## Chamu\_5661-Project\_R\_model

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## Valuation of Caps using Black model and LIBOR/Monte Carlo

Caps and Floors are counterparts to Call and Put options in equity market used for hedging floating rate risk. They set the minimum return levels on one side of interest rate movement and allow the profit on the other side.

```
#These inputs can be modified  N \leftarrow 1000000 \qquad \qquad \# \ Notional \\ n\_sim \leftarrow 1000000 \qquad \qquad \# \ number \ of \ Monte \ carlo \ simulation \\ tau \leftarrow 0.5 \qquad \qquad \# \ frequency \ of \ cap/floor \ or \ \delta \\ sigma \leftarrow 0.15 \qquad \qquad \# \ volatility \\ K \leftarrow 0.05 \qquad \qquad \# \ strike \ rate \\ n \leftarrow 4 \qquad \qquad \# \ number \ of \ forwards \ excluding \ f\_0 \\ f \leftarrow 0.05 \qquad \qquad \# \ forward \ rate
```

A caplet is a call option on the zero-coupon yield prevailing at time ti –  $\delta$  for a period of length  $\delta$ , but where the payment takes place at time ti although it is already fixed at time ti -  $\delta$ 

Calculating **discount factor** used for both models

```
t <- seq(0, n * tau, tau)
forward <- matrix(NA, n + 1, n + 1)
forward[, 1] <- f

Discount <- function(tau, forward){
    discount <- 1 / (1 + tau * forward)
    discount[is.na(forward)] <- 1
    for (i in 2 : (n + 1)){
        discount[i, ] <- discount[i, ] * discount[i - 1, ]
    }
    discount[is.na(forward)] <- NA
    return(discount)
}

discount <- Discount(tau = tau, forward = forward)</pre>
```

**Black Model**: Assumptions are as below • Underlying forward rate or swap rate is log normally distributed • volatility of the underlying is constant • Prices are arbitrage free • There is continuous trading in all instruments

```
cap <- function(){
    v <- sigma * sqrt(t[2 : (n + 1)])
    d1 <- (log(forward[2 : (n + 1), 1] / K) + 1/2 * v ^ 2) / v
    d2 <- (log(forward[2 : (n + 1), 1] / K) - 1/2 * v ^ 2) / v

    cap <- N * discount[2 : (n + 1), 1] * tau *
        (forward[2 : (n + 1), 1] * pnorm(d1) - K * pnorm(d2))
}
Caplets <- cap()</pre>
```

## **LIBOR market model** using Monte Carlo method:

The basic idea behind a market model is to model interest rates directly observable in the market, which are the forward LIBOR rates in the case of the LIBOR market model (As opposed to instantaneous short rates in short rate models or instantaneous forward rates in the HJM framework, which are mathematical abstractions).

Similar to the Black-76 model the LIBOR market model assumes a log-normal process for each forward LIBOR rate under the Ti-forward measure.

```
# update Forward rate
MC <- function(){</pre>
  DW <- sqrt(tau) * qnorm(runif(n, 0, 1))
  LMMDrift <- function(forward, j){</pre>
    if (j \le n){
      temp <- sapply(j : n, function(k) sum(forward[k : n] / (1 + tau *</pre>
forward[k : n])))
      return(c(temp * tau * sigma ^ 2, 0))
    return(0)
  }
  for (j in 2 : (n + 1)){
    forward[j : (n + 1), j] <- forward[j : (n + 1), j - 1] *
      exp((-LMMDrift(forward = forward[, j - 1], j) - 1/2 * sigma ^ 2) * tau
+ sigma * DW[j - 1])
  }
# update the Discount factor
  discount <- Discount(tau = tau, forward = forward)</pre>
  MC_raw_payoff <- pmax(diag(forward) - K, 0)[2 : (n + 1)]</pre>
# change Numeraire
  Change <- function(){</pre>
    temp1 <- diag(discount)[2 : (n + 1)]</pre>
   temp2 <- discount[2 : (n +1), 1]
```

## **Comparison** of two models:

```
construct_table <- function(){
  table <- matrix(NA, n + 1, 3)
  colnames(table) <- c('MC', 'Black', 'ERROR')
  rownames(table) <- c(paste0('Caplet', 1 : n), 'Cap')

temp <- sapply(1 : n, function(i) mean(result[, n + i]))
  temp <- temp * tau * discount[2 : (n + 1), 1] * N
  table[1 : n, 1] <- temp
  table[1 : n, 2] <- Caplets
  table[n + 1, 1 : 2] <- colsums(table[1 : n, 1 : 2])
  table[, 3] <- (table[, 1] - table[, 2]) / table[, 2]
  return(table)
}
table <- construct_table()</pre>
```

In contrast to the Black model, LIBOR market model describes the dynamic of a whole family of **forward rates under a common measure**. By means of multivariate Girsanov's theorem one can switch between the different T-Forward measures.

Below is the comparison table and simulation results:

```
table
##
                 MC
                       Black
                                     ERROR
## Caplet1 1005.981 1006.410 -0.0004264097
## Caplet2 1396.836 1387.915 0.0064280760
## Caplet3 1673.632 1657.605 0.0096688033
## Caplet4 1878.164 1866.480 0.0062601937
## Cap
          5954.614 5918.410 0.0061171940
result
##
                   V1 RAW
                                V2 RAW
                                             V3 RAW
                                                          V4 RAW
                                                                      V1 CORR
##
        [1,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
        [2,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

```
##
        [3,] 4.195409e-03 9.932272e-03 1.505569e-02 1.081312e-02 4.221404e-03
##
        [4,] 1.783942e-03 0.000000e+00 0.000000e+00 9.104328e-03 1.788678e-03
        [5,] 5.331228e-03 3.560326e-03 1.432386e-03 0.000000e+00 5.373167e-03
##
##
        [6,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
        [7,] 5.499203e-03 9.949037e-03 2.129718e-02 7.584798e-03 5.543824e-03
##
        [8,] 2.880113e-03 5.524142e-03 0.000000e+00 0.000000e+00 2.892392e-03
##
        [9,] 5.099921e-03 1.112086e-02 2.984838e-03 0.000000e+00 5.138305e-03
##
       [10,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
       [11,] 0.000000e+00 3.360076e-03 0.000000e+00 0.000000e+00 0.000000e+00
       [12,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
       [13,] 3.436313e-03 4.997491e-04 2.019753e-03 0.000000e+00 3.453771e-03
##
##
       [14,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
       [15,] 5.555256e-03 0.000000e+00 5.760697e-03 3.762356e-03 5.600790e-03
##
##
       [16,] 4.954358e-03 3.113965e-03 0.000000e+00 0.000000e+00 4.990585e-03
##
       [17,] 0.000000e+00 1.412096e-03 4.207984e-04 2.062414e-03 0.000000e+00
##
       [18,] 5.731182e-03 2.325135e-03 1.393551e-02 1.079495e-02 5.779642e-03
##
       [19,] 8.034944e-03 1.765235e-02 1.867843e-02 1.419679e-02 8.130171e-03
##
       [20,] 0.000000e+00 0.000000e+00 5.972908e-04 0.000000e+00 0.000000e+00
       [21,] 0.000000e+00 1.018250e-03 1.179085e-02 1.575568e-02 0.000000e+00
##
##
       [22,] 3.742974e-03 1.267702e-02 8.681469e-03 0.000000e+00 3.763676e-03
##
       [23,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
       [24,] 0.000000e+00 7.839757e-03 1.051703e-02 8.486217e-03 0.000000e+00
##
       [25,] 3.507840e-03 0.000000e+00 0.000000e+00 7.026520e-03 3.526029e-03
##
       [26,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
       [27,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
       [28,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
       [29,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
       [30,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
       [31,] 2.516358e-03 0.000000e+00 2.598262e-03 0.000000e+00 2.525743e-03
##
       [32,] 1.283012e-02 1.680016e-02 1.294348e-02 9.260279e-03 1.307318e-02
##
       [33,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
       [34,] 0.000000e+00 0.000000e+00 5.452947e-03 0.000000e+00 0.000000e+00
##
       [35,] 5.537846e-03 6.692249e-03 6.259912e-03 7.492331e-03 5.583096e-03
##
       [36,] 6.702372e-03 1.024520e-02 2.087877e-03 8.395796e-03 6.768634e-03
##
       [37,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
       [38,] 0.000000e+00 2.371008e-03 1.284363e-03 1.004875e-02 0.000000e+00
##
##
       [39,] 1.147028e-03 2.145911e-03 7.089286e-05 5.612930e-03 1.149002e-03
##
       [40,] 1.769092e-03 1.410571e-03 3.356649e-04 0.000000e+00 1.773750e-03
##
       [41,] 0.000000e+00 0.000000e+00 0.000000e+00 4.009523e-03 0.000000e+00
##
       [42,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
       [43,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
       [44,] 0.000000e+00 1.392977e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
       [45,] 0.000000e+00 4.579371e-03 1.504379e-02 9.717359e-03 0.000000e+00
##
       [46,] 0.000000e+00 2.152733e-03 3.187400e-03 0.000000e+00 0.000000e+00
       [47,] 2.442628e-03 2.099774e-03 0.000000e+00 0.000000e+00 2.451473e-03
##
##
       [48,] 4.687168e-03 5.767147e-03 0.000000e+00 0.000000e+00 4.719599e-03
##
       [49,] 0.000000e+00 3.667813e-03 1.500654e-03 9.555332e-04 0.000000e+00
##
       [50,] 5.664603e-03 1.083048e-02 3.901976e-03 1.988563e-02 5.711945e-03
##
       [51,] 3.144833e-03 7.769502e-03 1.824794e-02 2.492448e-02 3.159463e-03
       [52,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
```

```
##
       [53,] 4.723398e-03 4.381569e-03 0.000000e+00 2.151753e-03 4.756332e-03
##
       [54,] 7.214161e-04 0.000000e+00 0.000000e+00 0.000000e+00 7.222074e-04
##
       [55,] 0.000000e+00 6.581214e-04 3.502344e-03 0.000000e+00 0.000000e+00
##
       [56,] 3.177748e-04 1.398818e-03 0.000000e+00 0.000000e+00 3.179355e-04
       [57,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
       [58,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
       [59,] 2.145899e-03 2.388351e-03 6.192234e-03 0.000000e+00 2.152735e-03
##
       [60,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
       [61,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
       [62,] 7.814097e-03 1.782134e-02 2.369016e-02 1.958762e-02 7.904160e-03
##
       [63,] 0.000000e+00 2.579406e-03 1.415925e-03 0.000000e+00 0.000000e+00
##
##
       [64,] 0.000000e+00 2.936474e-03 3.296330e-03 0.000000e+00 0.000000e+00
       [65,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
       [66,] 2.037643e-03 5.272399e-03 4.840792e-03 5.236525e-03 2.043811e-03
##
       [67,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
       [68,] 2.767053e-03 1.588508e-03 0.000000e+00 0.000000e+00 2.778391e-03
##
       [69,] 6.836094e-03 6.403492e-04 3.233935e-04 9.597728e-04 6.905025e-03
##
       [70,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
       [71,] 3.230859e-03 8.767267e-04 2.093266e-03 0.000000e+00 3.246297e-03
##
##
       [72,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
       [73,] 0.000000e+00 1.074707e-02 2.117419e-02 1.936688e-02 0.000000e+00
##
##
       [74,] 4.468579e-03 1.616442e-03 0.000000e+00 0.000000e+00 4.498061e-03
##
       [75,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
       [76,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
       [77,] 5.723183e-03 0.000000e+00 0.000000e+00 0.000000e+00 5.771509e-03
##
       [78,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
       [79,] 0.000000e+00 2.808764e-03 1.974977e-03 3.149031e-03 0.000000e+00
##
##
       [80,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
       [81,] 6.774815e-03 3.562644e-03 0.000000e+00 0.000000e+00 6.842517e-03
##
       [82,] 9.421180e-03 1.293464e-02 1.221925e-02 1.094576e-02 9.552122e-03
##
       [83,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
       [84,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
       [85,] 1.786180e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.790927e-03
##
##
       [86,] 1.721572e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.725984e-03
##
       [87,] 0.000000e+00 0.000000e+00 0.000000e+00 6.818014e-03 0.000000e+00
       [88,] 8.758470e-03 5.868089e-03 2.145561e-03 0.000000e+00 8.871627e-03
##
##
       [89,] 1.859886e-03 5.832807e-03 3.486489e-03 1.042910e-04 1.865031e-03
##
       [90,] 1.534033e-04 3.638759e-03 1.130342e-02 1.089244e-02 1.534439e-04
##
       [91,] 4.719906e-03 5.080446e-03 5.282226e-03 1.770042e-02 4.752791e-03
##
       [92,] 7.582108e-03 8.832923e-03 2.189835e-02 2.473848e-02 7.666902e-03
##
       [93,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
       [94,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
       [95,] 0.000000e+00 2.022395e-03 9.588619e-04 0.000000e+00 0.000000e+00
       [96,] 0.000000e+00 0.000000e+00 0.000000e+00 5.721160e-04 0.000000e+00
##
       [97,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
       [98,] 1.506037e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.509421e-03
##
       [99,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
      [100,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
      [101,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
      [102,] 0.000000e+00 0.000000e+00 0.000000e+00 8.684728e-04 0.000000e+00
```

```
##
      [103,] 0.000000e+00 0.000000e+00 0.000000e+00 1.617326e-03 0.000000e+00
##
      [104,] 1.873126e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.878343e-03
##
      [105,] 4.971501e-03 4.692183e-03 2.998131e-03 0.000000e+00 5.007979e-03
##
      [106,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
      [107,] 1.968665e-03 5.032878e-03 7.645753e-03 4.684410e-03 1.974424e-03
##
      [108,] 0.000000e+00 4.391283e-03 1.106043e-02 1.286916e-02 0.000000e+00
##
      [109,] 0.000000e+00 6.324646e-03 1.288444e-02 1.626127e-02 0.000000e+00
##
      [110,] 2.145109e-02 1.555993e-02 1.362744e-02 1.407763e-02 2.213281e-02
##
      [111,] 9.500195e-04 4.072110e-03 0.000000e+00 0.000000e+00 9.513799e-04
      [112,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
      [113,] 0.000000e+00 0.000000e+00 3.233654e-03 7.134254e-03 0.000000e+00
##
      [114,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
      [115,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
      [116,] 0.000000e+00 3.543680e-03 8.008941e-03 5.882167e-03 0.000000e+00
      [117,] 5.019967e-05 1.697117e-03 1.141607e-02 1.070925e-02 5.020537e-05
##
##
      [118,] 9.060752e-04 0.000000e+00 1.274131e-03 3.875619e-03 9.073142e-04
##
      [119,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
      [120,] 1.316068e-02 1.197718e-02 1.042848e-02 0.000000e+00 1.341646e-02
##
      [121,] 0.000000e+00 4.419516e-03 9.917269e-03 9.106678e-03 0.000000e+00
##
      [122,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
      [123,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
      [124,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
      [125,] 5.534703e-04 0.000000e+00 0.000000e+00 0.000000e+00 5.539412e-04
##
      [126,] 6.836078e-03 0.000000e+00 0.000000e+00 0.000000e+00 6.905009e-03
      [127,] 5.774646e-03 1.583228e-02 1.567838e-02 2.149983e-02 5.823844e-03
##
##
      [128,] 4.952468e-03 5.896357e-03 1.198296e-03 0.000000e+00 4.988668e-03
      [129,] 2.052757e-03 1.426783e-02 2.771923e-02 2.527165e-02 2.059016e-03
##
##
      [130,] 0.000000e+00 5.844447e-03 1.943949e-03 6.576556e-03 0.000000e+00
##
      [131,] 4.677387e-03 1.918921e-03 0.000000e+00 4.622148e-03 4.709683e-03
##
      [132,] 8.863514e-03 6.952200e-03 1.251179e-02 1.076953e-02 8.979403e-03
##
      [133,] 1.690351e-03 0.000000e+00 0.000000e+00 4.024537e-03 1.694606e-03
##
      [134,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
      [135,] 1.872436e-03 9.031339e-04 0.000000e+00 0.000000e+00 1.877650e-03
##
      [136,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
      [137,] 0.000000e+00 0.000000e+00 6.000840e-03 0.000000e+00 0.000000e+00
##
      [138,] 1.448057e-03 0.000000e+00 9.286537e-03 1.306937e-02 1.451187e-03
##
      [139,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
      [140,] 1.116497e-03 1.340424e-03 7.971179e-03 7.004577e-03 1.118368e-03
##
      [141,] 2.076412e-04 7.444106e-04 5.421129e-03 5.838204e-03 2.077127e-04
##
      [142,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
      [143,] 5.576378e-03 0.000000e+00 0.000000e+00 6.274092e-04 5.622259e-03
##
      [144,] 2.282090e-03 3.336142e-03 3.070186e-03 1.836219e-03 2.289816e-03
##
      [145,] 3.598738e-03 3.945450e-03 5.832513e-03 1.367383e-02 3.617880e-03
      [146,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
      [147,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
      [148,] 0.000000e+00 0.000000e+00 2.753852e-03 0.000000e+00 0.000000e+00
##
      [149,] 0.000000e+00 4.068517e-03 1.456686e-02 1.355095e-02 0.000000e+00
##
      [150,] 5.806199e-03 1.321149e-02 2.124419e-02 9.224532e-03 5.855935e-03
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```

