | 155.6003 | 63515.22 | 61929.55 | 65171.44 | 2.05E-19 | 3241.896 | 1585.668 | 1656.228 | 63515.22 | 61929.55 | 65171.44 |
| 21 | 5E-23 | 4096 | 10 | 362.42 | 770.96 | 329.59 | 910.71 | 360.32 | 768.86 | 327.49 | 908.61 | 364.52 | 773.06 | 331.69 | 912.81 | 143.5544 | 140.517 | 146.7695 | 61567.87 | 60705.02 | 62501.28 | 2.05E-19 | 1796.256 | 862.848 | 933.408 | 61567.87 | 60705.02 | 62501.28 |
| 22 | 5E-23 | 4096 | 10 | 329.59 | 910.71 | 518.24 | 70.99 | 327.49 | 908.61 | 516.14 | 68.89 | 331.69 | 912.81 | 520.34 | 73.09 | 860.65 | 863.8419 | 857.4875 | 781678.5 | 787182.8 | 776244.8 | 2.05E-19 | 10937.98 | 5504.268 | 5433.708 | 781678.5 | 787182.8 | 776244.8 |
| 23 | 5E-23 | 4096 | 10 | 518.24 | 70.99 | 459.5 | 210.84 | 516.14 | 68.89 | 457.4 | 208.74 | 520.34 | 73.09 | 461.6 | 212.94 | 151.6852 | 149.5405 | 154.0293 | 63968.41 | 63322.37 | 64685.01 | 2.05E-19 | 1362.648 | 646.044 | 716.604 | 63968.41 | 63322.37 | 64685.01 |
| 24 | 5E-23 | 4096 | 10 | 459.5 | 210.84 | 458.86 | 350.34 | 457.4 | 208.74 | 456.76 | 348.24 | 461.6 | 212.94 | 460.96 | 352.44 | 139.5015 | 135.3865 | 143.7441 | 60420.66 | 59289.52 | 61622.36 | 2.05E-19 | 2332.848 | 1131.144 | 1201.704 | 60420.66 | 59289.52 | 61622.36 |
| 25 | 5E-23 | 4096 | 10 | 458.86 | 350.34 | 469.75 | 490.64 | 456.76 | 348.24 | 467.65 | 488.54 | 460.96 | 352.44 | 471.85 | 492.74 | 140.722 | 136.2643 | 145.2858 | 60762.68 | 59527.97 | 62067.96 | 2.05E-19 | 2539.992 | 1234.716 | 1305.276 | 60762.68 | 59527.97 | 62067.96 |
| 26 | 5E-23 | 4096 | 10 | 469.75 | 490.64 | 425.15 | 630.25 | 467.65 | 488.54 | 423.05 | 628.15 | 471.85 | 492.74 | 427.25 | 632.35 | 146.561 | 143.9351 | 149.377 | 62440.11 | 61677.31 | 63273.48 | 2.05E-19 | 1596.168 | 762.804 | 833.364 | 62440.11 | 61677.31 | 63273.48 |
| 27 | 5E-23 | 4096 | 10 | 425.15 | 630.25 | 470.46 | 770.09 | 423.05 | 628.15 | 468.36 | 767.99 | 427.25 | 632.35 | 472.56 | 772.19 | 146.9974 | 141.733 | 152.3114 | 62568.22 | 61048.24 | 64158.76 | 2.05E-19 | 3110.52 | 1519.98 | 1590.54 | 62568.22 | 61048.24 | 64158.76 |
| 28 | 5E-23 | 4096 | 10 | 470.46 | 770.09 | 544.17 | 910.82 | 468.36 | 767.99 | 542.07 | 908.72 | 472.56 | 772.19 | 546.27 | 912.92 | 158.865 | 153.206 | 164.5438 | 66198.1 | 64432.08 | 68034.67 | 2.05E-19 | 3602.592 | 1766.016 | 1836.576 | 66198.1 | 64432.08 | 68034.67 |
| 29 | 5E-23 | 4096 | 10 | 544.17 | 910.82 | 668.54 | 70.47 | 542.07 | 908.72 | 666.44 | 68.37 | 546.27 | 912.92 | 670.64 | 72.57 | 849.5034 | 853.0566 | 845.977 | 762616 | 768665.5 | 756637.1 | 2.05E-19 | 12028.46 | 6049.512 | 5978.952 | 762616 | 768665.5 | 756637.1 |
| 30 | 5E-23 | 4096 | 10 | 668.54 | 70.47 | 583.83 | 210.97 | 666.44 | 68.37 | 581.73 | 208.87 | 670.64 | 72.57 | 585.93 | 213.07 | 164.0611 | 162.735 | 165.5897 | 67876.03 | 67442.68 | 68379.95 | 2.05E-19 | 937.272 | 433.356 | 503.916 | 67876.03 | 67442.68 | 68379.95 |