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##
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##
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##
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##
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##
##
     [1072,] 2.101250e-03 2.851263e-03 0.000000e+00 0.000000e+00 2.107806e-03
     [1073,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1074,] 2.586516e-04 0.000000e+00 0.000000e+00 0.000000e+00 2.587600e-04
##
##
     [1075,] 1.996361e-03 1.299569e-03 0.000000e+00 0.000000e+00 2.002283e-03
##
     [1076,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1077,] 6.485820e-04 2.100790e-03 0.000000e+00 0.000000e+00 6.492242e-04
##
     [1078,] 0.000000e+00 0.000000e+00 3.863587e-03 1.202164e-02 0.000000e+00
##
     [1079,] 9.058214e-03 8.765712e-03 0.000000e+00 0.000000e+00 9.179254e-03
##
     [1080,] 0.000000e+00 0.000000e+00 8.016865e-03 5.943419e-03 0.000000e+00
##
     [1081,] 1.056704e-02 5.894974e-03 0.000000e+00 1.186847e-03 1.073181e-02
     [1082,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1083,] 4.194533e-03 0.000000e+00 8.964216e-03 8.494308e-03 4.220517e-03
     [1084,] 1.154555e-02 9.045337e-03 6.363088e-04 0.000000e+00 1.174230e-02
##
##
     [1085,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1086,] 1.236793e-02 1.484734e-02 2.405086e-02 2.263430e-02 1.259377e-02
##
##
     [1087,] 8.936851e-04 0.000000e+00 0.000000e+00 0.000000e+00 8.948910e-04
     [1088,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1089,] 0.000000e+00 4.726573e-03 2.518330e-02 3.632109e-02 0.000000e+00
##
##
     [1090,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1091,] 0.000000e+00 0.000000e+00 5.880696e-03 0.000000e+00 0.000000e+00
##
     [1092,] 5.825951e-03 8.918121e-03 1.240671e-02 1.778973e-02 5.876025e-03
     [1093,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1094,] 0.000000e+00 0.000000e+00 0.000000e+00 4.419056e-03 0.000000e+00
##
##
     [1095,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1096,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1097,] 1.370369e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.373176e-03
##
     [1098,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1099,] 0.000000e+00 0.000000e+00 6.124491e-03 3.272206e-04 0.000000e+00
##
     [1100,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1101,] 3.428371e-03 3.538007e-03 4.227915e-03 1.017157e-02 3.445748e-03
##
##
     [1102,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
     [1103,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1104,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1105,] 3.800931e-03 1.752895e-02 2.473656e-02 2.194102e-02 3.822277e-03
##
##
     [1106,] 2.503995e-03 0.000000e+00 8.794320e-03 1.088789e-02 2.513288e-03
     [1107,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1108,] 2.875552e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.887792e-03
     [1109,] 7.179361e-03 4.053138e-03 7.943649e-04 0.000000e+00 7.255387e-03
##
##
     [1110,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1111,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1112,] 0.000000e+00 2.436968e-03 1.457247e-03 5.283908e-04 0.000000e+00
##
     [1113,] 4.383936e-03 1.879998e-02 9.565668e-03 1.500276e-02 4.412314e-03
##
##
     [1114,] 1.425633e-03 0.000000e+00 3.992903e-03 0.000000e+00 1.428668e-03
     [1115,] 4.207279e-03 5.272148e-03 9.928863e-03 6.319341e-03 4.233420e-03
##
##
     [1116,] 0.000000e+00 1.963974e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1117,] 5.769535e-03 7.036164e-03 2.018163e-02 3.222406e-02 5.818646e-03
##
     [1118,] 1.563689e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.567335e-03
##
     [1119,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1120,] 0.000000e+00 0.000000e+00 1.682452e-03 6.720138e-03 0.000000e+00
     [1121,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1122,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1123,] 6.669966e-04 1.444391e-03 6.738738e-03 2.663911e-03 6.676750e-04
##
     [1124,] 1.037470e-03 0.000000e+00 3.100246e-04 9.908390e-03 1.039088e-03
##
##
     [1125,] 3.850521e-03 1.009584e-02 4.847953e-03 0.000000e+00 3.872427e-03
##
     [1126,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1127,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1128,] 2.574472e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.584292e-03
     [1129,] 6.949876e-04 0.000000e+00 8.260192e-03 4.852547e-03 6.957230e-04
##
##
     [1130,] 1.025169e-02 1.228554e-02 3.617101e-03 0.000000e+00 1.040676e-02
##
     [1131,] 2.317158e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.325122e-03
     [1132,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1133,] 0.000000e+00 2.659511e-03 7.191701e-03 2.708796e-02 0.000000e+00
     [1134,] 0.000000e+00 0.000000e+00 7.933225e-03 5.354466e-03 0.000000e+00
##
##
     [1135,] 0.000000e+00 3.278220e-03 0.000000e+00 0.000000e+00 0.000000e+00
     [1136,] 1.333841e-02 1.640555e-02 2.078696e-02 2.302274e-02 1.360116e-02
##
##
     [1137,] 5.893227e-03 2.223705e-03 0.000000e+00 2.336806e-03 5.944464e-03
     [1138,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1139,] 2.143839e-03 1.039667e-03 4.526627e-03 4.337403e-03 2.150662e-03
##
##
     [1140,] 2.093988e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.100499e-03
##
     [1141,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1142,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1143,] 0.000000e+00 0.000000e+00 0.000000e+00 6.699369e-04 0.000000e+00
##
     [1144,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1145,] 0.000000e+00 4.843641e-03 5.184467e-03 5.419547e-03 0.000000e+00
##
     [1146,] 1.110957e-02 1.076543e-02 8.675585e-03 9.288030e-03 1.129172e-02
##
     [1147,] 1.057920e-03 2.717591e-03 0.000000e+00 0.000000e+00 1.059602e-03
##
     [1148,] 4.165309e-03 2.110163e-03 0.000000e+00 0.000000e+00 4.190933e-03
##
     [1149,] 0.000000e+00 5.660702e-04 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1150,] 7.472091e-03 4.509947e-03 0.000000e+00 0.000000e+00 7.554443e-03
##
     [1151,] 2.433475e-03 1.147588e-02 5.097009e-03 6.296706e-03 2.442254e-03
##
     [1152,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
     [1153,] 2.498372e-03 2.028910e-03 3.560737e-04 0.000000e+00 2.507624e-03
##
     [1154,] 6.525633e-03 4.389144e-03 6.079517e-03 5.974696e-03 6.588448e-03
     [1155,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1156,] 6.843578e-03 0.000000e+00 4.055358e-03 1.598358e-02 6.912660e-03
     [1157,] 0.000000e+00 0.000000e+00 5.655611e-03 9.091309e-03 0.000000e+00
##
##
     [1158,] 7.196289e-03 8.672735e-03 8.563352e-03 5.509089e-03 7.272674e-03
##
     [1159,] 0.000000e+00 0.000000e+00 7.051938e-03 1.405931e-02 0.000000e+00
##
     [1160,] 9.311556e-03 1.346787e-02 1.568113e-02 1.240117e-02 9.439467e-03
     [1161,] 0.000000e+00 1.736846e-05 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1162,] 8.115789e-04 0.000000e+00 5.379890e-04 1.572622e-02 8.125763e-04
##
##
     [1163,] 1.359122e-02 2.166676e-02 1.401167e-02 1.077870e-02 1.386404e-02
##
     [1164,] 6.129063e-03 7.345632e-03 2.141992e-02 2.437350e-02 6.184479e-03
     [1165,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1166,] 6.415803e-03 1.276273e-02 2.065858e-02 2.707379e-02 6.476522e-03
##
     [1167,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1168,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1169,] 1.979823e-02 1.737333e-02 1.858798e-02 2.254487e-02 2.037853e-02
##
     [1170,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1171,] 1.078811e-02 1.379816e-02 5.447217e-03 4.973101e-03 1.095986e-02
##
##
     [1172,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1173,] 0.000000e+00 0.000000e+00 1.404678e-03 7.179480e-04 0.000000e+00
##
##
     [1174,] 1.814875e-03 3.799692e-03 8.852084e-03 2.164012e-02 1.819775e-03
##
     [1175,] 0.000000e+00 7.766939e-03 1.016507e-02 6.716082e-03 0.000000e+00
##
     [1176,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1177,] 2.143332e-03 4.733653e-03 0.000000e+00 0.000000e+00 2.150152e-03
##
     [1178,] 7.631624e-03 1.972637e-02 1.859659e-02 2.654802e-02 7.717529e-03
##
     [1179,] 6.937988e-04 6.380088e-03 1.054706e-02 7.856228e-03 6.945317e-04
##
     [1180,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1181,] 2.290871e-03 3.502236e-03 0.000000e+00 0.000000e+00 2.298656e-03
     [1182,] 0.000000e+00 1.550104e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1183,] 1.836081e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.841096e-03
     [1184,] 9.412031e-04 1.760434e-03 1.675097e-03 0.000000e+00 9.425387e-04
##
##
     [1185,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1186,] 0.000000e+00 1.495626e-03 0.000000e+00 4.843595e-03 0.000000e+00
##
##
     [1187,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1188,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1189,] 3.429327e-03 1.108187e-02 1.859589e-02 1.858117e-02 3.446714e-03
##
     [1190,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1191,] 1.184435e-02 4.571387e-03 0.000000e+00 3.952013e-03 1.205143e-02
##
     [1192,] 0.000000e+00 6.078517e-03 6.064062e-03 2.281628e-02 0.000000e+00
     [1193,] 4.307808e-03 1.995868e-03 0.000000e+00 2.080258e-03 4.335210e-03
##
     [1194,] 1.579504e-02 2.203927e-02 1.785375e-02 2.128696e-02 1.616381e-02
##
##
     [1195,] 5.353528e-03 9.125469e-03 7.085632e-03 3.013074e-03 5.395819e-03
     [1196,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1197,] 6.312371e-03 9.159561e-03 1.796767e-02 4.238339e-02 6.371149e-03
##
     [1198,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1199,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1200,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1201,] 0.000000e+00 0.000000e+00 1.048543e-02 5.194325e-03 0.000000e+00
##
##
     [1202,] 6.009856e-03 2.211399e-02 2.000862e-02 2.432944e-02 6.063139e-03
```

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##
     [1203,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1204,] 7.192164e-03 8.319315e-03 1.429725e-02 1.237095e-02 7.268461e-03
##
     [1205,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1206,] 0.000000e+00 2.459018e-03 9.115606e-03 8.276917e-03 0.000000e+00
     [1207,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1208,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1209,] 2.984580e-03 5.818697e-03 0.000000e+00 6.093162e-03 2.997762e-03
##
##
     [1210,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1211,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1212,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1213,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1214,] 4.595590e-03 6.966357e-03 6.086765e-03 5.260528e-03 4.626768e-03
     [1215,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1216,] 8.098576e-04 1.528204e-02 2.045585e-02 3.136795e-02 8.108509e-04
##
     [1217,] 3.311961e-04 1.011885e-02 7.476434e-03 1.100678e-02 3.313700e-04
     [1218,] 2.387278e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.395729e-03
##
##
     [1219,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1220,] 0.000000e+00 0.000000e+00 0.000000e+00 2.221701e-03 0.000000e+00
     [1221,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1222,] 0.000000e+00 0.000000e+00 0.000000e+00 3.203766e-03 0.000000e+00
##
     [1223,] 0.000000e+00 2.499062e-03 4.721096e-03 0.000000e+00 0.000000e+00
     [1224,] 6.724451e-03 1.056164e-02 0.000000e+00 4.283829e-04 6.791150e-03
##
##
     [1225,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1226,] 8.917493e-04 1.133977e-03 1.068904e-02 4.033453e-03 8.929501e-04
##
     [1227,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1228,] 2.740524e-03 0.000000e+00 9.423702e-03 2.207596e-03 2.751646e-03
##
     [1229,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1230,] 0.000000e+00 8.459474e-04 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1231,] 0.000000e+00 0.000000e+00 0.000000e+00 2.297163e-03 0.000000e+00
     [1232,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1233,] 1.096616e-02 1.484165e-02 1.912024e-02 2.516479e-02 1.114363e-02
##
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##
     [1235,] 3.373795e-03 9.120314e-03 3.819589e-03 7.667002e-03 3.390625e-03
##
     [1236,] 0.000000e+00 3.422530e-04 3.732222e-03 0.000000e+00 0.000000e+00
##
     [1237,] 3.015781e-03 0.000000e+00 0.000000e+00 0.000000e+00 3.029239e-03
     [1238,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1239,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1240,] 4.229739e-03 0.000000e+00 0.000000e+00 0.000000e+00 4.256159e-03
##
     [1241,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1242,] 8.128931e-03 9.270383e-03 8.961498e-03 6.947461e-03 8.226400e-03
     [1243,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1244,] 8.600342e-03 9.175028e-03 7.722617e-03 3.691231e-03 8.709448e-03
##
##
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     [1246,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1247,] 4.301873e-03 7.694964e-03 3.017349e-03 0.000000e+00 4.329201e-03
##
     [1248,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1249,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1250,] 1.536881e-02 2.523584e-02 3.005708e-02 4.201507e-02 1.571788e-02
     [1251,] 8.434311e-03 0.000000e+00 1.151962e-02 2.894038e-02 8.539243e-03
##
##
     [1252,] 0.000000e+00 3.982782e-03 1.225434e-02 9.049392e-03 0.000000e+00
```

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##
     [1253,] 0.000000e+00 6.938687e-03 4.553863e-03 0.000000e+00 0.000000e+00
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##
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##
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##
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##
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##
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##
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##
##
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##
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##
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##
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##
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##
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##
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##
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     [1438,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1439,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1440,] 0.000000e+00 0.000000e+00 0.000000e+00 4.840787e-03 0.000000e+00
##
     [1441,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1442,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1443,] 6.388981e-03 6.154479e-03 6.050509e-03 2.483107e-03 6.449194e-03
##
##
     [1444,] 0.000000e+00 7.231204e-04 4.995350e-03 0.000000e+00 0.000000e+00
     [1445,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1446,] 4.839152e-03 1.446872e-02 1.517507e-02 1.619422e-02 4.873717e-03
##
##
     [1447,] 8.480118e-03 1.577774e-02 9.201832e-03 1.151946e-02 8.586193e-03
##
     [1448,] 3.341252e-03 3.140101e-04 7.755368e-03 1.456116e-02 3.357760e-03
##
     [1449,] 9.709099e-03 1.055784e-02 1.175124e-02 1.347640e-02 9.848174e-03
##
     [1450,] 0.000000e+00 4.366928e-03 0.000000e+00 0.000000e+00 0.000000e+00
     [1451,] 6.775631e-04 0.000000e+00 9.787664e-04 0.000000e+00 6.782628e-04
##
##
     [1452,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
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     [1454,] 1.016027e-02 1.126335e-02 2.552123e-02 3.904540e-02 1.031259e-02
##
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##
##
     [1456,] 4.885794e-03 2.053487e-03 0.000000e+00 0.000000e+00 4.921027e-03
     [1457,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1458,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1459,] 8.146248e-03 7.000831e-03 1.014761e-02 1.072462e-02 8.244132e-03
##
##
     [1460,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1461,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1462,] 1.555990e-02 2.270519e-02 3.090782e-02 1.356111e-02 1.591773e-02
##
     [1463,] 4.628983e-03 0.000000e+00 0.000000e+00 3.926188e-03 4.660615e-03
##
##
     [1464,] 0.000000e+00 0.000000e+00 0.000000e+00 2.329990e-05 0.000000e+00
     [1465,] 3.922839e-03 5.843958e-03 8.544967e-03 2.123287e-02 3.945573e-03
##
##
     [1466,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [1468,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [1470,] 2.558942e-03 1.400302e-02 7.708755e-03 1.810409e-02 2.568645e-03
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     [1473,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1474,] 0.000000e+00 2.746630e-04 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1475,] 0.000000e+00 1.102999e-04 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
##
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##
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##
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##
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##
##
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     [1493,] 1.277298e-03 3.280326e-03 1.027654e-02 8.097082e-03 1.279739e-03
##
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##
##
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##
##
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##
     [1500,] 2.104017e-03 1.227609e-03 0.000000e+00 2.059305e-03 2.110590e-03
##
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     [1502,] 0.000000e+00 1.105783e-02 2.494912e-02 3.253856e-02 0.000000e+00
##
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##
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##
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##
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     [1507,] 7.068772e-03 5.098213e-03 7.369315e-03 5.569068e-03 7.142474e-03
##
##
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     [1509,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [1511,] 1.343528e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.346226e-03
##
     [1512,] 8.988706e-05 0.000000e+00 0.000000e+00 0.000000e+00 8.990250e-05
##
     [1513,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [1515,] 0.000000e+00 0.000000e+00 0.000000e+00 4.605378e-03 0.000000e+00
##
##
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##
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##
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##
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##
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     [1521,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [1523,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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##
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##
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##
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##
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##
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     [1532,] 0.000000e+00 0.000000e+00 0.000000e+00 5.925552e-03 0.000000e+00
##
##
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##
##
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##
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##
##
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##
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##
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##
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##
##
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##
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##
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##
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##
##
     [1552,] 0.000000e+00 1.487823e-03 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
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##
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##
##
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##
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     [1559,] 0.000000e+00 0.000000e+00 7.823462e-03 2.221070e-02 0.000000e+00
##
##
     [1560,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [1562,] 0.000000e+00 2.214596e-03 5.539353e-03 0.000000e+00 0.000000e+00
##
     [1563,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1564,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1565,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [1571,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1572,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [1574,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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##
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##
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     [1584,] 1.348359e-02 1.224035e-02 7.596363e-03 0.000000e+00 1.375210e-02
##
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##
##
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##
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     [1588,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
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##
##
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##
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##
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     [1601,] 1.433962e-02 1.225760e-02 6.941258e-03 7.021604e-03 1.464340e-02
##
##
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```

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##
     [1603,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [1605,] 9.487580e-03 3.705916e-03 0.000000e+00 0.000000e+00 9.620377e-03
##
##
     [1606,] 0.000000e+00 6.190259e-03 4.886715e-03 0.000000e+00 0.000000e+00
##
     [1607,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [1611,] 0.000000e+00 1.789756e-04 2.251711e-03 1.581552e-02 0.000000e+00
##
##
     [1612,] 2.194802e-03 3.442348e-03 0.000000e+00 7.342829e-03 2.201951e-03
     [1613,] 0.000000e+00 2.361338e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
##
     [1616,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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     [1630,] 1.044915e-03 1.412780e-02 2.439498e-02 3.370836e-02 1.046557e-03
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##
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##
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##
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##
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     [1715,] 0.000000e+00 0.000000e+00 2.782078e-04 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
##
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##
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##
     [1752,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
     [1800,] 0.000000e+00 0.000000e+00 3.123435e-03 1.124011e-03 0.000000e+00
##
     [1801,] 2.504225e-04 0.000000e+00 0.000000e+00 0.000000e+00 2.505244e-04
##
     [1802,] 0.000000e+00 1.543824e-03 4.756143e-03 0.000000e+00 0.000000e+00
```

```
##
     [1803,] 1.283307e-02 1.262182e-02 1.630466e-02 3.337099e-02 1.307624e-02
##
     [1804,] 1.014446e-02 1.285711e-02 1.063570e-02 9.876910e-03 1.029630e-02
     [1805,] 3.324709e-03 0.000000e+00 4.180133e-04 0.000000e+00 3.341054e-03
##
     [1806,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1807,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1808,] 0.000000e+00 2.683046e-03 0.000000e+00 0.000000e+00 0.000000e+00
     [1809,] 0.000000e+00 1.879947e-03 8.501352e-03 7.516764e-03 0.000000e+00
##
##
     [1810,] 0.000000e+00 0.000000e+00 8.050964e-03 1.820541e-02 0.000000e+00
     [1811,] 4.810767e-03 4.767323e-03 0.000000e+00 0.000000e+00 4.844928e-03
##
     [1812,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1813,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1814,] 1.555447e-03 5.833555e-03 7.332933e-03 4.687078e-03 1.559055e-03
     [1815,] 1.218855e-03 0.000000e+00 1.712067e-03 0.000000e+00 1.221081e-03
##
##
     [1816,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1817,] 0.000000e+00 8.857626e-03 8.746256e-03 1.370733e-02 0.000000e+00
##
     [1818,] 1.470206e-03 9.395162e-03 9.849072e-03 8.819173e-03 1.473432e-03
##
     [1819,] 3.930436e-03 3.746925e-03 0.000000e+00 0.000000e+00 3.953258e-03
##
     [1820,] 0.000000e+00 7.123470e-03 1.116523e-02 1.761214e-02 0.000000e+00
     [1821,] 0.000000e+00 0.000000e+00 0.000000e+00 3.621379e-03 0.000000e+00
##
##
     [1822,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1823,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
     [1825,] 3.927844e-03 5.232838e-03 8.529027e-03 1.150296e-02 3.950635e-03
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     [1828,] 6.930055e-03 3.614835e-03 2.337238e-03 0.000000e+00 7.000893e-03
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##
##
     [1830,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [1832,] 7.062010e-04 1.656887e-03 3.627798e-03 1.097809e-02 7.069598e-04
##
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     [1833,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1834,] 3.559496e-03 5.129356e-03 6.368483e-03 1.316943e-02 3.578223e-03
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##
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##
     [1837,] 5.967313e-03 3.714396e-03 2.369164e-04 1.321910e-03 6.019845e-03
     [1838,] 1.178370e-03 0.000000e+00 6.561731e-03 1.115994e-02 1.180452e-03
##
##
     [1839,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1840,] 0.000000e+00 4.305860e-05 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1841,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1842,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1843,] 1.860631e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.865780e-03
##
     [1844,] 0.000000e+00 0.000000e+00 0.000000e+00 3.152691e-03 0.000000e+00
##
##
     [1845,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
     [1847,] 0.000000e+00 9.530722e-03 1.235653e-02 1.133580e-02 0.000000e+00
##
     [1848,] 0.000000e+00 7.304857e-03 7.500648e-03 5.866953e-03 0.000000e+00
     [1849,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1850,] 4.657773e-03 1.134369e-02 1.094981e-02 7.220584e-03 4.689799e-03
##
     [1851,] 2.940916e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.953717e-03
##
     [1852,] 5.633174e-03 1.687974e-03 1.718867e-03 1.039897e-03 5.679993e-03
```

```
##
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##
     [1854,] 0.000000e+00 0.000000e+00 6.518884e-03 1.065248e-02 0.000000e+00
     [1855,] 4.442029e-03 2.715024e-03 0.000000e+00 0.000000e+00 4.471162e-03
##
##
     [1856,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1857,] 0.000000e+00 1.542932e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1858,] 3.219245e-03 2.043380e-03 1.645250e-03 5.354268e-03 3.234573e-03
##
     [1859,] 0.000000e+00 5.812740e-03 1.551594e-02 7.950201e-03 0.000000e+00
##
     [1860,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1861,] 1.556186e-02 1.320637e-02 1.013241e-02 2.271842e-02 1.591979e-02
##
##
     [1862,] 2.553195e-03 2.701769e-03 0.000000e+00 0.000000e+00 2.562854e-03
     [1863,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1864,] 3.720099e-03 0.000000e+00 7.242300e-03 4.477205e-03 3.740549e-03
     [1865,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1866,] 5.963907e-03 0.000000e+00 8.191765e-04 2.090619e-03 6.016379e-03
##
     [1867,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1868,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [1870,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1871,] 0.000000e+00 1.597783e-04 4.645900e-04 4.972827e-03 0.000000e+00
##
##
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     [1873,] 5.401585e-03 5.921967e-03 1.267837e-02 1.905484e-02 5.444637e-03
##
     [1874,] 3.991625e-03 7.440896e-04 4.029655e-03 0.000000e+00 4.015161e-03
##
##
     [1875,] 2.137864e-03 5.054197e-03 6.013664e-03 2.762981e-03 2.144649e-03
     [1876,] 1.186646e-03 1.719344e-03 5.950761e-03 5.081312e-03 1.188757e-03
##
##
     [1877,] 0.000000e+00 0.000000e+00 0.000000e+00 3.687357e-03 0.000000e+00
##
     [1878,] 1.587638e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.591396e-03
     [1879,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1880,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
     [1883,] 6.834867e-03 3.723017e-03 6.257580e-03 8.259434e-03 6.903774e-03
     [1884,] 0.000000e+00 0.000000e+00 0.000000e+00 4.834990e-03 0.000000e+00
##
##
     [1885,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1886,] 0.000000e+00 0.000000e+00 8.002857e-03 1.047775e-02 0.000000e+00
##
##
     [1887,] 0.000000e+00 0.000000e+00 0.000000e+00 2.755389e-03 0.000000e+00
     [1888,] 0.000000e+00 1.792169e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
     [1891,] 6.260341e-03 6.058878e-03 0.000000e+00 0.000000e+00 6.318155e-03
##
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     [1893,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
     [1895,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
     [1897,] 6.566358e-04 1.793148e-03 3.898609e-03 3.822268e-03 6.572937e-04
##
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##
     [1899,] 6.817590e-03 3.052235e-03 6.449114e-03 1.021341e-02 6.886149e-03
##
     [1900,] 4.052731e-03 6.629950e-03 5.659484e-03 0.000000e+00 4.076992e-03
     [1901,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1902,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
     [1903,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1904,] 1.997711e-02 3.204641e-02 2.773421e-02 4.004731e-02 2.056800e-02
##
     [1905,] 6.571749e-03 1.130199e-02 1.181193e-02 1.189198e-02 6.635454e-03
##
##
     [1906,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1907,] 1.430017e-03 0.000000e+00 0.000000e+00 7.416234e-03 1.433070e-03
##
##
     [1908,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1909,] 4.109912e-03 0.000000e+00 0.000000e+00 0.000000e+00 4.134860e-03
##
##
     [1910,] 0.000000e+00 1.028403e-03 1.392440e-02 7.113175e-03 0.000000e+00
     [1911,] 4.517533e-03 6.446513e-03 7.193978e-03 6.843546e-03 4.547663e-03
##
     [1912,] 0.000000e+00 0.000000e+00 0.000000e+00 1.635342e-03 0.000000e+00
##
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##
##
     [1914,] 8.632124e-03 1.719520e-02 2.137573e-02 1.568809e-02 8.742038e-03
     [1915,] 5.984592e-03 2.808157e-03 6.730499e-03 0.000000e+00 6.037428e-03
##
##
     [1916,] 8.035545e-04 6.576215e-03 7.724457e-03 8.086151e-03 8.045326e-04
##
     [1917,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1918,] 1.662158e-03 0.000000e+00 7.391879e-03 2.696836e-03 1.666274e-03
##
     [1919,] 2.163903e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.170853e-03
##
     [1920,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1921,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1922,] 0.000000e+00 5.038228e-03 4.560925e-03 8.775383e-03 0.000000e+00
     [1923,] 0.000000e+00 0.000000e+00 9.882209e-04 8.789451e-03 0.000000e+00
##
     [1924,] 1.593029e-03 4.806290e-03 8.982352e-03 8.883335e-03 1.596812e-03
##
##
     [1925,] 4.499026e-04 0.000000e+00 0.000000e+00 0.000000e+00 4.502171e-04
##
     [1926,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1927,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1928,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1929,] 2.408376e-03 2.601519e-03 0.000000e+00 0.000000e+00 2.416976e-03
##
##
     [1930,] 1.102938e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.104765e-03
##
     [1931,] 1.366744e-03 7.227826e-03 1.507032e-02 1.823468e-02 1.369536e-03
     [1932,] 0.000000e+00 6.997419e-04 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [1934,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [1936,] 0.000000e+00 0.000000e+00 0.000000e+00 6.205339e-04 0.000000e+00
##
##
     [1937,] 0.000000e+00 0.000000e+00 5.858228e-03 0.000000e+00 0.000000e+00
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##
     [1939,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1940,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1941,] 0.000000e+00 6.832678e-03 9.693379e-03 5.802703e-03 0.000000e+00
##
     [1942,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1943,] 3.375210e-03 2.897645e-03 1.176106e-02 1.827040e-03 3.392054e-03
##
     [1944,] 0.000000e+00 7.729264e-03 7.154828e-03 1.928255e-02 0.000000e+00
##
##
     [1945,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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##
     [1948,] 3.287657e-03 1.087933e-02 5.467475e-03 9.039066e-03 3.303641e-03
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     [1951,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1952,] 0.000000e+00 0.000000e+00 3.279029e-03 5.793219e-03 0.000000e+00
```

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##
     [1953,] 1.924421e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.929926e-03
     [1954,] 5.742765e-03 8.404534e-03 1.143446e-02 2.711958e-02 5.791422e-03
##
     [1955,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1956,] 2.533215e-03 9.098268e-03 5.038664e-03 0.000000e+00 2.542725e-03
##
     [1957,] 3.660005e-03 2.009026e-03 3.043878e-03 1.093606e-02 3.679802e-03
##
##
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     [1959,] 4.362226e-03 4.814397e-04 0.000000e+00 5.451473e-03 4.390324e-03
##
##
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     [1961,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1962,] 4.918877e-03 1.254898e-02 1.411515e-02 1.838867e-02 4.954588e-03
##
##
     [1963,] 3.670857e-03 6.952173e-03 5.219948e-03 3.945434e-03 3.690771e-03
##
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     [1965,] 1.992843e-03 0.000000e+00 3.117435e-03 0.000000e+00 1.998744e-03
##
##
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##
     [1967,] 5.057630e-04 0.000000e+00 0.000000e+00 0.000000e+00 5.061579e-04
##
     [1968,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1969,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1970,] 0.000000e+00 0.000000e+00 1.176345e-03 2.408615e-03 0.000000e+00
     [1971,] 2.878106e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.890368e-03
##
##
     [1972,] 1.371186e-04 0.000000e+00 0.000000e+00 0.000000e+00 1.371516e-04
     [1973,] 0.000000e+00 0.000000e+00 2.455316e-03 2.811777e-03 0.000000e+00
##
     [1974,] 8.994001e-03 3.116618e-03 1.547755e-03 0.000000e+00 9.113330e-03
##
##
     [1975,] 7.093853e-05 0.000000e+00 0.000000e+00 0.000000e+00 7.094874e-05
##
     [1976,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [1978,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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##
     [1981,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [1982,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [1993,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [2009,] 0.000000e+00 0.000000e+00 2.623354e-03 3.640815e-03 0.000000e+00
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     [2014,] 2.457568e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.466521e-03
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     [2021,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [2023,] 5.650086e-03 1.154020e-03 8.379520e-03 7.308288e-03 5.697186e-03
##
     [2024,] 3.392873e-03 1.063598e-02 9.152140e-03 8.000971e-03 3.409893e-03
##
##
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     [2027,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
##
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##
     [2112,] 0.000000e+00 0.000000e+00 0.000000e+00 5.586958e-03 0.000000e+00
##
##
     [2113,] 0.000000e+00 0.000000e+00 7.438022e-03 4.816832e-03 0.000000e+00
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     [2114,] 9.122717e-03 1.989772e-03 2.435698e-03 1.958168e-02 9.245488e-03
     [2115,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [2121,] 1.948506e-03 7.878433e-03 9.927633e-03 2.133613e-03 1.954148e-03
##
##
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     [2123,] 0.000000e+00 0.000000e+00 1.539249e-03 0.000000e+00 0.000000e+00
##
##
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##
     [2125,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
     [2130,] 5.045251e-03 9.548471e-05 8.376570e-03 8.091173e-03 5.082818e-03
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     [2132,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [2134,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2135,] 1.124007e-02 1.649134e-02 1.948142e-02 6.305534e-03 1.142653e-02
     [2136,] 0.000000e+00 2.967724e-03 5.103410e-04 6.444245e-03 0.000000e+00
##
##
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     [2138,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
##
     [2147,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [2151,] 0.000000e+00 2.507375e-03 5.651184e-03 0.000000e+00 0.000000e+00
##
##
     [2152,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
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##
     [2155,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [2157,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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##
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##
##
     [2164,] 0.000000e+00 8.618150e-03 2.591344e-02 2.919598e-02 0.000000e+00
     [2165,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2166,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2167,] 1.815240e-03 6.382533e-03 8.907036e-03 8.179816e-03 1.820142e-03
##
     [2168,] 2.598151e-03 4.226223e-03 0.000000e+00 0.000000e+00 2.608152e-03
##
     [2169,] 0.000000e+00 0.000000e+00 1.035239e-02 1.065057e-02 0.000000e+00
##
     [2170,] 7.447875e-03 1.884692e-02 2.249370e-02 3.090195e-02 7.529694e-03
     [2171,] 6.425592e-03 1.824384e-03 3.062186e-03 0.000000e+00 6.486497e-03
##
##
     [2172,] 0.000000e+00 0.000000e+00 2.726860e-04 0.000000e+00 0.000000e+00
     [2173,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2174,] 1.359649e-03 3.463905e-03 0.000000e+00 0.000000e+00 1.362412e-03
##
##
     [2175,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2176,] 7.902943e-03 0.000000e+00 0.000000e+00 0.000000e+00 7.995066e-03
     [2177,] 6.708063e-03 1.363866e-02 2.065918e-02 2.286770e-02 6.774437e-03
##
##
     [2178,] 0.000000e+00 4.852753e-03 1.429476e-02 1.493463e-02 0.000000e+00
##
     [2179,] 6.551849e-03 1.178650e-02 0.000000e+00 0.000000e+00 6.615170e-03
##
     [2180,] 2.494429e-03 7.670681e-03 0.000000e+00 0.000000e+00 2.503651e-03
##
     [2181,] 6.937413e-04 0.000000e+00 2.061334e-04 1.556091e-02 6.944742e-04
     [2182,] 0.000000e+00 0.000000e+00 0.000000e+00 3.037298e-03 0.000000e+00
##
##
     [2183,] 4.771452e-03 1.318416e-03 8.856314e-03 7.100176e-03 4.805058e-03
     [2184,] 0.000000e+00 1.077675e-02 4.017208e-03 1.121320e-02 0.000000e+00
##
##
     [2185,] 0.000000e+00 0.000000e+00 6.433571e-04 0.000000e+00 0.000000e+00
##
     [2186,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2187,] 4.809831e-03 8.174012e-04 7.365516e-03 1.151942e-02 4.843978e-03
     [2188,] 2.726147e-03 5.249281e-03 5.717061e-03 7.725202e-03 2.737153e-03
##
##
     [2189,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2190,] 3.240787e-03 0.000000e+00 0.000000e+00 0.000000e+00 3.256321e-03
##
     [2191,] 7.698434e-04 3.402099e-03 5.683405e-03 0.000000e+00 7.707425e-04
##
     [2192,] 6.005503e-04 0.000000e+00 0.000000e+00 6.274583e-03 6.011027e-04
     [2193,] 8.529873e-04 0.000000e+00 0.000000e+00 4.055253e-03 8.540874e-04
##
     [2194,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2195,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [2196,] 8.172443e-03 7.675738e-04 0.000000e+00 0.000000e+00 8.270958e-03
##
     [2197,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2198,] 1.047061e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.048709e-03
##
     [2199,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2200,] 6.422094e-04 0.000000e+00 0.000000e+00 0.000000e+00 6.428393e-04
##
     [2201,] 5.234672e-03 4.684989e-03 5.172426e-03 2.819902e-03 5.275108e-03
##
     [2202,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
     [2203,] 8.948586e-03 9.062610e-03 0.000000e+00 0.000000e+00 9.066712e-03
     [2204,] 0.000000e+00 7.848558e-04 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2205,] 0.000000e+00 0.000000e+00 0.000000e+00 7.084083e-06 0.000000e+00
##
##
     [2206,] 2.196061e-03 1.318438e-02 2.485109e-02 3.802534e-03 2.203219e-03
     [2207,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2208,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [2209,] 0.000000e+00 0.000000e+00 2.428676e-03 1.302199e-03 0.000000e+00
##
##
     [2210,] 0.000000e+00 1.143166e-02 7.119132e-03 9.418986e-04 0.000000e+00
     [2211,] 9.325233e-03 1.905655e-02 2.042334e-02 2.377923e-02 9.453520e-03
##
##
     [2212,] 0.000000e+00 8.198576e-03 4.184830e-04 4.496940e-04 0.000000e+00
     [2213,] 0.000000e+00 3.775340e-03 8.142137e-03 6.269366e-03 0.000000e+00
##
##
     [2214,] 6.804867e-03 9.424806e-03 9.547160e-03 5.543429e-03 6.873170e-03
     [2215,] 1.633974e-03 1.786914e-04 0.000000e+00 3.112609e-03 1.637952e-03
##
##
     [2216,] 2.102696e-03 0.000000e+00 2.908865e-03 0.000000e+00 2.109261e-03
##
     [2217,] 4.132068e-03 1.620006e-02 7.198483e-04 0.000000e+00 4.157285e-03
     [2218,] 4.589119e-03 0.000000e+00 1.016905e-04 0.000000e+00 4.620210e-03
##
##
     [2219,] 4.176874e-05 3.835206e-03 7.454672e-03 2.191814e-03 4.177297e-05
##
     [2220,] 7.066243e-04 4.096128e-03 1.113038e-02 1.390466e-02 7.073840e-04
     [2221,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2222,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [2223,] 1.890774e-03 4.165218e-03 7.403538e-03 0.000000e+00 1.896090e-03
##
     [2224,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2225,] 2.817050e-04 4.621487e-03 2.135160e-03 0.000000e+00 2.818326e-04
##
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##
     [2227,] 0.000000e+00 4.002192e-04 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
##
     [2230,] 0.000000e+00 0.000000e+00 1.130236e-03 0.000000e+00 0.000000e+00
##
     [2231,] 2.939643e-03 1.220457e-02 3.568701e-03 1.019211e-02 2.952433e-03
     [2232,] 1.929557e-03 7.922667e-03 9.606199e-03 9.667921e-03 1.935092e-03
##
##
     [2233,] 2.202474e-03 5.767529e-05 0.000000e+00 0.000000e+00 2.209673e-03
##
     [2234,] 3.239356e-03 6.934262e-03 4.921410e-03 0.000000e+00 3.254875e-03
##
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##
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##
     [2237,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [2238,] 0.000000e+00 0.000000e+00 1.127428e-03 9.033522e-03 0.000000e+00
##
##
     [2239,] 0.000000e+00 0.000000e+00 8.170980e-03 0.000000e+00 0.000000e+00
##
     [2240,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [2242,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [2243,] 3.675528e-03 0.000000e+00 6.606958e-03 7.778427e-03 3.695492e-03
##
##
     [2244,] 0.000000e+00 1.626838e-03 6.396293e-03 4.807839e-03 0.000000e+00
##
     [2245,] 0.000000e+00 0.000000e+00 2.571276e-03 4.930082e-03 0.000000e+00
##
     [2246,] 3.979010e-03 3.842820e-04 0.000000e+00 0.000000e+00 4.002398e-03
##
     [2247,] 3.013455e-03 1.079166e-02 6.160297e-03 1.106941e-02 3.026893e-03
##
     [2248,] 0.000000e+00 2.842570e-03 8.323357e-03 1.343269e-02 0.000000e+00
##
     [2249,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2250,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2251,] 1.018533e-02 1.015457e-02 9.069024e-04 9.983910e-03 1.033840e-02
##
     [2252,] 0.000000e+00 0.000000e+00 3.314302e-03 2.768567e-03 0.000000e+00
```

```
##
     [2253,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [2254,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2255,] 0.000000e+00 3.228808e-03 4.291831e-03 0.000000e+00 0.000000e+00
##
##
     [2256,] 7.429665e-04 0.000000e+00 0.000000e+00 0.000000e+00 7.438049e-04
     [2257,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2258,] 4.910400e-03 4.074904e-03 0.000000e+00 0.000000e+00 4.945988e-03
     [2259,] 0.000000e+00 1.189599e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2260,] 1.717191e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.721581e-03
     [2261,] 8.164603e-03 1.178931e-02 6.680150e-03 1.894408e-03 8.262929e-03
##
##
     [2262,] 5.599900e-03 0.000000e+00 9.902370e-04 2.407669e-03 5.646168e-03
##
     [2263,] 0.000000e+00 2.075421e-03 8.104577e-03 6.747921e-03 0.000000e+00
##
     [2264,] 6.486152e-03 1.054725e-02 2.976024e-03 9.001073e-04 6.548209e-03
     [2265,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2266,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2267,] 5.674994e-03 8.205913e-04 3.625841e-03 0.000000e+00 5.722510e-03
##
     [2268,] 1.154254e-03 8.576849e-03 1.209702e-03 0.000000e+00 1.156252e-03
##
     [2269,] 2.699722e-03 3.014270e-03 6.728914e-03 1.163982e-02 2.710517e-03
##
     [2270,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [2271,] 6.979837e-04 2.797204e-03 6.857519e-04 1.853443e-03 6.987253e-04
##
##
     [2272,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [2273,] 0.000000e+00 1.857512e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2274,] 1.316641e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.319234e-03
##
     [2275,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2276,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2277,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2278,] 2.810928e-03 0.000000e+00 0.000000e+00 6.732807e-03 2.822626e-03
     [2279,] 2.382369e-03 4.861486e-03 4.914758e-03 4.746258e-03 2.390785e-03
##
##
     [2280,] 0.000000e+00 0.000000e+00 1.573176e-03 5.738748e-04 0.000000e+00
##
     [2281,] 3.390829e-03 1.015730e-02 9.464862e-03 7.360021e-03 3.407828e-03
     [2282,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2283,] 4.512531e-03 3.261391e-03 1.249323e-02 7.370760e-03 4.542594e-03
     [2284,] 8.654524e-03 1.133042e-02 1.542902e-02 1.473348e-02 8.765010e-03
##
##
     [2285,] 5.536984e-03 1.179309e-02 6.161992e-03 6.844607e-03 5.582220e-03
     [2286,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [2288,] 3.928008e-03 6.055213e-03 3.026236e-03 0.000000e+00 3.950801e-03
##
##
     [2289,] 3.583632e-03 6.562439e-03 1.816651e-03 0.000000e+00 3.602614e-03
##
     [2290,] 0.000000e+00 0.000000e+00 7.818271e-03 1.744420e-02 0.000000e+00
##
     [2291,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2292,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [2293,] 5.139078e-03 0.000000e+00 0.000000e+00 2.572667e-03 5.178052e-03
##
##
     [2294,] 1.468533e-05 0.000000e+00 2.365453e-03 8.935559e-03 1.468624e-05
##
     [2295,] 6.998395e-04 0.000000e+00 1.008376e-02 1.333229e-02 7.005850e-04
     [2296,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2297,] 0.000000e+00 1.274658e-03 5.540117e-03 7.746301e-03 0.000000e+00
##
     [2298,] 1.526304e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.529779e-03
##
     [2299,] 1.655783e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.659867e-03
##
     [2300,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [2301,] 5.617424e-03 1.671733e-02 7.913338e-03 1.370616e-02 5.663981e-03
##
##
     [2302,] 0.000000e+00 7.991736e-04 1.238836e-02 1.113291e-02 0.000000e+00
```

```
##
     [2303,] 3.813819e-03 0.000000e+00 0.000000e+00 0.000000e+00 3.835310e-03
     [2304,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2305,] 0.000000e+00 2.936806e-03 0.000000e+00 1.869030e-03 0.000000e+00
##
##
     [2306,] 4.438156e-03 8.316778e-03 1.406668e-02 1.944802e-02 4.467238e-03
     [2307,] 4.278784e-03 1.106220e-03 0.000000e+00 0.000000e+00 4.305819e-03
##
##
     [2308,] 0.000000e+00 0.000000e+00 2.114176e-03 7.095416e-03 0.000000e+00
     [2309,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2310,] 0.000000e+00 0.000000e+00 2.293438e-03 2.447676e-04 0.000000e+00
##
     [2311,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2312,] 0.000000e+00 4.664238e-03 1.020713e-02 1.098732e-02 0.000000e+00
##
     [2313,] 7.412719e-03 1.511314e-02 1.558105e-02 1.747346e-02 7.493767e-03
##
##
     [2314,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [2315,] 1.126541e-03 5.977372e-03 6.725723e-03 1.591868e-04 1.128446e-03
##
##
     [2316,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2317,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2318,] 0.000000e+00 1.090975e-02 9.862380e-03 3.146987e-03 0.000000e+00
##
     [2319,] 8.796522e-04 0.000000e+00 0.000000e+00 4.570571e-03 8.808210e-04
##
     [2320,] 8.965661e-03 1.156311e-02 1.320889e-02 9.989453e-03 9.084238e-03
     [2321,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2322,] 5.973726e-04 4.898462e-03 4.902262e-03 2.010149e-03 5.979193e-04
     [2323,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2324,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2325,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2326,] 0.000000e+00 0.000000e+00 0.000000e+00 6.060388e-04 0.000000e+00
##
     [2327,] 4.366402e-03 0.000000e+00 0.000000e+00 0.000000e+00 4.394554e-03
     [2328,] 0.000000e+00 0.000000e+00 0.000000e+00 1.686046e-03 0.000000e+00
##
##
     [2329,] 6.738315e-04 0.000000e+00 0.000000e+00 0.000000e+00 6.745236e-04
##
     [2330,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2331,] 2.540369e-03 0.000000e+00 0.000000e+00 2.168778e-03 2.549932e-03
     [2332,] 4.388438e-03 3.246495e-03 0.000000e+00 0.000000e+00 4.416874e-03
##
##
     [2333,] 0.000000e+00 5.578422e-04 1.555901e-04 5.784303e-04 0.000000e+00
     [2334,] 0.000000e+00 0.000000e+00 7.294345e-03 1.379060e-02 0.000000e+00
##
##
     [2335,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2336,] 0.000000e+00 0.000000e+00 1.595830e-03 0.000000e+00 0.000000e+00
##
     [2337,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [2338,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2339,] 0.000000e+00 1.651158e-03 0.000000e+00 3.417002e-03 0.000000e+00
##
##
     [2340,] 1.588449e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.592210e-03
##
     [2341,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2342,] 5.786255e-03 6.001834e-04 1.154103e-02 7.909564e-03 5.835651e-03
     [2343,] 0.000000e+00 0.000000e+00 7.295908e-04 8.025767e-03 0.000000e+00
##
##
     [2344,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2345,] 2.647724e-03 7.181682e-03 0.000000e+00 1.148008e-02 2.658109e-03
##
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##
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##
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##
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##
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##
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##
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##
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##
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     [2621,] 0.000000e+00 0.000000e+00 0.000000e+00 2.900862e-03 0.000000e+00
##
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##
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##
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##
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##
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##
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     [2709,] 6.731049e-03 9.262359e-03 1.643023e-02 1.506069e-02 6.797879e-03
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##
##
     [2713,] 3.547118e-03 1.890052e-02 3.340031e-02 3.847366e-02 3.565715e-03
##
     [2714,] 0.000000e+00 0.000000e+00 1.374989e-03 1.546471e-03 0.000000e+00
     [2715,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
##
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##
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##
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##
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     [2760,] 4.725888e-04 5.964502e-04 8.759341e-03 7.022338e-03 4.729349e-04
     [2761,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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##
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     [2765,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
##
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##
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     [2793,] 6.373777e-04 0.000000e+00 0.000000e+00 0.000000e+00 6.379983e-04
##
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##
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##
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##
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##
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     [2801,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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     [2807,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
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     [2816,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
##
     [2822,] 0.000000e+00 1.242354e-03 0.000000e+00 1.603685e-03 0.000000e+00
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##
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##
##
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     [2832,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [2836,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
##
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##
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##
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##
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##
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##
##
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##
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     [2873,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
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##
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##
     [2892,] 0.000000e+00 0.000000e+00 0.000000e+00 1.705319e-03 0.000000e+00
     [2893,] 0.000000e+00 1.908613e-03 4.936965e-04 0.000000e+00 0.000000e+00
##
     [2894,] 2.212743e-03 8.975274e-03 7.262465e-03 0.000000e+00 2.220009e-03
##
##
     [2895,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [2896,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2897,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2898,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2899,] 0.000000e+00 1.814947e-03 7.766412e-04 0.000000e+00 0.000000e+00
##
     [2900,] 4.409900e-03 4.508504e-03 7.894226e-03 0.000000e+00 4.438614e-03
     [2901,] 0.000000e+00 8.740801e-03 1.744915e-02 2.936868e-02 0.000000e+00
##
##
     [2902,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
     [2903,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [2905,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2906,] 1.949061e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.954707e-03
##
     [2907,] 4.001183e-03 4.631367e-03 0.000000e+00 0.000000e+00 4.024832e-03
##
##
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     [2909,] 8.576664e-03 1.475829e-02 2.471054e-02 3.825538e-02 8.685170e-03
##
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##
     [2913,] 2.996245e-03 8.551337e-03 0.000000e+00 0.000000e+00 3.009530e-03
##
##
     [2914,] 1.817468e-03 1.714299e-02 1.779227e-02 2.103086e-02 1.822382e-03
     [2915,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [2918,] 2.702546e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.713363e-03
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##
##
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##
     [2924,] 3.423993e-03 9.144540e-04 7.902434e-03 6.742190e-03 3.441326e-03
##
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##
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##
##
     [2930,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
     [2939,] 2.211968e-03 3.058715e-03 0.000000e+00 0.000000e+00 2.219229e-03
##
##
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##
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##
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##
##
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##
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##
     [2950,] 1.510654e-03 6.149414e-03 1.295437e-02 1.162151e-02 1.514058e-03
     [2951,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2952,] 1.991317e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.997209e-03
```