| 31 | 5E-23 | 4096 | 10 | 583.83 | 210.97 | 654.86 | 350.62 | 581.73 | 208.87 | 652.76 | 348.52 | 585.93 | 213.07 | 656.96 | 352.72 | 156.676 | 151.0396 | 162.3341 | 65507.38 | 63772.95 | 67312.38 | 2.05E-19 | 3539.424 | 1734.432 | 1804.992 | 65507.38 | 63772.95 | 67312.38 |
| 32 | 5E-23 | 4096 | 10 | 654.86 | 350.62 | 586.04 | 490.94 | 652.76 | 348.52 | 583.94 | 488.84 | 656.96 | 352.72 | 588.14 | 493.04 | 156.2879 | 154.4687 | 158.3091 | 65385.89 | 64820.57 | 66021.77 | 2.05E-19 | 1201.2 | 565.32 | 635.88 | 65385.89 | 64820.57 | 66021.77 |
| 33 | 5E-23 | 4096 | 10 | 586.04 | 490.94 | 694.15 | 630.16 | 583.94 | 488.84 | 692.05 | 628.06 | 588.14 | 493.04 | 696.25 | 632.26 | 176.2668 | 170.3751 | 182.1616 | 72029.98 | 69987.69 | 74142.83 | 2.05E-19 | 4155.144 | 2042.292 | 2112.852 | 72029.98 | 69987.69 | 74142.83 |
| 34 | 5E-23 | 4096 | 10 | 694.15 | 630.16 | 580.61 | 770.62 | 692.05 | 628.06 | 578.51 | 768.52 | 696.25 | 632.26 | 582.71 | 772.72 | 180.611 | 180.0819 | 181.3333 | 73580.34 | 73389.5 | 73841.75 | 2.05E-19 | 452.256 | 190.848 | 261.408 | 73580.34 | 73389.5 | 73841.75 |
| 35 | 5E-23 | 4096 | 10 | 580.61 | 770.62 | 606.49 | 910.15 | 578.51 | 768.52 | 604.39 | 908.05 | 582.71 | 772.72 | 608.59 | 912.25 | 141.9098 | 137.0556 | 146.8439 | 61098.4 | 59744.23 | 62523.12 | 2.05E-19 | 2778.888 | 1354.164 | 1424.724 | 61098.4 | 59744.23 | 62523.12 |
| 36 | 5E-23 | 4096 | 10 | 606.49 | 910.15 | 769.52 | 70.39 | 604.39 | 908.05 | 767.42 | 68.29 | 608.59 | 912.25 | 771.62 | 72.49 | 855.4389 | 858.7756 | 852.1305 | 772735.6 | 778455.5 | 767086.4 | 2.05E-19 | 11369.06 | 5719.812 | 5649.252 | 772735.6 | 778455.5 | 767086.4 |
| 37 | 5E-23 | 4096 | 10 | 769.52 | 70.39 | 736.5 | 210.19 | 767.42 | 68.29 | 734.4 | 208.09 | 771.62 | 72.49 | 738.6 | 212.29 | 143.6467 | 140.6154 | 146.8557 | 61594.36 | 60732.69 | 62526.59 | 2.05E-19 | 1793.904 | 861.672 | 932.232 | 61594.36 | 60732.69 | 62526.59 |
| 38 | 5E-23 | 4096 | 10 | 736.5 | 210.19 | 830 | 350.66 | 734.4 | 208.09 | 827.9 | 348.56 | 738.6 | 212.29 | 832.1 | 352.76 | 168.7426 | 162.9233 | 174.57 | 69434.07 | 67504 | 71434.7 | 2.05E-19 | 3930.696 | 1930.068 | 2000.628 | 69434.07 | 67504 | 71434.7 |
| 39 | 5E-23 | 4096 | 10 | 830 | 350.66 | 828.03 | 490.66 | 827.9 | 348.56 | 825.93 | 488.56 | 832.1 | 352.76 | 830.13 | 492.76 | 140.0139 | 135.9401 | 144.2172 | 60563.88 | 59439.71 | 61758.61 | 2.05E-19 | 2318.904 | 1124.172 | 1194.732 | 60563.88 | 59439.71 | 61758.61 |
| 40 | 5E-23 | 4096 | 10 | 828.03 | 490.66 | 752.37 | 630.94 | 825.93 | 488.56 | 750.27 | 628.84 | 830.13 | 492.76 | 754.47 | 633.04 | 159.3829 | 157.7827 | 161.1862 | 66362.91 | 65855.39 | 66941 | 2.05E-19 | 1085.616 | 507.528 | 578.088 | 66362.91 | 65855.39 | 66941 |
| 41 | 5E-23 | 4096 | 10 | 752.37 | 630.94 | 735.61 | 770.56 | 750.27 | 628.84 | 733.51 | 768.46 | 754.47 | 633.04 | 737.71 | 772.66 | 140.6223 | 137.0325 | 144.3674 | 60734.64 | 59737.9 | 61801.95 | 2.05E-19 | 2064.048 | 996.744 | 1067.304 | 60734.64 | 59737.9 | 61801.95 |