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##
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##
     [2956,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2957,] 0.000000e+00 5.109420e-03 8.258299e-03 7.184555e-03 0.000000e+00
##
##
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     [2959,] 9.744858e-03 7.114791e-03 8.724683e-04 4.297846e-04 9.884961e-03
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##
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##
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##
     [2963,] 4.955753e-03 6.423432e-03 6.568715e-04 0.000000e+00 4.992000e-03
##
##
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     [2965,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
     [2967,] 4.785987e-03 1.216867e-02 8.692673e-03 1.163506e-02 4.819798e-03
##
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##
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     [2970,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [2971,] 0.000000e+00 0.000000e+00 7.762761e-03 1.584327e-02 0.000000e+00
##
##
     [2972,] 5.208333e-03 1.972695e-02 3.085638e-02 4.294963e-02 5.248364e-03
     [2973,] 4.770651e-03 0.000000e+00 0.000000e+00 0.000000e+00 4.804245e-03
##
     [2974,] 3.928036e-03 3.330949e-03 0.000000e+00 2.205177e-04 3.950830e-03
##
##
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##
##
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##
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##
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##
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##
##
     [2983,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2984,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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     [2988,] 5.280490e-05 0.000000e+00 3.418147e-04 5.026126e-03 5.281110e-05
##
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##
##
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##
     [2991,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [2992,] 0.000000e+00 0.000000e+00 0.000000e+00 2.760035e-04 0.000000e+00
##
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##
     [2994,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [2996,] 0.000000e+00 9.831822e-03 7.743879e-05 1.243375e-02 0.000000e+00
##
##
     [2997,] 0.000000e+00 9.856680e-04 8.408221e-03 0.000000e+00 0.000000e+00
##
     [2998,] 1.611197e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.615065e-03
##
     [2999,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [3001,] 1.618608e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.622512e-03
##
##
     [3002,] 0.000000e+00 9.556855e-04 5.780723e-03 4.128372e-03 0.000000e+00
```

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##
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##
     [3004,] 0.000000e+00 0.000000e+00 4.409648e-03 1.042216e-02 0.000000e+00
     [3005,] 1.255664e-02 2.883718e-03 0.000000e+00 0.000000e+00 1.278943e-02
##
##
     [3006,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3007,] 0.000000e+00 2.118989e-03 8.037076e-03 2.471448e-02 0.000000e+00
##
##
     [3008,] 0.000000e+00 2.359130e-03 0.000000e+00 0.000000e+00 0.000000e+00
     [3009,] 6.419641e-03 7.366527e-04 2.669552e-03 2.642815e-03 6.480433e-03
##
##
     [3010,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
     [3013,] 1.720456e-03 8.911367e-03 1.769014e-02 1.897078e-02 1.724863e-03
##
##
     [3014,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3015,] 4.674119e-03 8.591620e-03 1.265060e-02 7.169697e-03 4.706369e-03
##
##
     [3016,] 1.118145e-02 8.806674e-03 9.144903e-03 1.150262e-02 1.136597e-02
##
     [3017,] 0.000000e+00 0.000000e+00 3.104198e-03 3.844422e-03 0.000000e+00
##
     [3018,] 0.000000e+00 3.316424e-03 1.755680e-03 0.000000e+00 0.000000e+00
##
     [3019,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3020,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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     [3023,] 6.475647e-04 9.887611e-03 7.782745e-05 0.000000e+00 6.482049e-04
##
##
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##
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##
     [3026,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3027,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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     [3032,] 0.000000e+00 0.000000e+00 0.000000e+00 6.195374e-04 0.000000e+00
##
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##
##
     [3035,] 0.000000e+00 4.227355e-04 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
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##
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##
##
     [3044,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
##
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##
##
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##
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##
##
     [3052,] 0.000000e+00 1.475953e-03 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
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##
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##
##
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##
##
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##
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##
     [3061,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
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##
##
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     [3073,] 0.000000e+00 0.000000e+00 6.281656e-03 4.719637e-03 0.000000e+00
##
     [3074,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [3075,] 4.562266e-03 8.328033e-03 8.178977e-03 1.149797e-02 4.592994e-03
##
     [3076,] 3.621544e-03 0.000000e+00 0.000000e+00 4.522136e-06 3.640928e-03
##
     [3077,] 0.000000e+00 3.940443e-03 3.741244e-03 1.333872e-02 0.000000e+00
     [3078,] 0.000000e+00 8.881647e-03 1.932662e-03 0.000000e+00 0.000000e+00
##
     [3079,] 5.556599e-04 1.139341e-02 1.149375e-02 9.180621e-03 5.561344e-04
##
##
     [3080,] 9.003082e-03 1.067398e-02 1.877430e-02 4.352108e-02 9.122652e-03
##
     [3081,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3082,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [3083,] 3.223383e-03 4.052199e-03 8.791036e-03 5.212605e-03 3.238751e-03
     [3084,] 5.191699e-04 0.000000e+00 2.250712e-03 0.000000e+00 5.195856e-04
##
##
     [3085,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3086,] 6.540774e-03 0.000000e+00 0.000000e+00 0.000000e+00 6.603880e-03
##
##
     [3087,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3088,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3089,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [3090,] 0.000000e+00 6.777704e-04 0.000000e+00 7.241666e-03 0.000000e+00
##
     [3091,] 0.000000e+00 0.000000e+00 0.000000e+00 4.233036e-03 0.000000e+00
##
     [3092,] 1.461495e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.464684e-03
     [3093,] 4.213024e-03 0.000000e+00 0.000000e+00 0.000000e+00 4.239236e-03
##
     [3094,] 3.483507e-03 1.554432e-03 1.800010e-03 6.365420e-03 3.501446e-03
##
##
     [3095,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3096,] 0.000000e+00 4.265517e-03 6.829655e-03 3.612164e-03 0.000000e+00
##
##
     [3097,] 4.402874e-03 3.297353e-04 0.000000e+00 0.000000e+00 4.431497e-03
##
     [3098,] 5.561685e-03 2.253994e-03 2.286785e-03 4.682239e-03 5.607325e-03
##
     [3099,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3100,] 1.068771e-02 4.226071e-03 2.456278e-03 0.000000e+00 1.085627e-02
     [3101,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3102,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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     [3104,] 4.210893e-03 2.988217e-03 0.000000e+00 0.000000e+00 4.237080e-03
##
     [3105,] 6.066540e-03 5.528344e-04 0.000000e+00 0.000000e+00 6.120832e-03
##
##
     [3106,] 0.000000e+00 0.000000e+00 0.000000e+00 1.053212e-03 0.000000e+00
##
     [3107,] 0.000000e+00 0.000000e+00 0.000000e+00 3.226855e-03 0.000000e+00
##
     [3108,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3109,] 8.889622e-03 0.000000e+00 2.067043e-03 9.538074e-03 9.006195e-03
##
     [3110,] 7.690225e-03 2.381690e-04 1.300816e-03 1.185367e-02 7.777455e-03
     [3111,] 5.582855e-03 4.983825e-03 6.951542e-03 1.705809e-02 5.628842e-03
##
     [3112,] 9.863445e-03 5.724123e-03 5.108159e-03 3.404215e-03 1.000698e-02
##
     [3113,] 1.992284e-03 4.817930e-03 7.597757e-03 1.733173e-02 1.998182e-03
##
##
     [3114,] 0.000000e+00 0.000000e+00 1.061126e-03 0.000000e+00 0.000000e+00
     [3115,] 4.410391e-04 2.491479e-03 3.899676e-03 0.000000e+00 4.413417e-04
##
##
     [3116,] 0.000000e+00 0.000000e+00 0.000000e+00 8.951679e-04 0.000000e+00
##
     [3117,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3118,] 0.000000e+00 9.929289e-03 2.576958e-02 3.156564e-02 0.000000e+00
##
     [3119,] 4.389066e-03 1.129751e-02 1.411904e-02 1.632988e-02 4.417510e-03
##
     [3120,] 2.873671e-03 1.425677e-02 1.487837e-02 1.326868e-02 2.885895e-03
     [3121,] 0.000000e+00 0.000000e+00 3.693530e-04 1.771245e-03 0.000000e+00
##
##
     [3122,] 1.641105e-03 2.996561e-03 2.547745e-03 0.000000e+00 1.645117e-03
     [3123,] 4.029293e-03 0.000000e+00 0.000000e+00 0.000000e+00 4.053274e-03
##
##
     [3124,] 5.212839e-04 0.000000e+00 4.476148e-03 0.000000e+00 5.217028e-04
##
     [3125,] 0.000000e+00 0.000000e+00 3.940950e-04 1.113740e-02 0.000000e+00
     [3126,] 1.646742e-03 3.850368e-03 1.328620e-02 1.557614e-02 1.650782e-03
##
##
     [3127,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3128,] 1.175318e-02 9.121023e-03 1.510534e-02 1.076843e-02 1.195708e-02
##
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##
     [3130,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [3132,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [3133,] 0.000000e+00 6.145352e-04 1.948500e-03 0.000000e+00 0.000000e+00
     [3134,] 6.444317e-03 0.000000e+00 0.000000e+00 1.210508e-03 6.505577e-03
##
##
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     [3136,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [3137,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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##
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##
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##
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##
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##
##
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     [3146,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [3147,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3148,] 5.312522e-04 0.000000e+00 0.000000e+00 0.000000e+00 5.316869e-04
##
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##
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     [3151,] 1.020074e-03 4.096419e-03 1.283210e-02 1.036348e-02 1.021639e-03
##
##
     [3152,] 1.125200e-04 0.000000e+00 0.000000e+00 0.000000e+00 1.125431e-04
```

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##
     [3153,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3154,] 4.728121e-04 8.173556e-03 7.852951e-04 4.888418e-03 4.731585e-04
##
     [3155,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [3157,] 2.676169e-03 1.754285e-03 9.030434e-03 1.160725e-02 2.686777e-03
##
##
     [3158,] 0.000000e+00 3.781949e-03 1.405044e-02 1.637460e-02 0.000000e+00
##
     [3159,] 4.810113e-04 5.117420e-03 0.000000e+00 0.000000e+00 4.813695e-04
##
     [3160,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3161,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3162,] 6.037401e-03 0.000000e+00 5.603545e-04 5.793548e-03 6.091173e-03
##
     [3163,] 0.000000e+00 0.000000e+00 2.051711e-04 0.000000e+00 0.000000e+00
##
##
     [3164,] 0.000000e+00 0.000000e+00 0.000000e+00 1.342212e-03 0.000000e+00
     [3165,] 3.842996e-03 0.000000e+00 0.000000e+00 0.000000e+00 3.864816e-03
##
##
     [3166,] 0.000000e+00 0.000000e+00 0.000000e+00 7.727146e-03 0.000000e+00
##
     [3167,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3168,] 0.000000e+00 2.754508e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3169,] 0.000000e+00 3.596576e-03 1.642447e-02 1.880699e-02 0.000000e+00
##
     [3170,] 0.000000e+00 0.000000e+00 4.448171e-03 3.828979e-03 0.000000e+00
     [3171,] 0.000000e+00 5.631521e-03 9.848674e-03 1.588793e-02 0.000000e+00
##
##
     [3172,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3173,] 2.862611e-03 6.966320e-03 1.065122e-02 6.126295e-03 2.874742e-03
##
     [3174,] 1.558126e-04 7.337338e-04 0.000000e+00 0.000000e+00 1.558544e-04
##
##
     [3175,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
##
     [3178,] 3.169150e-03 0.000000e+00 0.000000e+00 0.000000e+00 3.184006e-03
     [3179,] 6.109149e-03 1.638616e-02 3.413254e-03 2.002880e-03 6.164207e-03
##
##
     [3180,] 0.000000e+00 2.799592e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3181,] 0.000000e+00 0.000000e+00 0.000000e+00 1.007803e-02 0.000000e+00
     [3182,] 0.000000e+00 1.614722e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
     [3184,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3185,] 4.222729e-03 6.506703e-03 2.645295e-03 5.987037e-03 4.249063e-03
##
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##
     [3187,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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##
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##
     [3191,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3192,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3193,] 0.000000e+00 8.365050e-03 1.449270e-02 8.105306e-03 0.000000e+00
##
     [3194,] 0.000000e+00 0.000000e+00 0.000000e+00 2.042595e-03 0.000000e+00
##
##
     [3195,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3196,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3197,] 0.000000e+00 4.027490e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [3198,] 0.000000e+00 3.492005e-03 8.901709e-03 0.000000e+00 0.000000e+00
##
     [3199,] 2.667677e-03 3.558988e-03 3.030029e-03 4.127665e-03 2.678218e-03
##
     [3200,] 7.908395e-04 0.000000e+00 1.353275e-03 2.384825e-03 7.917874e-04
##
     [3201,] 2.038586e-03 6.361096e-03 6.098817e-03 4.233828e-03 2.044760e-03
##
     [3202,] 0.000000e+00 0.000000e+00 0.000000e+00 2.185248e-04 0.000000e+00
```

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##
     [3203,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3204,] 5.200352e-03 8.127216e-03 1.278744e-02 1.411222e-02 5.240260e-03
##
     [3205,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [3206,] 8.867921e-03 1.739693e-02 1.681437e-02 1.840318e-02 8.983926e-03
     [3207,] 0.000000e+00 0.000000e+00 8.716490e-03 1.135030e-02 0.000000e+00
##
##
     [3208,] 3.739644e-03 6.075027e-04 0.000000e+00 0.000000e+00 3.760310e-03
##
     [3209,] 2.350181e-03 8.411206e-03 1.176676e-02 8.286462e-03 2.358373e-03
##
     [3210,] 0.000000e+00 2.715153e-03 6.075335e-03 1.224316e-02 0.000000e+00
     [3211,] 0.000000e+00 1.490940e-03 3.595421e-03 1.141039e-02 0.000000e+00
##
     [3212,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3213,] 9.266944e-03 1.503871e-02 8.416599e-03 1.285500e-02 9.393631e-03
##
##
     [3214,] 2.846049e-03 1.268351e-02 2.129220e-02 2.929139e-02 2.858040e-03
     [3215,] 4.324881e-03 7.458358e-03 9.796379e-03 9.976296e-03 4.352501e-03
##
##
     [3216,] 4.572626e-03 2.520125e-03 6.144550e-03 2.080215e-03 4.603494e-03
##
     [3217,] 2.548333e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.557956e-03
     [3218,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [3219,] 6.348662e-03 2.096980e-03 2.860403e-03 0.000000e+00 6.408118e-03
##
     [3220,] 3.179012e-03 0.000000e+00 0.000000e+00 0.000000e+00 3.193961e-03
     [3221,] 1.253290e-02 6.433054e-03 0.000000e+00 0.000000e+00 1.276481e-02
##
##
     [3222,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3223,] 0.000000e+00 3.385326e-03 9.456532e-03 4.487241e-03 0.000000e+00
##
     [3224,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [3225,] 1.663688e-04 9.730782e-05 0.000000e+00 0.000000e+00 1.664160e-04
##
     [3226,] 0.000000e+00 1.113188e-03 0.000000e+00 0.000000e+00 0.000000e+00
     [3227,] 3.587227e-03 2.885024e-03 0.000000e+00 0.000000e+00 3.606246e-03
##
##
     [3228,] 1.096557e-02 9.272151e-03 4.536829e-03 6.055513e-03 1.114302e-02
##
     [3229,] 2.800093e-03 1.967638e-03 8.447828e-04 0.000000e+00 2.811701e-03
##
     [3230,] 0.000000e+00 0.000000e+00 0.000000e+00 6.653824e-03 0.000000e+00
##
     [3231,] 0.000000e+00 0.000000e+00 9.134494e-03 1.967120e-02 0.000000e+00
     [3232,] 4.269893e-05 0.000000e+00 0.000000e+00 0.000000e+00 4.270331e-05
##
##
     [3233,] 0.000000e+00 0.000000e+00 0.000000e+00 2.010060e-03 0.000000e+00
##
     [3234,] 0.000000e+00 0.000000e+00 1.616360e-03 0.000000e+00 0.000000e+00
##
     [3235,] 0.000000e+00 0.000000e+00 0.000000e+00 2.053650e-04 0.000000e+00
##
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##
     [3237,] 4.243184e-03 1.127948e-02 2.223227e-02 1.214662e-02 4.269773e-03
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##
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##
##
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##
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     [3243,] 0.000000e+00 5.319943e-03 1.095033e-02 1.189639e-04 0.000000e+00
##
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##
     [3245,] 5.965779e-03 5.761759e-03 3.094644e-02 3.336379e-02 6.018284e-03
##
##
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##
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##
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##
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##
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     [3251,] 0.000000e+00 1.696661e-03 9.120969e-03 1.555391e-02 0.000000e+00
##
##
     [3252,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
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##
##
     [3256,] 9.427051e-03 8.889710e-03 8.741899e-03 4.116212e-03 9.558157e-03
     [3257,] 1.960902e-03 1.671932e-03 0.000000e+00 4.668678e-03 1.966617e-03
##
##
     [3258,] 0.000000e+00 6.320965e-03 6.850113e-03 1.571311e-02 0.000000e+00
##
     [3259,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [3261,] 5.093972e-03 1.139834e-03 0.000000e+00 0.000000e+00 5.132267e-03
##
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##
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##
##
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     [3265,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [3266,] 4.271047e-03 3.113830e-03 5.719667e-03 0.000000e+00 4.297985e-03
##
     [3267,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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##
##
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##
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     [3301,] 0.000000e+00 0.000000e+00 0.000000e+00 2.937986e-04 0.000000e+00
##
##
     [3302,] 4.000625e-03 6.123170e-04 8.326487e-03 1.874348e-02 4.024267e-03
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##
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##
##
     [3306,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3307,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [3309,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [3311,] 0.000000e+00 0.000000e+00 2.980082e-03 0.000000e+00 0.000000e+00
##
     [3312,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3313,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [3314,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
     [3316,] 0.000000e+00 1.645532e-03 0.000000e+00 2.732044e-03 0.000000e+00
##
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     [3318,] 0.000000e+00 2.387293e-03 0.000000e+00 4.304567e-03 0.000000e+00
##
##
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##
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##
##
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##
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##
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##
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##
##
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##
     [3341,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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##
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##
##
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##
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##
     [3349,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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     [3352,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
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##
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##
##
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##
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     [3358,] 6.196112e-04 8.082031e-03 9.628539e-03 4.102467e-03 6.201984e-04
     [3359,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [3361,] 0.000000e+00 0.000000e+00 2.190225e-03 0.000000e+00 0.000000e+00
##
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##
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##
##
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##
##
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##
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##
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##
##
     [3372,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
##
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##
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##
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##
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##
##
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##
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##
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##
##
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##
##
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##
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```

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##
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##
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     [3411,] 5.480962e-04 2.276902e-03 0.000000e+00 0.000000e+00 5.485582e-04
##
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##
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##
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##
##
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##
     [3417,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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     [3421,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [3423,] 1.952392e-04 5.498655e-03 0.000000e+00 0.000000e+00 1.953029e-04
##
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##
##
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##
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     [3428,] 3.552038e-03 2.432974e-03 0.000000e+00 0.000000e+00 3.570687e-03
##
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##
##
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##
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##
##
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##
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##
##
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     [3438,] 3.775651e-03 5.598924e-03 0.000000e+00 0.000000e+00 3.796715e-03
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     [3439,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [3443,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [3449,] 3.152069e-03 1.035826e-02 1.329680e-02 8.218569e-03 3.166766e-03
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     [3450,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3451,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [3457,] 0.000000e+00 2.786522e-04 2.806509e-03 9.459467e-03 0.000000e+00
##
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     [3459,] 6.083708e-04 0.000000e+00 0.000000e+00 0.000000e+00 6.089373e-04
##
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##
     [3463,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [3468,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
     [3506,] 4.735731e-03 1.685387e-02 1.466840e-02 1.994698e-02 4.768836e-03
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##
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     [3515,] 1.395719e-02 2.357549e-02 2.835831e-02 1.650402e-02 1.424494e-02
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##
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     [3536,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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     [3568,] 7.266706e-03 1.085922e-02 2.065722e-02 1.228654e-02 7.344593e-03
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##
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     [3605,] 0.000000e+00 2.627606e-03 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [3636,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [3702,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [3707,] 0.000000e+00 0.000000e+00 0.000000e+00 2.416920e-03 0.000000e+00
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     [3709,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
     [3716,] 3.778126e-03 5.192527e-04 1.406145e-02 2.398953e-02 3.799218e-03
##
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##
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##
     [3801,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [3804,] 6.215981e-03 3.043737e-05 0.000000e+00 2.485391e-03 6.272979e-03
##
     [3805,] 0.000000e+00 2.795408e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [3806,] 7.161026e-04 0.000000e+00 5.275475e-03 6.455735e-03 7.168825e-04
##
     [3807,] 0.000000e+00 0.000000e+00 3.577295e-03 1.258271e-02 0.000000e+00
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     [3808,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [3811,] 1.897989e-03 6.103352e-05 2.480811e-03 4.440218e-03 1.903345e-03
##
     [3812,] 1.239067e-04 2.955671e-03 3.229096e-03 4.576151e-03 1.239341e-04
##
     [3813,] 3.456095e-03 1.485997e-02 1.596664e-02 1.403423e-02 3.473753e-03
##
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     [3815,] 3.346567e-03 1.090842e-03 7.331983e-03 2.733623e-03 3.363127e-03
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     [3819,] 0.000000e+00 7.170747e-03 1.334888e-02 1.790999e-02 0.000000e+00
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     [3820,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [3823,] 3.379877e-03 3.285501e-03 0.000000e+00 0.000000e+00 3.396767e-03
##
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     [3826,] 1.402204e-02 2.082028e-02 2.609177e-02 1.830788e-02 1.431247e-02
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##
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##
     [3844,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [3846,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
     [3850,] 5.603074e-03 9.268002e-03 6.173657e-03 6.664824e-03 5.649395e-03
##
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##
     [3852,] 0.000000e+00 0.000000e+00 0.000000e+00 6.262635e-03 0.000000e+00
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     [3854,] 8.174083e-04 0.000000e+00 8.965844e-04 4.898549e-03 8.184199e-04
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##
##
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##
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     [3858,] 0.000000e+00 2.700415e-04 0.000000e+00 0.000000e+00 0.000000e+00
     [3859,] 0.000000e+00 5.740667e-03 1.946238e-02 1.960730e-02 0.000000e+00
##
##
     [3860,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3861,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3862,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
##
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##
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##
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     [3871,] 0.000000e+00 1.354349e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
##
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##
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##
##
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##
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##
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     [3894,] 5.413256e-03 1.166314e-02 7.248335e-03 1.103423e-02 5.456495e-03
##
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##
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##
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     [3901,] 2.416643e-03 1.318620e-03 6.441006e-03 1.590617e-02 2.425302e-03
##
##
     [3902,] 4.817735e-03 1.245863e-02 3.327616e-03 2.470245e-03 4.851995e-03
```

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##
##
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     [3907,] 2.129401e-03 3.604232e-04 1.151062e-02 6.083610e-03 2.136133e-03
##
##
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##
##
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     [3911,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3912,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3913,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [3915,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
     [3917,] 5.651516e-03 1.948843e-03 0.000000e+00 0.000000e+00 5.698640e-03
     [3918,] 3.929376e-04 1.395039e-03 7.253485e-03 8.664280e-03 3.931795e-04
##
##
     [3919,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3920,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3921,] 4.836815e-03 7.618779e-03 9.088585e-03 7.831693e-03 4.871346e-03
##
##
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     [3923,] 2.246989e-04 1.508132e-02 2.399142e-02 3.293900e-02 2.247819e-04
##
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##
##
     [3925,] 0.000000e+00 0.000000e+00 0.000000e+00 6.948914e-04 0.000000e+00
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##
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##
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##
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##
##
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     [3932,] 0.000000e+00 0.000000e+00 2.658810e-04 0.000000e+00 0.000000e+00
##
##
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##
##
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     [3936,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
##
     [3940,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
##
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##
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##
     [3947,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
     [3950,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3951,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3952,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
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##
     [3955,] 0.000000e+00 4.791437e-03 9.453677e-03 1.022752e-02 0.000000e+00
##
##
     [3956,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3957,] 0.000000e+00 1.966989e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
##
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##
     [3962,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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##
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##
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##
##
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##
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##
##
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##
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     [3982,] 0.000000e+00 2.591566e-03 1.147203e-02 1.150934e-02 0.000000e+00
##
##
     [3983,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3984,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
     [3986,] 0.000000e+00 0.000000e+00 8.044351e-03 9.269811e-03 0.000000e+00
##
     [3987,] 7.671230e-03 1.060742e-02 1.363494e-02 1.460158e-02 7.758030e-03
     [3988,] 5.920151e-03 5.191558e-03 8.300093e-03 0.000000e+00 5.971857e-03
##
     [3989,] 2.505191e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.514492e-03
##
##
     [3990,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [3992,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3993,] 0.000000e+00 0.000000e+00 8.792223e-04 0.000000e+00 0.000000e+00
##
     [3994,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [3995,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [3996,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [3999,] 1.513033e-02 2.192289e-02 2.711102e-02 2.749799e-02 1.546863e-02
##
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##
     [4001,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4002,] 0.000000e+00 3.776983e-03 5.300049e-03 1.130263e-02 0.000000e+00
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##
     [4007,] 2.081231e-03 8.358287e-03 9.990823e-03 1.345052e-02 2.087664e-03
##
##
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##
     [4009,] 1.370201e-02 3.105141e-03 0.000000e+00 7.288023e-03 1.397931e-02
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     [4010,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [4012,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4013,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [4015,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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     [4018,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4019,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [4021,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
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##
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##
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##
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##
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##
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##
##
     [4052,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
     [4055,] 8.976663e-04 9.156917e-03 8.310962e-03 4.955792e-03 8.988828e-04
##
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     [4057,] 1.308963e-02 9.716693e-03 1.739286e-02 1.840465e-02 1.334265e-02
##
     [4058,] 0.000000e+00 0.000000e+00 1.420289e-03 1.822201e-03 0.000000e+00
##
##
     [4059,] 0.000000e+00 3.484483e-03 0.000000e+00 1.192216e-03 0.000000e+00
##
     [4060,] 0.000000e+00 4.238808e-03 0.000000e+00 7.522054e-03 0.000000e+00
     [4061,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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     [4065,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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     [4071,] 0.000000e+00 3.906524e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
##
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##
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##
     [4077,] 0.000000e+00 6.286539e-04 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [4079,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4080,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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     [4084,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
##
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##
     [4098,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4099,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4100,] 0.000000e+00 7.752290e-04 0.000000e+00 0.000000e+00 0.000000e+00
     [4101,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4102,] 7.806576e-03 9.481593e-03 1.144928e-02 1.884469e-02 7.896466e-03
```

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##
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##
     [4105,] 0.000000e+00 0.000000e+00 0.000000e+00 1.849486e-03 0.000000e+00
##
##
     [4106,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4107,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [4109,] 2.815722e-03 1.215539e-03 2.652906e-03 6.489983e-03 2.827460e-03
##
##
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##
     [4112,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4113,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [4115,] 1.926532e-03 0.000000e+00 0.000000e+00 5.544640e-03 1.932049e-03
##
##
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##
##
     [4119,] 0.000000e+00 0.000000e+00 4.263382e-03 0.000000e+00 0.000000e+00
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##
##
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     [4123,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
     [4125,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
     [4127,] 3.661001e-03 7.806856e-03 6.753967e-03 1.374620e-02 3.680808e-03
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     [4130,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [4132,] 4.601684e-04 2.170357e-03 5.109899e-03 0.000000e+00 4.604970e-04
##
##
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     [4135,] 8.926261e-03 8.043744e-03 1.298046e-02 2.994172e-03 9.043798e-03
##
##
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##
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##
##
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##
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##
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##
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##
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##
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##
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```

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##
     [4155,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [4160,] 2.021520e-03 8.818520e-03 8.854140e-03 7.227591e-03 2.027591e-03
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##
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##
     [4163,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [4165,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
     [4167,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [4169,] 0.000000e+00 0.000000e+00 1.479053e-03 0.000000e+00 0.000000e+00
##
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     [4171,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [4175,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [4181,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4182,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [4184,] 0.000000e+00 3.061843e-03 2.928491e-03 5.313581e-03 0.000000e+00
##
##
     [4185,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [4188,] 2.820063e-03 5.893427e-04 0.000000e+00 0.000000e+00 2.831837e-03
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     [4189,] 1.722286e-02 2.404969e-02 2.486354e-02 2.899391e-02 1.766155e-02
##
##
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     [4196,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
##
     [4202,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
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##
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     [4207,] 6.117788e-03 3.924275e-03 0.000000e+00 0.000000e+00 6.173001e-03
##
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     [4211,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4212,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4213,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [4215,] 1.427527e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.430570e-03
##
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##
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##
##
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##
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     [4221,] 7.831956e-03 1.425313e-02 1.542181e-02 1.896110e-02 7.922431e-03
##
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##
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##
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##
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     [4241,] 5.895886e-03 6.244379e-03 6.959040e-03 1.373786e-02 5.947169e-03
##
##
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     [4243,] 3.577082e-03 1.721535e-03 1.375096e-03 7.535501e-03 3.595994e-03
##
##
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##
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     [4248,] 2.997612e-03 1.206482e-03 0.000000e+00 0.000000e+00 3.010909e-03
##
     [4249,] 3.528847e-03 7.927955e-04 0.000000e+00 0.000000e+00 3.547254e-03
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     [4250,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4251,] 0.000000e+00 3.942620e-04 1.083634e-02 1.306486e-02 0.000000e+00
##
##
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```

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##
##
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     [4259,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [4263,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4264,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4265,] 3.410325e-03 0.000000e+00 0.000000e+00 0.000000e+00 3.427520e-03
##
##
     [4266,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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     [4271,] 3.360473e-03 0.000000e+00 0.000000e+00 0.000000e+00 3.377170e-03
##
##
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##
     [4274,] 1.918444e-04 0.000000e+00 0.000000e+00 0.000000e+00 1.919060e-04
##
##
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##
     [4277,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
##
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##
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##
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##
##
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     [4288,] 4.854835e-03 0.000000e+00 0.000000e+00 0.000000e+00 4.889623e-03
##
##
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##
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##
     [4291,] 5.996943e-03 6.941762e-05 6.825316e-03 3.629441e-03 6.049998e-03
##
     [4292,] 0.000000e+00 7.948402e-04 3.934973e-03 4.416427e-03 0.000000e+00
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##
     [4294,] 6.363170e-03 1.107869e-02 1.953586e-02 1.988959e-02 6.422897e-03
##
##
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     [4296,] 2.681502e-03 6.389238e-04 1.367373e-03 3.558345e-03 2.692152e-03
##
##
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     [4298,] 3.586010e-04 2.106777e-03 0.000000e+00 3.625628e-03 3.588037e-04
##
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     [4301,] 0.000000e+00 0.000000e+00 1.778397e-03 0.000000e+00 0.000000e+00
##
##
     [4302,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
     [4303,] 0.000000e+00 0.000000e+00 9.549682e-04 3.981243e-03 0.000000e+00
     [4304,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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##
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##
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##
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     [4315,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
     [4317,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
     [4319,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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     [4323,] 0.000000e+00 0.000000e+00 0.000000e+00 5.837494e-04 0.000000e+00
##
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##
##
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##
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     [4327,] 5.687481e-03 6.302858e-03 9.413578e-03 1.090192e-02 5.735206e-03
##
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##
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##
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##
##
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##
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##
##
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##
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##
##
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##
     [4346,] 0.000000e+00 0.000000e+00 7.205426e-03 1.567355e-02 0.000000e+00
     [4347,] 1.063553e-02 2.234055e-02 2.933676e-02 1.752131e-02 1.080245e-02
##
##
     [4348,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4349,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4350,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4351,] 1.166245e-03 0.000000e+00 0.000000e+00 1.145197e-03 1.168285e-03
##
     [4352,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
     [4353,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [4355,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4356,] 0.000000e+00 4.711306e-04 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4357,] 0.000000e+00 0.000000e+00 0.000000e+00 9.841270e-04 0.000000e+00
##
##
     [4358,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4359,] 0.000000e+00 3.890881e-03 1.072642e-02 0.000000e+00 0.000000e+00
##
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     [4361,] 0.000000e+00 0.000000e+00 7.144654e-03 6.805476e-03 0.000000e+00
##
     [4362,] 3.389197e-03 1.324598e-02 1.119719e-02 2.061734e-02 3.406181e-03
##
     [4363,] 6.543786e-03 7.781470e-03 1.411737e-02 2.138465e-02 6.606950e-03
##
##
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     [4365,] 3.199899e-03 1.153047e-02 5.719595e-03 6.088355e-03 3.215044e-03
##
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     [4367,] 3.418955e-03 1.658913e-04 3.040120e-03 5.586238e-03 3.436237e-03
     [4368,] 3.330877e-03 4.439171e-03 8.908696e-03 1.049222e-02 3.347283e-03
##
##
     [4369,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4370,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4371,] 0.000000e+00 1.213764e-04 2.072547e-03 1.489859e-03 0.000000e+00
##
##
     [4372,] 0.000000e+00 4.169366e-03 1.452455e-03 1.191573e-02 0.000000e+00
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##
     [4374,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [4379,] 0.000000e+00 0.000000e+00 2.832575e-03 3.841427e-03 0.000000e+00
##
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     [4380,] 0.000000e+00 7.602622e-03 1.299215e-02 1.410825e-02 0.000000e+00
##
     [4381,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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     [4386,] 3.922989e-03 5.118247e-03 3.253302e-04 6.733321e-03 3.945725e-03
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##
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##
##
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##
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##
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     [4393,] 2.862209e-03 7.031024e-03 1.740392e-02 1.687948e-02 2.874337e-03
##
##
     [4394,] 7.179873e-03 6.187971e-03 1.390836e-02 6.675447e-03 7.255909e-03
##
     [4395,] 1.204341e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.206514e-03
     [4396,] 3.810030e-03 0.000000e+00 0.000000e+00 1.974816e-03 3.831478e-03
##
##
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##
     [4398,] 6.843340e-03 8.406258e-05 0.000000e+00 0.000000e+00 6.912417e-03
##
     [4399,] 6.119899e-03 8.421835e-03 4.201674e-03 7.292832e-03 6.175150e-03
##
     [4400,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4401,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4402,] 0.000000e+00 2.727495e-03 3.115852e-03 3.849831e-03 0.000000e+00
```

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##
     [4403,] 4.300335e-04 0.000000e+00 0.000000e+00 0.000000e+00 4.303216e-04
     [4404,] 1.110563e-04 0.000000e+00 0.000000e+00 0.000000e+00 1.110788e-04
##
     [4405,] 0.000000e+00 0.000000e+00 0.000000e+00 6.716431e-03 0.000000e+00
##
##
     [4406,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4407,] 8.182693e-03 3.341325e-03 0.000000e+00 0.000000e+00 8.281455e-03
##
##
     [4408,] 0.000000e+00 7.607536e-03 1.094776e-02 1.343932e-02 0.000000e+00
     [4409,] 0.000000e+00 2.345547e-03 7.085326e-03 9.411628e-03 0.000000e+00
##
##
     [4410,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4411,] 1.660617e-03 6.135007e-03 0.000000e+00 1.026115e-03 1.664725e-03
##
     [4412,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4413,] 4.180229e-03 1.102119e-02 5.620788e-03 1.598556e-02 4.206036e-03
##
##
     [4414,] 0.000000e+00 0.000000e+00 0.000000e+00 7.671102e-04 0.000000e+00
     [4415,] 3.670767e-03 1.013753e-02 1.037614e-02 1.305094e-02 3.690680e-03
##
##
     [4416,] 1.877035e-03 0.000000e+00 0.000000e+00 2.340604e-03 1.882274e-03
##
     [4417,] 1.824220e-03 1.064537e-04 5.977422e-03 6.597753e-03 1.829170e-03
     [4418,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4419,] 8.633877e-04 0.000000e+00 0.000000e+00 0.000000e+00 8.645144e-04
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     [4420,] 1.402846e-03 6.677374e-03 1.143601e-02 7.589272e-03 1.405786e-03
     [4421,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [4423,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4424,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4425,] 1.754199e-03 2.211476e-03 4.128069e-03 8.568505e-03 1.758780e-03
##
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##
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##
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##
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##
##
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     [4432,] 3.616590e-03 0.000000e+00 0.000000e+00 0.000000e+00 3.635921e-03
##
##
     [4433,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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     [4436,] 1.170405e-02 2.626223e-02 2.414609e-02 3.619992e-02 1.190625e-02
##
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##
     [4439,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4440,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4441,] 6.277876e-03 3.709956e-03 3.718466e-03 0.000000e+00 6.336014e-03
##
     [4442,] 0.000000e+00 0.000000e+00 5.670044e-03 3.013306e-03 0.000000e+00
     [4443,] 3.466502e-03 8.004738e-03 1.439199e-03 2.739364e-03 3.484267e-03
##
     [4444,] 7.723652e-03 1.326967e-03 3.812064e-03 1.881019e-02 7.811642e-03
##
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##
     [4446,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4447,] 0.000000e+00 8.844263e-04 3.245391e-04 3.383887e-03 0.000000e+00
##
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##
     [4449,] 7.164557e-03 8.147719e-03 0.000000e+00 1.543755e-04 7.240269e-03
##
     [4450,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4451,] 4.179715e-03 6.535667e-03 2.271168e-02 3.530605e-02 4.205516e-03
##
##
     [4452,] 1.204615e-02 1.988543e-02 2.231430e-02 1.163228e-02 1.226037e-02
```

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##
     [4453,] 7.633545e-03 9.762470e-03 1.493618e-02 2.296734e-02 7.719493e-03
##
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     [4455,] 4.266883e-04 4.637335e-03 1.636345e-03 4.741062e-04 4.269721e-04
##
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##
     [4457,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4458,] 4.327142e-04 3.353394e-04 6.625692e-03 7.821640e-03 4.330058e-04
     [4459,] 5.828947e-03 0.000000e+00 0.000000e+00 6.327846e-03 5.879073e-03
##
##
     [4460,] 1.923421e-03 1.914065e-03 7.574054e-04 5.436370e-03 1.928920e-03
     [4461,] 0.000000e+00 0.000000e+00 2.036351e-03 7.259442e-03 0.000000e+00
##
     [4462,] 4.129749e-04 0.000000e+00 0.000000e+00 0.000000e+00 4.132413e-04
##
     [4463,] 3.019602e-03 2.534981e-03 0.000000e+00 0.000000e+00 3.033094e-03
##
##
     [4464,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4465,] 0.000000e+00 4.686667e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4466,] 0.000000e+00 3.065935e-04 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4467,] 0.000000e+00 0.000000e+00 8.467743e-03 2.187289e-03 0.000000e+00
     [4468,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4469,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4470,] 4.000285e-03 8.378009e-03 1.611130e-02 6.881261e-04 4.023923e-03
     [4471,] 1.272342e-04 0.000000e+00 4.088354e-03 1.768989e-03 1.272630e-04
##
##
     [4472,] 0.000000e+00 8.415402e-03 1.511324e-02 9.706559e-03 0.000000e+00
##
     [4473,] 2.464926e-03 0.000000e+00 9.109128e-03 1.000996e-02 2.473933e-03
     [4474,] 1.899517e-03 0.000000e+00 0.000000e+00 4.914993e-03 1.904882e-03
##
##
     [4475,] 2.533150e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.542659e-03
##
     [4476,] 0.000000e+00 1.013165e-03 0.000000e+00 2.004958e-03 0.000000e+00
     [4477,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4478,] 0.000000e+00 3.441612e-03 4.348581e-03 2.255677e-03 0.000000e+00
     [4479,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
     [4481,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4482,] 5.324111e-03 1.194223e-03 1.021584e-03 0.000000e+00 5.365939e-03
##
##
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     [4484,] 6.754730e-04 2.833253e-03 0.000000e+00 0.000000e+00 6.761684e-04
##
##
     [4485,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4486,] 1.942406e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.948013e-03
##
##
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##
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##
##
     [4490,] 3.722843e-03 6.127820e-03 2.942260e-03 2.128206e-03 3.743323e-03
     [4491,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4492,] 0.000000e+00 0.000000e+00 0.000000e+00 1.919699e-03 0.000000e+00
     [4493,] 3.950440e-05 0.000000e+00 9.132577e-03 5.569915e-03 3.950827e-05
##
##
     [4494,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
##
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##
##
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##
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##
     [4502,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
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     [4504,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4505,] 0.000000e+00 0.000000e+00 0.000000e+00 3.671355e-03 0.000000e+00
##
##
     [4506,] 0.000000e+00 0.000000e+00 7.964680e-04 1.195116e-03 0.000000e+00
     [4507,] 9.113948e-03 1.108251e-02 1.433127e-02 1.807111e-02 9.236483e-03
##
##
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##
##
     [4510,] 3.720783e-03 3.971055e-04 2.092144e-03 1.618515e-02 3.741241e-03
     [4511,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [4512,] 8.733662e-03 1.185590e-02 8.866077e-03 1.724633e-02 8.846179e-03
##
     [4513,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [4515,] 0.000000e+00 0.000000e+00 3.090814e-03 0.000000e+00 0.000000e+00
##
##
     [4516,] 2.971179e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.984244e-03
##
     [4517,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4518,] 9.060990e-04 8.230923e-03 6.285090e-03 1.045967e-02 9.073382e-04
##
##
     [4519,] 5.812698e-03 4.394491e-03 8.876036e-04 6.406785e-03 5.862545e-03
##
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     [4521,] 9.437756e-03 8.679997e-03 8.034752e-03 1.835936e-03 9.569159e-03
##
##
     [4522,] 5.355253e-03 0.000000e+00 0.000000e+00 5.014940e-03 5.397571e-03
     [4523,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4524,] 0.000000e+00 0.000000e+00 0.000000e+00 2.902450e-03 0.000000e+00
##
##
     [4525,] 3.939321e-03 2.319872e-03 8.787373e-04 0.000000e+00 3.962246e-03
     [4526,] 0.000000e+00 6.831477e-03 2.873156e-03 3.914001e-03 0.000000e+00
##
##
     [4527,] 0.000000e+00 4.590451e-03 6.250813e-03 4.028988e-03 0.000000e+00
##
     [4528,] 0.000000e+00 0.000000e+00 7.704909e-03 7.073872e-03 0.000000e+00
     [4529,] 5.216282e-03 0.000000e+00 0.000000e+00 0.000000e+00 5.256434e-03
##
     [4530,] 2.381166e-03 7.516205e-03 0.000000e+00 0.000000e+00 2.389574e-03
##
##
     [4531,] 1.258096e-02 1.782622e-03 2.050031e-03 9.999196e-03 1.281465e-02
     [4532,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4533,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4534,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4535,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4536,] 4.041769e-03 1.018433e-02 0.000000e+00 0.000000e+00 4.065899e-03
##
##
     [4537,] 1.252057e-02 1.204227e-02 1.650320e-02 1.286082e-02 1.275202e-02
     [4538,] 0.000000e+00 0.000000e+00 0.000000e+00 5.333450e-03 0.000000e+00
##
     [4539,] 4.232846e-03 5.431100e-03 3.939458e-03 7.566238e-03 4.259306e-03
##
##
     [4540,] 0.000000e+00 1.954699e-03 0.000000e+00 3.698446e-03 0.000000e+00
     [4541,] 0.000000e+00 1.497691e-03 4.950153e-03 3.252231e-04 0.000000e+00
##
##
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     [4543,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4544,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4545,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4546,] 2.421847e-03 6.005105e-03 7.968026e-03 1.594965e-03 2.430543e-03
##
##
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##
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##
     [4549,] 2.628623e-03 0.000000e+00 0.000000e+00 5.975107e-03 2.638859e-03
##
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##
     [4551,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4552,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
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     [4554,] 1.065097e-02 1.322488e-02 1.605284e-02 1.442813e-02 1.081837e-02
##
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##
     [4556,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4557,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [4559,] 0.000000e+00 0.000000e+00 0.000000e+00 3.799071e-03 0.000000e+00
##
##
     [4560,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4561,] 3.178168e-03 7.117657e-03 0.000000e+00 0.000000e+00 3.193108e-03
##
     [4562,] 9.924854e-04 0.000000e+00 0.000000e+00 0.000000e+00 9.939683e-04
##
     [4563,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [4565,] 0.000000e+00 8.252399e-04 1.454005e-03 0.000000e+00 0.000000e+00
##
##
     [4566,] 0.000000e+00 1.350241e-03 1.255634e-02 1.269503e-02 0.000000e+00
##
     [4567,] 0.000000e+00 0.000000e+00 4.660457e-03 0.000000e+00 0.000000e+00
     [4568,] 1.487453e-03 5.772139e-04 0.000000e+00 0.000000e+00 1.490755e-03
##
##
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##
     [4570,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4571,] 2.245731e-04 5.134279e-03 2.179426e-02 2.998358e-02 2.246560e-04
##
##
     [4572,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [4574,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4575,] 9.107560e-03 1.243576e-02 1.806524e-02 1.338299e-02 9.229923e-03
##
     [4576,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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##
     [4585,] 6.402826e-03 5.649081e-03 6.213398e-03 1.229875e-02 6.463300e-03
##
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     [4587,] 7.727285e-04 1.343846e-02 9.889133e-03 6.404416e-03 7.736342e-04
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##
##
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##
##
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##
##
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     [4597,] 1.095160e-03 8.024838e-03 3.407662e-03 6.502196e-03 1.096961e-03
##
##
     [4598,] 4.513484e-03 2.073529e-03 5.394471e-03 1.425459e-02 4.543560e-03
##
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##
     [4600,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4601,] 4.386018e-03 4.869288e-03 0.000000e+00 0.000000e+00 4.414422e-03
##
     [4602,] 0.000000e+00 0.000000e+00 0.000000e+00 3.836163e-03 0.000000e+00
```