| 42 | 5E-23 | 4096 | 10 | 735.61 | 770.56 | 746.6 | 910.1 | 733.51 | 768.46 | 744.5 | 908 | 737.71 | 772.66 | 748.7 | 912.2 | 139.9721 | 135.5102 | 144.5404 | 60552.19 | 59323.02 | 61851.92 | 2.05E-19 | 2528.904 | 1229.172 | 1299.732 | 60552.19 | 59323.02 | 61851.92 |
| 43 | 5E-23 | 4096 | 10 | 746.6 | 910.1 | 927.99 | 70.12 | 744.5 | 908 | 925.89 | 68.02 | 748.7 | 912.2 | 930.09 | 72.22 | 859.342 | 862.5753 | 856.1378 | 779428.7 | 784996.2 | 773931.9 | 2.05E-19 | 11064.31 | 5567.436 | 5496.876 | 779428.7 | 784996.2 | 773931.9 |
| 44 | 5E-23 | 4096 | 10 | 927.99 | 70.12 | 935.68 | 210.73 | 925.89 | 68.02 | 933.58 | 208.63 | 930.09 | 72.22 | 937.78 | 212.83 | 140.8201 | 136.4546 | 145.2973 | 60790.31 | 59579.87 | 62071.31 | 2.05E-19 | 2491.44 | 1210.44 | 1281 | 60790.31 | 59579.87 | 62071.31 |
| 45 | 5E-23 | 4096 | 10 | 935.68 | 210.73 | 863.36 | 350.09 | 933.58 | 208.63 | 861.26 | 347.99 | 937.78 | 212.83 | 865.46 | 352.19 | 157.0076 | 155.3175 | 158.9019 | 65611.39 | 65083.54 | 66209.81 | 2.05E-19 | 1126.272 | 527.856 | 598.416 | 65611.39 | 65083.54 | 66209.81 |
| 46 | 5E-23 | 4096 | 10 | 863.36 | 350.09 | 924.8 | 490.82 | 861.26 | 347.99 | 922.7 | 488.72 | 865.46 | 352.19 | 926.9 | 492.92 | 153.5572 | 148.0434 | 159.1016 | 64539.81 | 62876.86 | 66273.31 | 2.05E-19 | 3396.456 | 1662.948 | 1733.508 | 64539.81 | 62876.86 | 66273.31 |
| 47 | 5E-23 | 4096 | 10 | 924.8 | 490.82 | 905.96 | 630.52 | 922.7 | 488.72 | 903.86 | 628.42 | 926.9 | 492.92 | 908.06 | 632.62 | 140.9647 | 137.4449 | 144.6428 | 60831.04 | 59851.09 | 61881.54 | 2.05E-19 | 2030.448 | 979.944 | 1050.504 | 60831.04 | 59851.09 | 61881.54 |
| 48 | 5E-23 | 4096 | 10 | 905.96 | 630.52 | 885.39 | 770.86 | 903.86 | 628.42 | 883.29 | 768.76 | 908.06 | 632.62 | 887.49 | 772.96 | 141.8395 | 138.375 | 145.464 | 61078.44 | 60107.65 | 62119.79 | 2.05E-19 | 2012.136 | 970.788 | 1041.348 | 61078.44 | 60107.65 | 62119.79 |
| 49 | 5E-23 | 4096 | 10 | 885.39 | 770.86 | 939.51 | 910.93 | 883.29 | 768.76 | 937.41 | 908.83 | 887.49 | 772.96 | 941.61 | 913.03 | 150.1618 | 144.7503 | 155.6119 | 63508.58 | 61912.66 | 65175.06 | 2.05E-19 | 3262.392 | 1595.916 | 1666.476 | 63508.58 | 61912.66 | 65175.06 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 838600.7 | 412773.6 | 425827.2 |  |  |  |

Table 4:Spiral Calculations

**7. Conclusion**

The main aim of this paper is to prolong the lifetime of Wireless Sensor Network. To minimize the power consumption of a particular Wireless Sensor Network at first, we tried to minimize the traversal path to cover each and every cell of the particular path as well as the traversal path between sink node and cells. The minimizing technique that we have used is Ant Colony Optimizations. In this network configuration, we have used three methods of deployment of WSN nodes and we have compared the results of all three deployments. Comparing the number of days we can conclude that the square deployment can save more energy and hence increasing the lifetime of the network.

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