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##
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     [4604,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
     [4607,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
     [4609,] 4.529329e-03 5.503021e-03 8.017628e-03 8.351177e-03 4.559616e-03
##
     [4610,] 1.330298e-02 1.669594e-02 1.423721e-02 2.175830e-02 1.356433e-02
     [4611,] 5.322645e-03 4.927143e-03 0.000000e+00 0.000000e+00 5.364450e-03
##
     [4612,] 0.000000e+00 0.000000e+00 3.560639e-05 0.000000e+00 0.000000e+00
##
     [4613,] 5.405686e-03 7.220520e-03 1.764524e-03 5.369959e-03 5.448804e-03
##
##
     [4614,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4615,] 0.000000e+00 0.000000e+00 4.009496e-03 8.599769e-03 0.000000e+00
##
##
     [4616,] 1.425762e-03 6.455312e-03 7.338037e-03 0.000000e+00 1.428798e-03
##
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     [4618,] 4.806588e-03 4.337311e-03 1.663196e-03 1.339905e-02 4.840689e-03
##
##
     [4619,] 3.937791e-03 1.039880e-03 0.000000e+00 0.000000e+00 3.960698e-03
##
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     [4621,] 3.302704e-03 1.716807e-02 3.629476e-02 3.341371e-02 3.318834e-03
##
##
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##
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##
##
     [4625,] 0.000000e+00 3.316720e-03 0.000000e+00 8.510233e-03 0.000000e+00
     [4626,] 2.371714e-04 8.278161e-03 7.023202e-03 0.000000e+00 2.372633e-04
##
##
     [4627,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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##
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     [4632,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
##
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##
##
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     [4638,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
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##
     [4644,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
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##
     [4649,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [4651,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4652,] 3.088745e-03 8.188504e-03 2.624810e-03 8.035875e-03 3.102860e-03
```

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##
     [4653,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4654,] 2.319760e-03 2.023605e-03 3.262239e-03 4.411634e-03 2.327742e-03
##
     [4655,] 2.654068e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.664502e-03
##
##
     [4656,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4657,] 1.520901e-03 5.435155e-03 1.040683e-02 1.706042e-02 1.524352e-03
##
##
     [4658,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4659,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4660,] 1.145671e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.147640e-03
     [4661,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
##
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     [4665,] 1.025805e-02 1.351137e-02 1.393921e-02 9.407611e-03 1.041332e-02
##
##
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##
     [4667,] 5.513087e-03 1.415039e-02 1.500351e-02 8.445414e-03 5.557933e-03
##
     [4668,] 1.380669e-02 1.684479e-02 1.408005e-02 9.664490e-03 1.408826e-02
##
     [4669,] 8.676839e-04 0.000000e+00 0.000000e+00 7.993520e-03 8.688217e-04
##
     [4670,] 7.479079e-04 2.934199e-03 4.774094e-03 3.074972e-04 7.487573e-04
     [4671,] 0.000000e+00 0.000000e+00 4.367472e-03 0.000000e+00 0.000000e+00
##
##
     [4672,] 6.138996e-03 1.559948e-02 1.013750e-02 1.184399e-02 6.194592e-03
     [4673,] 0.000000e+00 4.495529e-03 9.363468e-03 1.074205e-02 0.000000e+00
##
##
     [4674,] 0.000000e+00 0.000000e+00 0.000000e+00 5.284800e-04 0.000000e+00
##
     [4675,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4676,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4677,] 1.406660e-04 0.000000e+00 0.000000e+00 3.160497e-03 1.407006e-04
##
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##
##
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##
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##
     [4682,] 4.753071e-03 5.745599e-03 6.167284e-04 6.155701e-03 4.786419e-03
##
     [4683,] 0.000000e+00 0.000000e+00 3.424822e-03 1.633307e-03 0.000000e+00
     [4684,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4685,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4686,] 3.071764e-03 0.000000e+00 0.000000e+00 0.000000e+00 3.085724e-03
##
##
     [4687,] 0.000000e+00 0.000000e+00 0.000000e+00 1.003374e-03 0.000000e+00
     [4688,] 0.000000e+00 1.210435e-02 1.065380e-02 1.296785e-02 0.000000e+00
##
##
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##
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##
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     [4693,] 8.437804e-04 2.018442e-03 0.000000e+00 0.000000e+00 8.448572e-04
##
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##
##
     [4695,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4696,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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     [4701,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4702,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
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##
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     [4705,] 0.000000e+00 4.120583e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [4707,] 9.689835e-03 1.668659e-02 1.251635e-02 1.129869e-02 9.828358e-03
##
##
     [4708,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4709,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4710,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4711,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4712,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4713,] 9.853963e-03 9.616792e-03 6.345416e-04 4.018877e-03 9.997224e-03
##
##
     [4714,] 0.000000e+00 0.000000e+00 1.097802e-03 7.509130e-03 0.000000e+00
     [4715,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4716,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4717,] 0.000000e+00 1.398765e-04 0.000000e+00 3.835664e-03 0.000000e+00
##
     [4718,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4719,] 6.891535e-03 9.875338e-03 7.357484e-03 1.019494e-02 6.961588e-03
##
     [4720,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4721,] 6.140624e-03 8.776928e-03 4.747524e-03 5.091590e-03 6.196249e-03
##
##
     [4722,] 0.000000e+00 0.000000e+00 2.252115e-03 0.000000e+00 0.000000e+00
     [4723,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4724,] 0.000000e+00 0.000000e+00 0.000000e+00 8.127371e-04 0.000000e+00
##
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     [4727,] 2.053722e-03 8.699033e-03 1.179683e-02 3.404010e-03 2.059987e-03
     [4728,] 1.216235e-02 2.032582e-02 1.958409e-02 1.865549e-02 1.238073e-02
##
##
     [4729,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [4732,] 0.000000e+00 1.021292e-04 2.515838e-03 1.934476e-02 0.000000e+00
##
##
     [4733,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [4736,] 4.240747e-04 0.000000e+00 2.237522e-03 5.099322e-03 4.243551e-04
##
##
     [4737,] 0.000000e+00 4.972934e-03 7.401043e-03 8.368733e-03 0.000000e+00
     [4738,] 0.000000e+00 0.000000e+00 0.000000e+00 1.261865e-03 0.000000e+00
##
     [4739,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4740,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4741,] 2.059501e-02 2.252701e-02 1.705898e-02 2.470319e-02 2.122317e-02
##
     [4742,] 0.000000e+00 0.000000e+00 0.000000e+00 2.312146e-03 0.000000e+00
     [4743,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4744,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4745,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4746,] 0.000000e+00 3.914421e-03 2.297165e-03 0.000000e+00 0.000000e+00
##
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##
##
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     [4749,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4750,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4751,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4752,] 2.031086e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.037214e-03
##
```

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     [4754,] 0.000000e+00 3.398477e-03 4.197336e-03 0.000000e+00 0.000000e+00
##
     [4755,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4756,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4757,] 2.693852e-03 4.155735e-03 8.110271e-03 5.525863e-03 2.704600e-03
##
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     [4758,] 1.424733e-04 0.000000e+00 0.000000e+00 0.000000e+00 1.425088e-04
     [4759,] 2.424938e-03 4.280001e-03 0.000000e+00 0.000000e+00 2.433656e-03
##
##
     [4760,] 4.940962e-03 1.079583e-02 1.865045e-02 2.531125e-02 4.976993e-03
     [4761,] 6.483765e-04 5.728744e-03 0.000000e+00 0.000000e+00 6.490183e-04
##
     [4762,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4763,] 1.151651e-02 1.833415e-02 4.510016e-03 7.210721e-03 1.171227e-02
##
##
     [4764,] 6.309730e-03 2.387216e-02 1.951203e-02 1.955957e-02 6.368459e-03
     [4765,] 0.000000e+00 2.251159e-04 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4766,] 1.156284e-02 2.182732e-02 1.467944e-02 1.243845e-02 1.176019e-02
##
     [4767,] 1.923084e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.928582e-03
##
     [4768,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4769,] 0.000000e+00 0.000000e+00 0.000000e+00 5.203892e-03 0.000000e+00
##
     [4770,] 0.000000e+00 1.469143e-02 1.869287e-02 1.585924e-02 0.000000e+00
     [4771,] 4.165589e-03 3.125796e-03 0.000000e+00 7.646104e-03 4.191216e-03
##
##
     [4772,] 7.396444e-03 7.242930e-03 2.197844e-02 2.387744e-02 7.477136e-03
     [4773,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4774,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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     [4777,] 0.000000e+00 0.000000e+00 5.387370e-04 0.000000e+00 0.000000e+00
##
##
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     [4779,] 1.230152e-02 5.407016e-03 1.965216e-03 0.000000e+00 1.252493e-02
##
##
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##
     [4781,] 2.024038e-03 1.817241e-02 1.769997e-02 1.504657e-02 2.030124e-03
     [4782,] 1.311589e-03 0.000000e+00 0.000000e+00 4.962213e-03 1.314163e-03
##
##
     [4783,] 0.000000e+00 0.000000e+00 1.752635e-03 7.731208e-03 0.000000e+00
     [4784,] 1.261319e-03 0.000000e+00 9.148066e-04 5.334712e-03 1.263700e-03
##
##
     [4785,] 7.766329e-03 1.434650e-02 1.590340e-02 1.426993e-02 7.855294e-03
     [4786,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4787,] 8.260796e-04 5.050444e-03 4.457563e-03 9.830046e-03 8.271124e-04
     [4788,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4789,] 1.672804e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.676972e-03
##
     [4790,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4791,] 6.682004e-03 2.664003e-03 0.000000e+00 1.806596e-03 6.747864e-03
##
     [4792,] 0.000000e+00 0.000000e+00 0.000000e+00 4.123628e-03 0.000000e+00
     [4793,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4794,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4795,] 8.155858e-03 8.064101e-03 6.980344e-03 0.000000e+00 8.253973e-03
     [4796,] 1.164099e-02 1.057905e-02 1.577550e-02 1.340380e-02 1.184102e-02
##
     [4797,] 3.005975e-03 0.000000e+00 1.329912e-04 1.051861e-03 3.019346e-03
##
##
     [4798,] 9.009992e-03 6.303777e-03 1.209090e-02 1.795732e-04 9.129745e-03
##
     [4799,] 2.121424e-03 1.048663e-02 1.777760e-02 1.340322e-02 2.128106e-03
##
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     [4801,] 7.998325e-04 1.254725e-03 0.000000e+00 0.000000e+00 8.008017e-04
##
##
     [4802,] 0.000000e+00 1.181672e-03 1.190182e-02 5.424979e-03 0.000000e+00
```

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##
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     [4804,] 0.000000e+00 1.082209e-02 4.390710e-03 0.000000e+00 0.000000e+00
##
     [4805,] 4.435802e-03 1.000242e-02 1.228609e-02 1.426632e-02 4.464854e-03
##
##
     [4806,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4807,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4808,] 5.892557e-04 3.632277e-03 1.868299e-03 0.000000e+00 5.897880e-04
     [4809,] 5.773021e-03 0.000000e+00 0.000000e+00 0.000000e+00 5.822191e-03
##
##
     [4810,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4811,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4812,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4813,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4814,] 1.056857e-02 8.614844e-03 1.163197e-03 0.000000e+00 1.073339e-02
     [4815,] 4.000061e-03 1.022804e-02 5.956597e-03 1.305459e-02 4.023697e-03
##
##
     [4816,] 2.682770e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.693430e-03
##
     [4817,] 3.852604e-04 0.000000e+00 0.000000e+00 0.000000e+00 3.854933e-04
     [4818,] 5.968032e-04 1.639447e-03 5.223114e-03 0.000000e+00 5.973488e-04
##
##
     [4819,] 1.231205e-03 4.573656e-03 9.944670e-03 2.557953e-02 1.233476e-03
##
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     [4821,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4822,] 1.080912e-02 6.818147e-03 8.326924e-03 1.244751e-02 1.098154e-02
     [4823,] 0.000000e+00 0.000000e+00 7.190653e-03 0.000000e+00 0.000000e+00
##
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##
##
     [4825,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4826,] 4.501258e-03 8.768518e-03 0.000000e+00 6.775167e-03 4.531172e-03
##
     [4827,] 2.152814e-03 0.000000e+00 1.650833e-03 3.471090e-03 2.159693e-03
##
     [4828,] 0.000000e+00 9.092092e-04 0.000000e+00 0.000000e+00 0.000000e+00
     [4829,] 6.930117e-03 8.782452e-03 1.125641e-02 6.272246e-03 7.000957e-03
##
##
     [4830,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4831,] 3.241451e-04 0.000000e+00 0.000000e+00 0.000000e+00 3.243120e-04
     [4832,] 0.000000e+00 0.000000e+00 0.000000e+00 6.128089e-03 0.000000e+00
##
##
     [4833,] 7.381437e-04 0.000000e+00 0.000000e+00 1.277499e-02 7.389715e-04
     [4834,] 3.880844e-03 5.790794e-03 3.787981e-03 6.576851e-03 3.903095e-03
##
##
     [4835,] 0.000000e+00 0.000000e+00 0.000000e+00 9.111253e-03 0.000000e+00
##
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##
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     [4838,] 4.641555e-03 7.502409e-03 1.890645e-02 1.862474e-02 4.673359e-03
##
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##
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##
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##
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     [4843,] 0.000000e+00 0.000000e+00 3.301011e-03 8.383270e-03 0.000000e+00
##
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##
##
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     [4846,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4847,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
     [4851,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4852,] 0.000000e+00 0.000000e+00 0.000000e+00 2.955978e-03 0.000000e+00
```

```
##
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     [4854,] 1.862125e-03 1.452947e-03 0.000000e+00 0.000000e+00 1.867281e-03
##
     [4855,] 4.264566e-03 2.684831e-03 0.000000e+00 0.000000e+00 4.291422e-03
##
     [4856,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4857,] 1.368607e-03 1.108056e-02 7.091867e-03 0.000000e+00 1.371406e-03
##
##
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##
##
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##
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##
     [4863,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4864,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4865,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4866,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4867,] 0.000000e+00 3.484558e-03 4.177124e-03 6.591180e-03 0.000000e+00
##
     [4868,] 4.811390e-03 3.781200e-03 4.097301e-03 3.376688e-03 4.845559e-03
##
     [4869,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4870,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4871,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4872,] 0.000000e+00 0.000000e+00 0.000000e+00 5.643318e-03 0.000000e+00
     [4873,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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     [4876,] 6.206183e-03 6.477631e-03 5.196427e-03 5.327193e-03 6.263002e-03
##
##
     [4877,] 1.140337e-03 4.374553e-03 1.058713e-02 1.064174e-02 1.142288e-03
##
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##
##
     [4880,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [4882,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [4884,] 6.124894e-03 1.189436e-02 8.163796e-03 1.420604e-02 6.180235e-03
##
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     [4886,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [4888,] 1.202948e-03 0.000000e+00 1.396084e-03 1.165287e-03 1.205116e-03
##
##
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##
     [4890,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4891,] 4.492689e-03 3.892952e-04 0.000000e+00 0.000000e+00 4.522489e-03
##
     [4892,] 0.000000e+00 2.426192e-03 2.860956e-03 3.587308e-03 0.000000e+00
     [4893,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4894,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4895,] 6.433998e-03 0.000000e+00 0.000000e+00 0.000000e+00 6.495062e-03
     [4896,] 8.652872e-04 0.000000e+00 6.201394e-03 7.181262e-03 8.664188e-04
##
     [4897,] 0.000000e+00 0.000000e+00 0.000000e+00 1.598553e-03 0.000000e+00
##
##
     [4898,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4899,] 2.400487e-03 4.443494e-03 2.639124e-03 0.000000e+00 2.409031e-03
##
     [4900,] 3.933282e-03 6.393848e-03 1.321801e-02 1.379206e-02 3.956137e-03
     [4901,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4902,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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     [4904,] 0.000000e+00 0.000000e+00 0.000000e+00 3.494168e-03 0.000000e+00
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     [4905,] 4.853442e-03 0.000000e+00 4.620694e-03 9.397125e-03 4.888211e-03
##
##
     [4906,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4907,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4908,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [4911,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [4912,] 2.225896e-03 1.302895e-02 7.559588e-03 5.422572e-04 2.233248e-03
##
     [4913,] 0.000000e+00 0.000000e+00 3.222599e-03 0.000000e+00 0.000000e+00
##
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     [4915,] 3.935651e-03 1.580309e-03 7.346926e-03 6.042979e-03 3.958533e-03
##
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     [4917,] 0.000000e+00 3.089411e-05 4.218327e-03 0.000000e+00 0.000000e+00
##
     [4918,] 0.000000e+00 0.000000e+00 9.212043e-03 1.329411e-02 0.000000e+00
##
##
     [4919,] 0.000000e+00 1.195506e-03 2.828912e-03 0.000000e+00 0.000000e+00
##
     [4920,] 0.000000e+00 0.000000e+00 2.617674e-03 8.729045e-04 0.000000e+00
     [4921,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [4923,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4924,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [4927,] 2.975681e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.988785e-03
##
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     [4929,] 3.049383e-03 7.396942e-03 1.199881e-02 7.810761e-03 3.063142e-03
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     [4932,] 7.296719e-04 0.000000e+00 0.000000e+00 0.000000e+00 7.304811e-04
##
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     [4933,] 4.276319e-03 6.315666e-03 2.350887e-03 2.048535e-02 4.303323e-03
     [4934,] 3.742731e-03 4.934439e-03 4.875826e-03 4.341558e-04 3.763430e-03
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     [4936,] 0.000000e+00 2.802224e-04 0.000000e+00 0.000000e+00 0.000000e+00
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     [4938,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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     [4941,] 0.000000e+00 0.000000e+00 3.956149e-03 9.877481e-03 0.000000e+00
##
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##
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##
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##
     [4947,] 0.000000e+00 2.922516e-03 4.111332e-03 6.057731e-03 0.000000e+00
##
##
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##
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##
     [4950,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4951,] 6.218066e-03 5.439955e-03 2.137557e-03 5.741271e-04 6.275102e-03
##
     [4952,] 0.000000e+00 0.000000e+00 3.202873e-05 0.000000e+00 0.000000e+00
```

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     [4954,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4955,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4956,] 4.745473e-03 9.740928e-03 8.405765e-03 5.434889e-03 4.778714e-03
##
     [4957,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4958,] 2.239302e-03 8.143122e-04 5.689552e-04 0.000000e+00 2.246743e-03
##
     [4959,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4960,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [4962,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4963,] 2.609084e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.619169e-03
##
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     [4964,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4965,] 1.465970e-03 1.467816e-02 1.794079e-02 1.221891e-02 1.469178e-03
##
##
     [4966,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4967,] 9.625435e-03 1.263643e-02 1.170222e-02 1.207440e-02 9.762122e-03
     [4968,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4969,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4970,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4971,] 4.633823e-04 7.787793e-03 9.174094e-03 1.087817e-02 4.637154e-04
##
##
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     [4973,] 1.877913e-03 6.804216e-03 0.000000e+00 6.481589e-03 1.883157e-03
##
     [4974,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4975,] 0.000000e+00 9.676340e-04 4.699501e-03 7.765209e-03 0.000000e+00
##
##
     [4976,] 0.000000e+00 0.000000e+00 4.079686e-03 0.000000e+00 0.000000e+00
##
     [4977,] 0.000000e+00 1.814123e-05 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4978,] 8.832482e-03 2.912062e-03 5.073429e-03 1.600262e-02 8.947561e-03
##
     [4979,] 1.561101e-04 0.000000e+00 0.000000e+00 0.000000e+00 1.561521e-04
     [4980,] 0.000000e+00 6.579260e-03 1.560568e-02 7.181964e-03 0.000000e+00
##
##
     [4981,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [4982,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
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##
     [4989,] 4.278822e-03 1.572312e-03 0.000000e+00 0.000000e+00 4.305858e-03
##
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##
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##
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##
     [4995,] 4.872533e-03 3.336219e-04 4.467472e-04 1.226856e-02 4.907575e-03
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##
##
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##
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##
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##
     [5002,] 6.725248e-04 2.428298e-03 1.847848e-03 8.938407e-03 6.732143e-04
```

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##
     [5003,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [5005,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [5006,] 9.497369e-03 1.695942e-02 2.657290e-02 2.822505e-02 9.630440e-03
##
     [5007,] 0.000000e+00 0.000000e+00 1.133760e-02 9.347266e-03 0.000000e+00
##
##
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##
     [5009,] 0.000000e+00 0.000000e+00 0.000000e+00 3.878881e-03 0.000000e+00
##
     [5010,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [5011,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [5012,] 4.338410e-03 1.392315e-02 1.140196e-02 2.017308e-02 4.366203e-03
##
     [5013,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [5014,] 1.621012e-03 7.886402e-03 1.035954e-03 0.000000e+00 1.624928e-03
     [5015,] 3.618570e-03 1.709841e-02 1.435403e-02 1.763685e-02 3.637922e-03
##
##
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##
     [5017,] 0.000000e+00 0.000000e+00 1.154765e-03 2.947123e-03 0.000000e+00
##
     [5018,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [5019,] 1.889380e-03 1.329860e-02 4.086922e-03 2.851401e-03 1.894688e-03
##
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     [5021,] 0.000000e+00 2.572936e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [5023,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [5028,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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     [5032,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [5034,] 6.585814e-03 3.701332e-03 3.444479e-03 0.000000e+00 6.649792e-03
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##
##
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##
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##
     [5042,] 1.091698e-03 2.960785e-03 9.443190e-03 6.997283e-03 1.093488e-03
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##
##
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##
##
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##
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##
##
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##
##
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```

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##
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     [5055,] 5.327734e-03 1.809601e-03 0.000000e+00 0.000000e+00 5.369619e-03
##
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##
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     [5059,] 0.000000e+00 0.000000e+00 0.000000e+00 1.135677e-04 0.000000e+00
##
##
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##
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     [5065,] 1.434925e-04 0.000000e+00 0.000000e+00 0.000000e+00 1.435285e-04
##
##
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##
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##
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##
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     [5071,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [5072,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
     [5074,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [5075,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [5076,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [5079,] 1.466075e-03 5.492118e-03 4.701965e-03 1.277440e-03 1.469283e-03
##
##
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##
     [5082,] 0.000000e+00 0.000000e+00 2.117979e-03 2.064074e-03 0.000000e+00
##
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     [5084,] 2.922586e-03 3.737532e-03 0.000000e+00 0.000000e+00 2.935229e-03
##
##
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     [5086,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [5088,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [5092,] 2.962833e-03 2.117818e-03 0.000000e+00 0.000000e+00 2.975824e-03
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##
##
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##
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##
##
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     [5105,] 0.000000e+00 2.271843e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [5107,] 0.000000e+00 0.000000e+00 4.674369e-03 3.453652e-03 0.000000e+00
##
##
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     [5109,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
##
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     [5115,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [5116,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [5118,] 0.000000e+00 3.941199e-03 3.106401e-03 3.348852e-03 0.000000e+00
##
##
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##
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##
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##
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##
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##
     [5144,] 2.532478e-03 7.050840e-03 4.718040e-03 2.688387e-03 2.541983e-03
##
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     [5146,] 2.489599e-03 8.366385e-03 1.209823e-02 1.998141e-02 2.498786e-03
##
##
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##
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##
##
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##
##
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     [5157,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [5159,] 7.775933e-03 0.000000e+00 1.143066e-06 1.170125e-02 7.865119e-03
##
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     [5160,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
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##
##
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##
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##
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##
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##
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##
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##
##
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##
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##
     [5202,] 2.868075e-04 3.357633e-03 8.900282e-03 1.702854e-02 2.869394e-04
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##
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##
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##
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##
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     [5221,] 3.367474e-03 5.200670e-03 8.615868e-03 1.115931e-02 3.384241e-03
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##
##
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##
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     [5252,] 3.205021e-03 1.734695e-03 5.117935e-03 1.438143e-02 3.220214e-03
```

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##
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##
##
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     [5257,] 0.000000e+00 0.000000e+00 0.000000e+00 6.407422e-03 0.000000e+00
##
##
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     [5262,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [5263,] 0.000000e+00 2.207290e-04 6.865598e-04 0.000000e+00 0.000000e+00
##
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     [5264,] 0.000000e+00 3.043376e-03 3.946509e-03 4.700921e-03 0.000000e+00
     [5265,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [5267,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [5271,] 0.000000e+00 0.000000e+00 0.000000e+00 7.219557e-03 0.000000e+00
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##
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##
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##
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     [5297,] 2.201570e-03 4.551496e-05 0.000000e+00 2.332776e-03 2.208764e-03
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     [5299,] 2.832170e-03 2.705620e-04 1.049628e-03 1.350672e-03 2.844045e-03
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     [5300,] 7.338785e-03 0.000000e+00 3.934860e-03 1.167819e-03 7.418224e-03
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     [5301,] 4.171611e-04 7.156880e-03 1.888946e-02 1.249644e-02 4.174327e-04
     [5302,] 2.375855e-03 1.046032e-02 1.383085e-02 1.938593e-02 2.384226e-03
##
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     [5305,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [5307,] 7.879317e-03 7.092119e-03 1.244759e-02 8.378064e-03 7.970890e-03
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     [5308,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [5309,] 9.669722e-03 2.030069e-02 1.788682e-02 1.732144e-02 9.807671e-03
##
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     [5310,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [5311,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [5312,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [5313,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [5314,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [5315,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [5316,] 4.059694e-03 1.330370e-02 3.511191e-03 1.462126e-02 4.084037e-03
##
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##
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##
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##
     [5320,] 0.000000e+00 1.872764e-03 2.558146e-03 8.917497e-03 0.000000e+00
     [5321,] 0.000000e+00 0.000000e+00 8.108126e-03 4.829738e-03 0.000000e+00
##
##
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##
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##
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##
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##
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##
##
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##
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     [5343,] 5.151701e-03 1.338368e-02 7.128950e-03 0.000000e+00 5.190868e-03
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##
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##
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##
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##
##
     [5352,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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     [5359,] 4.485990e-03 2.858683e-03 6.885942e-04 0.000000e+00 4.515702e-03
##
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##
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##
##
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##
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##
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##
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##
     [5370,] 0.000000e+00 0.000000e+00 3.665771e-03 2.282363e-02 0.000000e+00
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##
##
     [5372,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [5373,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
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##
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##
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##
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##
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##
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##
##
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##
##
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     [5404,] 3.826671e-03 4.620435e-03 1.009115e-02 7.467741e-03 3.848307e-03
##
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##
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##
##
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##
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     [5411,] 0.000000e+00 0.000000e+00 2.013197e-03 3.716863e-03 0.000000e+00
##
     [5412,] 2.216220e-03 1.141055e-02 1.672874e-02 2.089399e-02 2.223509e-03
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     [5413,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [5415,] 1.087523e-02 6.054027e-03 2.339943e-04 1.801531e-02 1.104977e-02
##
##
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     [5417,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [5418,] 3.780791e-03 5.235268e-03 8.283972e-03 5.758560e-03 3.801912e-03
##
##
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     [5421,] 1.960908e-03 1.740081e-03 0.000000e+00 5.269519e-03 1.966622e-03
##
##
     [5422,] 0.000000e+00 6.251416e-04 2.176173e-03 4.784741e-03 0.000000e+00
     [5423,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
     [5428,] 0.000000e+00 5.563491e-03 1.299940e-02 1.244730e-02 0.000000e+00
##
     [5429,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [5432,] 3.928886e-03 0.000000e+00 0.000000e+00 0.000000e+00 3.951690e-03
##
##
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     [5435,] 1.072903e-03 8.801329e-03 1.069995e-02 1.395609e-02 1.074633e-03
##
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##
##
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     [5438,] 1.365817e-03 3.390022e-04 0.000000e+00 0.000000e+00 1.368605e-03
##
     [5439,] 5.359447e-03 1.708890e-02 2.048091e-02 1.722453e-02 5.401831e-03
##
##
     [5440,] 2.946712e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.959563e-03
##
     [5441,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [5442,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [5443,] 1.007512e-02 1.271846e-02 5.428449e-03 1.045242e-02 1.022490e-02
##
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##
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     [5448,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [5449,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [5451,] 9.984477e-03 1.386437e-02 1.466705e-02 3.317312e-02 1.013156e-02
     [5452,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [5454,] 0.000000e+00 0.000000e+00 4.760668e-03 6.897580e-03 0.000000e+00
##
     [5455,] 9.166905e-03 1.028943e-03 7.085076e-03 1.502241e-02 9.290869e-03
##
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     [5457,] 2.011721e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.017734e-03
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     [5459,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [5461,] 7.100754e-04 2.903798e-03 3.206756e-03 3.885406e-03 7.108424e-04
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     [5463,] 0.000000e+00 3.416205e-03 0.000000e+00 6.027319e-03 0.000000e+00
##
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     [5465,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
     [5467,] 0.000000e+00 1.149849e-04 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
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##
##
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##
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##
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     [5502,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [5505,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [5507,] 1.359789e-02 0.000000e+00 7.655865e-03 6.283180e-03 1.387099e-02
##
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##
     [5512,] 1.649302e-02 2.736969e-02 1.954320e-02 2.253620e-02 1.689520e-02
##
     [5513,] 1.493156e-02 1.770579e-02 2.844044e-02 2.818415e-02 1.526101e-02
##
##
     [5514,] 6.911920e-05 0.000000e+00 0.000000e+00 0.000000e+00 6.912898e-05
     [5515,] 4.914099e-03 2.800692e-03 0.000000e+00 0.000000e+00 4.949741e-03
##
##
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##
     [5517,] 5.028918e-03 0.000000e+00 8.566536e-05 0.000000e+00 5.066242e-03
     [5518,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
     [5520,] 4.871452e-03 2.676355e-03 5.922355e-03 1.008918e-02 4.906479e-03
     [5521,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [5522,] 0.000000e+00 7.395918e-03 1.082428e-02 1.222785e-02 0.000000e+00
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##
     [5524,] 0.000000e+00 3.421667e-03 0.000000e+00 9.402964e-04 0.000000e+00
##
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##
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##
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##
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     [5532,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
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##
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##
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```

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##
     [5556,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [5557,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [5559,] 4.785532e-03 0.000000e+00 0.000000e+00 0.000000e+00 4.819336e-03
##
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##
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##
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##
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##
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     [5571,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [5572,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [5573,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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##
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##
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     [5581,] 0.000000e+00 1.309619e-04 0.000000e+00 0.000000e+00 0.000000e+00
     [5582,] 5.493814e-03 6.051471e-04 8.339252e-03 0.000000e+00 5.538348e-03
##
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##
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##
##
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##
##
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##
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##
     [5602,] 0.000000e+00 1.737296e-03 4.097902e-03 5.556024e-03 0.000000e+00
##
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##
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##
     [5605,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
##
     [5610,] 0.000000e+00 1.171833e-03 6.579961e-03 1.568067e-03 0.000000e+00
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##
     [5613,] 3.924437e-03 8.057427e-03 8.893529e-03 5.541028e-03 3.947189e-03
##
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     [5615,] 1.528892e-03 0.000000e+00 0.000000e+00 4.466155e-03 1.532378e-03
##
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##
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##
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     [5621,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
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     [5807,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
##
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##
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##
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##
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##
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##
##
     [5914,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [5915,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
     [5917,] 1.237356e-02 8.736133e-03 1.103002e-02 2.555234e-03 1.259960e-02
     [5918,] 0.000000e+00 0.000000e+00 6.253194e-03 0.000000e+00 0.000000e+00
##
##
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##
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     [5921,] 0.000000e+00 0.000000e+00 3.653642e-03 1.231100e-03 0.000000e+00
##
##
     [5922,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
##
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##
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##
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```

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##
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     [5978,] 1.094698e-02 4.380387e-03 1.233890e-03 3.114489e-04 1.112383e-02
##
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     [5984,] 7.188103e-03 0.000000e+00 0.000000e+00 0.000000e+00 7.264314e-03
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##
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     [6061,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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     [6115,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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     [6161,] 1.264559e-02 1.655979e-02 6.626234e-03 5.849706e-03 1.288170e-02
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     [6165,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [6170,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [6173,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [6186,] 0.000000e+00 1.270534e-02 1.253080e-02 1.982695e-02 0.000000e+00
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     [6188,] 0.000000e+00 6.420670e-03 5.175186e-03 5.379587e-03 0.000000e+00
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##
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##
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##
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##
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     [6211,] 0.000000e+00 1.732593e-03 3.897047e-03 1.122116e-02 0.000000e+00
##
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##
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##
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     [6221,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [6223,] 0.000000e+00 0.000000e+00 2.889985e-03 0.000000e+00 0.000000e+00
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##
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##
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##
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     [6252,] 9.628921e-04 0.000000e+00 4.136234e-04 2.067446e-03 9.642890e-04
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##
     [6253,] 9.377935e-03 1.121430e-02 2.196127e-02 9.798321e-03 9.507677e-03
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##
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##
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     [6259,] 0.000000e+00 2.597429e-03 1.784395e-03 7.141588e-03 0.000000e+00
##
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     [6260,] 2.584151e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.594046e-03
     [6261,] 2.003645e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.009610e-03
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##
     [6263,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [6265,] 1.702251e-04 0.000000e+00 0.000000e+00 0.000000e+00 1.702744e-04
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##
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##
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##
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     [6273,] 8.665102e-04 0.000000e+00 0.000000e+00 0.000000e+00 8.676449e-04
##
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     [6276,] 1.195985e-03 8.205528e-03 2.742261e-03 0.000000e+00 1.198128e-03
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##
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##
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##
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##
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##
##
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     [6288,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
##
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```

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##
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##
     [6313,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
##
     [6322,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
     [6324,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
     [6339,] 0.000000e+00 5.160465e-03 9.009514e-04 0.000000e+00 0.000000e+00
##
     [6340,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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     [6344,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [6346,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [6347,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
     [6351,] 0.000000e+00 9.414024e-03 4.942514e-03 0.000000e+00 0.000000e+00
##
     [6352,] 5.305046e-03 3.152793e-03 1.479489e-02 6.192703e-03 5.346575e-03
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##
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##
##
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##
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##
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##
     [6363,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [6365,] 2.193958e-03 6.693578e-04 0.000000e+00 2.941990e-03 2.201101e-03
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##
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##
##
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     [6394,] 6.393765e-03 2.088626e-02 2.340237e-02 2.861739e-02 6.454068e-03
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##
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##
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##
##
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     [6409,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [6411,] 1.544916e-03 3.037430e-03 0.000000e+00 0.000000e+00 1.548476e-03
##
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##
     [6413,] 9.043610e-04 0.000000e+00 0.000000e+00 0.000000e+00 9.055955e-04
##
##
     [6414,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
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     [6421,] 0.000000e+00 0.000000e+00 0.000000e+00 4.393429e-03 0.000000e+00
##
##
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     [6423,] 6.179317e-03 5.459224e-03 1.215700e-02 1.466109e-02 6.235645e-03
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##
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##
##
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##
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##
##
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##
##
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```

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##
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##
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     [6463,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [6471,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
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##
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##
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     [6512,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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     [6715,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [6762,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
##
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```

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##
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##
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##
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##
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##
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     [6888,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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     [6899,] 0.000000e+00 0.000000e+00 0.000000e+00 4.764577e-03 0.000000e+00
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     [6901,] 0.000000e+00 2.161262e-03 6.316540e-03 6.405141e-03 0.000000e+00
##
##
     [6902,] 0.000000e+00 0.000000e+00 4.775129e-03 7.998483e-03 0.000000e+00
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##
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##
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##
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##
##
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##
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     [7065,] 0.000000e+00 5.066699e-03 8.723101e-03 1.985369e-03 0.000000e+00
##
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##
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     [7247,] 3.457968e-03 2.032930e-03 0.000000e+00 0.000000e+00 3.475645e-03
##
##
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##
     [7250,] 3.123010e-03 4.651890e-03 8.197546e-03 1.120015e-02 3.137439e-03
##
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##
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     [7257,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [7259,] 5.942724e-03 1.035291e-02 4.436383e-03 0.000000e+00 5.994824e-03
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##
     [7263,] 7.118004e-03 2.351547e-02 3.348881e-02 2.142483e-02 7.192736e-03
##
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     [7273,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [7315,] 1.408148e-03 1.417530e-03 4.047662e-03 7.325827e-03 1.411110e-03
##
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     [7316,] 0.000000e+00 4.437548e-03 1.113611e-02 1.024304e-02 0.000000e+00
##
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     [7321,] 3.563836e-03 2.245580e-03 5.529164e-03 0.000000e+00 3.582609e-03
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##
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##
##
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##
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##
##
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##
##
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##
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##
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```

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##
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##
##
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##
     [7426,] 2.926486e-03 0.000000e+00 9.868614e-03 8.574917e-03 2.939162e-03
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     [7427,] 1.050161e-02 1.140068e-02 1.609525e-02 1.804450e-02 1.066434e-02
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##
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     [7432,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [7434,] 0.000000e+00 0.000000e+00 7.792999e-03 8.376455e-03 0.000000e+00
##
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     [7436,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [7438,] 0.000000e+00 3.576327e-03 4.590158e-03 1.382661e-03 0.000000e+00
##
##
     [7439,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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     [7447,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [7456,] 0.000000e+00 0.000000e+00 0.000000e+00 1.917387e-03 0.000000e+00
##
     [7457,] 0.000000e+00 8.879269e-04 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
     [7463,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [7465,] 0.000000e+00 0.000000e+00 1.574229e-03 0.000000e+00 0.000000e+00
##
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     [7471,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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     [7477,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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##
     [7502,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
```

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##
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     [7504,] 0.000000e+00 0.000000e+00 2.314615e-04 3.145063e-03 0.000000e+00
##
     [7505,] 0.000000e+00 0.000000e+00 6.064650e-03 0.000000e+00 0.000000e+00
##
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     [7506,] 6.309709e-03 9.235830e-03 1.484157e-02 1.194715e-02 6.368438e-03
     [7507,] 0.000000e+00 4.618966e-04 8.047832e-03 4.104660e-03 0.000000e+00
##
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     [7509,] 6.225770e-04 1.120523e-03 0.000000e+00 3.981242e-03 6.231698e-04
##
##
     [7510,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [7511,] 0.000000e+00 9.196376e-04 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [7513,] 0.000000e+00 0.000000e+00 0.000000e+00 1.333172e-03 0.000000e+00
##
##
     [7514,] 6.144844e-03 0.000000e+00 3.560515e-03 6.158860e-03 6.200546e-03
     [7515,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [7516,] 3.101976e-03 0.000000e+00 0.000000e+00 0.000000e+00 3.116211e-03
##
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##
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     [7521,] 0.000000e+00 0.000000e+00 0.000000e+00 8.340356e-03 0.000000e+00
##
##
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     [7523,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
     [7525,] 6.272054e-03 4.100082e-03 7.715678e-03 1.331180e-02 6.330084e-03
##
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##
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##
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##
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     [7532,] 0.000000e+00 7.585845e-05 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
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##
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     [7546,] 7.852202e-03 0.000000e+00 2.885213e-03 9.648542e-03 7.943146e-03
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##
##
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##
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##
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     [7551,] 7.287373e-03 1.542585e-02 9.577173e-03 1.759899e-02 7.365703e-03
##
##
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```

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##
##
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##
##
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##
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##
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##
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##
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##
##
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##
##
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##
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##
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##
##
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##
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##
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##
##
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##
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##
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##
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##
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##
##
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```

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##
     [7605,] 0.000000e+00 6.516552e-04 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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     [7612,] 2.269897e-03 0.000000e+00 8.839987e-03 2.716570e-04 2.277541e-03
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##
     [7613,] 0.000000e+00 2.854928e-03 0.000000e+00 0.000000e+00 0.000000e+00
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     [7807,] 2.451364e-03 4.929737e-03 8.115845e-03 7.020152e-03 2.460272e-03
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     [7818,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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     [7915,] 0.000000e+00 5.346796e-03 4.709033e-03 0.000000e+00 0.000000e+00
##
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##
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     [7971,] 6.236037e-03 0.000000e+00 0.000000e+00 0.000000e+00 6.293403e-03
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     [7973,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [7984,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [7985,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [7986,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
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##
     [8010,] 3.816029e-03 1.217131e-02 1.940079e-02 1.398890e-02 3.837545e-03
##
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##
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     [8013,] 5.831811e-03 1.719069e-03 0.000000e+00 0.000000e+00 5.881987e-03
##
##
     [8014,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
     [8016,] 0.000000e+00 3.877615e-03 3.321682e-04 0.000000e+00 0.000000e+00
##
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##
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##
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##
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##
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##
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     [8046,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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     [8057,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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     [8061,] 9.256084e-04 0.000000e+00 1.041363e-02 9.720166e-03 9.269006e-04
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##
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##
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     [8065,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
##
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##
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##
##
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##
     [8150,] 0.000000e+00 4.443794e-03 9.338634e-03 1.017152e-02 0.000000e+00
     [8151,] 8.300026e-03 5.657847e-03 1.463633e-02 1.541028e-02 8.401642e-03
##
##
     [8152,] 9.736919e-03 0.000000e+00 0.000000e+00 0.000000e+00 9.876794e-03
```

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##
     [8153,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [8155,] 5.751878e-03 1.722776e-02 2.064530e-02 2.719358e-02 5.800689e-03
##
##
     [8156,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [8157,] 7.202784e-03 2.829072e-03 5.920677e-03 5.167273e-03 7.279306e-03
##
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     [8158,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [8159,] 3.024877e-03 1.813400e-02 2.773267e-02 2.832573e-02 3.038417e-03
##
##
     [8160,] 1.015353e-03 1.033762e-02 1.094243e-03 0.000000e+00 1.016904e-03
     [8161,] 0.000000e+00 2.732023e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
     [8162,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [8163,] 6.620176e-03 9.354580e-03 6.607634e-03 8.146900e-05 6.684823e-03
##
     [8164,] 0.000000e+00 4.484446e-03 0.000000e+00 0.000000e+00 0.000000e+00
     [8165,] 0.000000e+00 6.395718e-03 1.578572e-02 1.353527e-02 0.000000e+00
##
##
     [8166,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [8169,] 6.945196e-03 3.776648e-03 2.549499e-04 0.000000e+00 7.016344e-03
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     [8171,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [8173,] 2.662978e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.673483e-03
##
##
     [8174,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [8176,] 1.646463e-04 4.442848e-03 5.772165e-03 2.028021e-02 1.646926e-04
##
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     [8182,] 2.144559e-04 0.000000e+00 0.000000e+00 0.000000e+00 2.145319e-04
##
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     [8188,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
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##
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##
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##
##
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##
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     [8201,] 3.293853e-03 3.950142e-03 0.000000e+00 0.000000e+00 3.309897e-03
##
##
     [8202,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
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##
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##
##
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##
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     [8209,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
##
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     [8215,] 0.000000e+00 4.676623e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [8216,] 4.328320e-03 6.792011e-03 1.238190e-02 8.372451e-03 4.355983e-03
##
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##
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##
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##
     [8220,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [8221,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [8222,] 4.541764e-03 0.000000e+00 0.000000e+00 0.000000e+00 4.572217e-03
     [8223,] 4.608142e-03 3.427796e-03 0.000000e+00 0.000000e+00 4.639490e-03
##
##
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##
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     [8227,] 4.328722e-03 6.770969e-04 5.412794e-03 1.964506e-02 4.356391e-03
     [8228,] 1.666965e-03 6.905223e-03 1.160484e-02 1.579184e-02 1.671104e-03
##
##
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##
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##
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     [8232,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
##
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     [8238,] 6.762734e-03 0.000000e+00 0.000000e+00 8.092723e-03 6.830194e-03
##
##
     [8239,] 7.246561e-03 9.147374e-03 3.960603e-03 9.572417e-04 7.324017e-03
##
     [8240,] 7.145958e-04 1.613424e-03 5.934755e-03 7.939599e-03 7.153725e-04
##
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##
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##
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##
##
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     [8246,] 0.000000e+00 0.000000e+00 0.000000e+00 2.524177e-03 0.000000e+00
##
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##
     [8248,] 7.667399e-03 7.136614e-03 4.323479e-03 3.910786e-03 7.754111e-03
##
##
     [8249,] 5.228978e-03 7.457549e-03 4.481390e-03 1.073483e-02 5.269326e-03
##
     [8250,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [8251,] 3.956207e-03 7.960204e-03 1.505402e-02 1.424209e-02 3.979328e-03
##
##
     [8252,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
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##
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     [8256,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
##
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     [8265,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [8266,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [8267,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [8268,] 0.000000e+00 9.989531e-04 0.000000e+00 5.027887e-03 0.000000e+00
##
     [8269,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [8270,] 1.217262e-03 6.074363e-03 6.424069e-03 3.582025e-03 1.219482e-03
     [8271,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [8272,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [8273,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
     [8277,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
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##
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##
##
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     [8288,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
     [8290,] 2.087582e-03 5.462834e-03 6.997467e-03 9.508225e-03 2.094053e-03
##
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##
     [8292,] 0.000000e+00 5.350053e-03 1.336624e-02 0.000000e+00 0.000000e+00
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##
##
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##
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##
##
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##
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##
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##
##
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##
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##
##
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     [8311,] 0.000000e+00 1.108505e-02 1.130483e-02 1.015150e-02 0.000000e+00
##
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     [8313,] 4.483167e-03 7.086784e-03 1.841741e-02 2.076442e-02 4.512842e-03
##
##
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##
##
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##
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##
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     [8321,] 0.000000e+00 3.461411e-03 7.761649e-03 6.287751e-03 0.000000e+00
##
##
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##
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##
     [8327,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
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##
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##
##
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##
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##
##
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##
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##
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##
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##
##
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##
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##
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     [8411,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
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     [8418,] 2.297371e-03 4.124846e-03 5.243891e-03 7.575946e-04 2.305200e-03
##
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##
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     [8421,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
##
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##
##
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```

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##
##
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##
##
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     [8515,] 4.133941e-03 6.501179e-03 8.023453e-03 1.283756e-02 4.159181e-03
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     [8521,] 7.593509e-03 4.636586e-03 0.000000e+00 7.431627e-03 7.678559e-03
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     [8523,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [8525,] 0.000000e+00 0.000000e+00 0.000000e+00 2.189093e-03 0.000000e+00
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     [8526,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [8527,] 0.000000e+00 0.000000e+00 4.390689e-04 0.000000e+00 0.000000e+00
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     [8529,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
     [8545,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
     [8547,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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##
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##
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     [8600,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [8601,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [8605,] 0.000000e+00 0.000000e+00 2.953077e-03 6.851814e-05 0.000000e+00
##
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##
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     [8612,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
##
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     [8618,] 0.000000e+00 6.751454e-03 5.419755e-03 2.273302e-03 0.000000e+00
##
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     [8621,] 0.000000e+00 1.268364e-04 3.432965e-03 0.000000e+00 0.000000e+00
##
##
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     [8623,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
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##
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     [8697,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [8698,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [8700,] 3.321053e-04 8.328050e-03 7.104038e-03 6.348678e-03 3.322802e-04
     [8701,] 0.000000e+00 5.444910e-04 1.457861e-03 2.446831e-05 0.000000e+00
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     [8702,] 6.153386e-03 7.810737e-03 7.580045e-03 1.759574e-02 6.209242e-03
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##
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     [8709,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [8711,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [8714,] 0.000000e+00 0.000000e+00 0.000000e+00 3.223580e-04 0.000000e+00
     [8715,] 4.471713e-04 0.000000e+00 3.417356e-04 1.319285e-03 4.474822e-04
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     [8721,] 1.869481e-03 1.036676e-02 1.417862e-02 9.992772e-03 1.874679e-03
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     [8726,] 0.000000e+00 0.000000e+00 1.906323e-04 0.000000e+00 0.000000e+00
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##
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     [8751,] 0.000000e+00 1.494498e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [8755,] 0.000000e+00 6.713592e-03 3.257756e-03 5.030535e-03 0.000000e+00
##
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     [8757,] 6.096395e-03 0.000000e+00 0.000000e+00 0.000000e+00 6.151223e-03
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##
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##
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     [8765,] 0.000000e+00 1.402218e-03 2.233967e-03 0.000000e+00 0.000000e+00
##
##
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     [8767,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [8769,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [8771,] 0.000000e+00 0.000000e+00 0.000000e+00 3.600360e-03 0.000000e+00
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     [8778,] 1.110542e-02 1.322102e-02 1.727923e-02 3.900927e-03 1.128743e-02
     [8779,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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     [8784,] 7.876157e-03 1.801549e-02 1.532690e-02 1.801046e-02 7.967657e-03
##
##
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     [8786,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [8788,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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     [8795,] 1.568553e-03 1.031480e-03 0.000000e+00 0.000000e+00 1.572222e-03
     [8796,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [8797,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [8801,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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```

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     [8804,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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     [8807,] 6.222468e-03 0.000000e+00 0.000000e+00 0.000000e+00 6.279585e-03
##
     [8808,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [8809,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [8810,] 0.000000e+00 1.384916e-03 7.458090e-03 1.634089e-02 0.000000e+00
##
     [8811,] 1.279085e-02 5.500459e-03 9.280022e-03 4.677490e-03 1.303242e-02
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##
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##
##
     [8814,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [8815,] 1.076526e-02 1.625437e-02 1.874178e-02 2.339258e-02 1.093628e-02
##
##
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##
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##
     [8818,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [8819,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [8820,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
     [8822,] 0.000000e+00 0.000000e+00 8.518343e-03 0.000000e+00 0.000000e+00
     [8823,] 4.596214e-03 5.604055e-03 0.000000e+00 0.000000e+00 4.627401e-03
##
##
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##
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##
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##
     [8828,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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##
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     [8832,] 2.112593e-03 7.347626e-03 3.323301e-03 4.130858e-03 2.119219e-03
##
##
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##
##
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##
##
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##
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##
     [8841,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [8842,] 1.766227e-03 2.591473e-03 1.161095e-02 1.104479e-02 1.770870e-03
     [8843,] 3.354566e-03 1.912022e-02 1.366341e-02 1.314763e-02 3.371205e-03
##
     [8844,] 1.004651e-03 1.446523e-03 6.910722e-03 1.723657e-03 1.006170e-03
##
##
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##
##
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##
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##
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##
     [8855,] 4.979518e-03 0.000000e+00 0.000000e+00 0.000000e+00 5.016114e-03
##
##
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##
##
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##
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##
##
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     [8865,] 0.000000e+00 6.782254e-03 8.683421e-03 1.930135e-02 0.000000e+00
##
##
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##
     [8867,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [8868,] 3.338563e-04 3.154282e-03 6.408312e-03 1.089766e-02 3.340329e-04
##
     [8869,] 7.348634e-03 1.258138e-02 1.179887e-02 2.330754e-02 7.428286e-03
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##
##
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##
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     [8876,] 1.161948e-02 0.000000e+00 5.547787e-03 9.372293e-03 1.181876e-02
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##
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##
##
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##
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##
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     [8884,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [8888,] 5.856768e-03 5.891041e-03 3.094561e-03 0.000000e+00 5.907373e-03
##
##
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##
     [8890,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [8892,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [8896,] 5.961596e-03 6.603422e-03 8.752826e-03 2.081480e-02 6.014027e-03
##
##
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##
     [8898,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [8901,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [8907,] 0.000000e+00 0.000000e+00 1.138926e-03 6.455036e-04 0.000000e+00
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     [8909,] 4.450854e-03 2.478988e-03 3.379446e-04 0.000000e+00 4.480103e-03
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##
     [8913,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [8915,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [8923,] 0.000000e+00 6.706704e-03 1.552715e-02 1.575738e-02 0.000000e+00
##
     [8924,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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     [8957,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [8959,] 0.000000e+00 9.181016e-04 5.145725e-03 1.060412e-02 0.000000e+00
##
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     [8961,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [8962,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [8963,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [8964,] 0.000000e+00 6.628685e-05 0.000000e+00 0.000000e+00 0.000000e+00
     [8965,] 0.000000e+00 1.360785e-03 9.950575e-03 5.365429e-04 0.000000e+00
##
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##
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##
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##
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##
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     [8979,] 1.397424e-04 0.000000e+00 0.000000e+00 0.000000e+00 1.397767e-04
##
##
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##
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##
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##
     [9001,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9002,] 0.000000e+00 0.000000e+00 0.000000e+00 1.718260e-03 0.000000e+00
```

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##
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##
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##
     [9013,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
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##
##
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##
##
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##
##
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     [9032,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
     [9061,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [9063,] 5.645248e-03 2.047691e-03 1.263690e-02 2.283347e-02 5.692267e-03
##
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     [9065,] 1.948418e-03 1.459224e-02 1.957903e-02 2.266988e-02 1.954061e-03
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##
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     [9073,] 3.148698e-03 1.260243e-03 1.144400e-02 1.423966e-02 3.163364e-03
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     [9074,] 5.469436e-03 1.142913e-03 0.000000e+00 0.000000e+00 5.513575e-03
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##
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##
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##
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##
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##
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##
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##
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##
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##
     [9149,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [9151,] 0.000000e+00 0.000000e+00 0.000000e+00 1.695731e-03 0.000000e+00
##
##
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##
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##
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##
##
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     [9165,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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     [9171,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
##
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##
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##
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##
     [9202,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
##
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##
##
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##
     [9244,] 0.000000e+00 0.000000e+00 3.982233e-03 7.327326e-03 0.000000e+00
##
     [9245,] 5.359045e-04 0.000000e+00 0.000000e+00 0.000000e+00 5.363466e-04
##
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##
##
     [9247,] 5.062137e-03 5.322009e-03 1.121970e-03 3.418664e-03 5.099955e-03
##
     [9248,] 1.257513e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.259881e-03
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     [9249,] 3.176168e-03 8.119880e-03 1.772314e-02 1.457689e-02 3.191090e-03
##
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     [9251,] 9.629246e-03 2.811736e-03 1.449294e-02 2.714389e-02 9.766041e-03
##
##
     [9252,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
     [9253,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [9255,] 0.000000e+00 9.442911e-04 3.784269e-03 8.547907e-03 0.000000e+00
##
##
     [9256,] 1.031013e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.032611e-03
     [9257,] 5.649682e-03 5.995777e-03 0.000000e+00 0.000000e+00 5.696775e-03
##
##
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     [9259,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9260,] 0.000000e+00 1.746848e-03 5.437683e-03 1.146174e-02 0.000000e+00
##
     [9261,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [9263,] 0.000000e+00 0.000000e+00 0.000000e+00 4.003101e-03 0.000000e+00
##
##
     [9264,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [9265,] 3.462117e-03 6.656265e-03 2.444541e-03 4.809721e-03 3.479836e-03
##
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     [9266,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9267,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9268,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9269,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [9271,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [9273,] 4.511381e-03 8.562780e-03 1.356460e-02 5.881239e-04 4.541430e-03
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     [9277,] 9.798772e-05 0.000000e+00 0.000000e+00 0.000000e+00 9.800572e-05
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##
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##
##
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##
     [9289,] 9.704561e-03 0.000000e+00 0.000000e+00 0.000000e+00 9.843506e-03
##
##
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     [9291,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [9293,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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##
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##
##
     [9298,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9299,] 1.050532e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.052191e-03
##
     [9300,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [9301,] 0.000000e+00 0.000000e+00 0.000000e+00 5.173027e-04 0.000000e+00
##
##
     [9302,] 0.000000e+00 4.011653e-04 0.000000e+00 2.899653e-04 0.000000e+00
```

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     [9304,] 0.000000e+00 0.000000e+00 4.647518e-03 1.251807e-02 0.000000e+00
##
     [9305,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9306,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9307,] 0.000000e+00 8.677709e-04 1.019083e-02 3.012922e-03 0.000000e+00
##
##
     [9308,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [9309,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [9310,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [9312,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9313,] 0.000000e+00 0.000000e+00 0.000000e+00 5.485940e-03 0.000000e+00
##
##
     [9314,] 0.000000e+00 0.000000e+00 0.000000e+00 1.237243e-03 0.000000e+00
     [9315,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [9317,] 5.015326e-03 7.047992e-04 2.592980e-03 9.702245e-03 5.052449e-03
##
     [9318,] 1.361325e-03 0.000000e+00 4.685550e-03 0.000000e+00 1.364095e-03
##
##
     [9319,] 1.402048e-03 3.286396e-03 7.450870e-03 0.000000e+00 1.404985e-03
##
     [9320,] 5.542081e-03 1.745491e-02 3.470290e-02 2.678346e-02 5.587399e-03
     [9321,] 7.266120e-03 1.434852e-02 7.412704e-03 0.000000e+00 7.343994e-03
##
##
     [9322,] 0.000000e+00 7.242875e-04 3.961822e-03 0.000000e+00 0.000000e+00
     [9323,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
     [9325,] 6.564319e-03 9.955866e-03 1.212794e-02 9.697038e-03 6.627880e-03
##
     [9326,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [9329,] 3.806751e-04 1.644690e-03 8.391205e-03 1.013668e-03 3.809027e-04
##
##
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##
##
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     [9334,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [9335,] 7.122350e-03 2.250509e-03 7.856707e-04 0.000000e+00 7.197173e-03
     [9336,] 8.910378e-03 1.215264e-02 7.095535e-03 1.577211e-02 9.027496e-03
##
##
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     [9338,] 7.628584e-03 2.850893e-03 3.226299e-03 5.695190e-03 7.714421e-03
##
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##
##
     [9340,] 7.384496e-03 7.967155e-03 1.970290e-02 3.023713e-02 7.464928e-03
##
     [9341,] 0.000000e+00 3.145952e-04 4.240707e-04 0.000000e+00 0.000000e+00
##
     [9342,] 0.000000e+00 2.439196e-03 0.000000e+00 2.567875e-03 0.000000e+00
     [9343,] 0.000000e+00 0.000000e+00 0.000000e+00 1.844826e-03 0.000000e+00
##
     [9344,] 2.816578e-03 7.183265e-03 1.218173e-02 9.764847e-03 2.828324e-03
##
##
     [9345,] 0.000000e+00 0.000000e+00 0.000000e+00 6.483846e-04 0.000000e+00
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##
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##
     [9348,] 1.532196e-04 3.853996e-03 0.000000e+00 3.002824e-03 1.532602e-04
##
##
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##
##
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```

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##
     [9353,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [9355,] 0.000000e+00 1.048879e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
##
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     [9359,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [9360,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
##
     [9364,] 2.340846e-04 6.740450e-04 9.271016e-05 0.000000e+00 2.341742e-04
     [9365,] 3.672374e-03 0.000000e+00 0.000000e+00 8.150395e-03 3.692304e-03
##
##
     [9366,] 1.766828e-03 2.434694e-03 0.000000e+00 0.000000e+00 1.771474e-03
##
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     [9368,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [9369,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9370,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [9371,] 7.508505e-03 1.102471e-02 1.118915e-02 2.460515e-02 7.591661e-03
##
##
     [9372,] 5.768733e-03 8.961441e-03 3.192881e-03 3.878469e-03 5.817830e-03
     [9373,] 0.000000e+00 3.419353e-03 8.222703e-05 2.603979e-03 0.000000e+00
##
     [9374,] 0.000000e+00 4.145973e-03 2.527476e-03 5.761821e-03 0.000000e+00
##
##
     [9375,] 1.070782e-02 2.312140e-02 2.930917e-02 4.938440e-02 1.087702e-02
##
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##
##
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##
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     [9382,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [9383,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
     [9385,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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##
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##
##
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##
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##
##
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##
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##
##
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     [9399,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [9401,] 1.435841e-03 2.927033e-03 2.714441e-03 3.819434e-03 1.438920e-03
##
##
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     [9404,] 0.000000e+00 3.228439e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9405,] 0.000000e+00 5.990691e-03 1.488729e-02 4.592602e-03 0.000000e+00
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##
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     [9409,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [9411,] 1.719892e-03 1.196932e-02 1.269329e-02 1.353442e-02 1.724296e-03
##
     [9412,] 5.175036e-03 5.792541e-03 1.044815e-02 2.002555e-03 5.214557e-03
##
     [9413,] 3.653727e-03 4.845707e-03 4.565180e-03 0.000000e+00 3.673456e-03
##
##
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##
##
     [9416,] 1.284920e-03 0.000000e+00 2.458194e-03 0.000000e+00 1.287390e-03
     [9417,] 3.671904e-04 9.850755e-03 9.185437e-03 0.000000e+00 3.674026e-04
##
     [9418,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [9419,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9420,] 5.531953e-03 1.044054e-02 4.338342e-03 0.000000e+00 5.577107e-03
     [9421,] 0.000000e+00 2.978235e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [9423,] 8.247980e-04 4.186365e-03 8.693880e-03 1.325022e-02 8.258276e-04
##
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##
##
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##
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##
     [9427,] 1.703519e-03 3.197479e-03 2.131067e-03 0.000000e+00 1.707840e-03
     [9428,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9429,] 2.033497e-03 3.158828e-03 0.000000e+00 0.000000e+00 2.039639e-03
##
     [9430,] 0.000000e+00 0.000000e+00 7.993006e-03 0.000000e+00 0.000000e+00
##
##
     [9431,] 0.000000e+00 1.188181e-02 7.408665e-03 3.069712e-03 0.000000e+00
     [9432,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [9433,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [9434,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [9435,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [9436,] 1.367552e-03 5.605870e-03 2.501180e-05 0.000000e+00 1.370347e-03
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     [9437,] 3.316990e-05 3.941023e-03 0.000000e+00 0.000000e+00 3.317284e-05
     [9438,] 8.921939e-03 5.470232e-03 0.000000e+00 7.066654e-03 9.039362e-03
##
     [9439,] 1.768114e-03 0.000000e+00 4.186143e-03 0.000000e+00 1.772767e-03
##
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     [9440,] 4.483271e-03 8.190429e-05 4.461200e-03 0.000000e+00 4.512947e-03
     [9441,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [9443,] 8.331116e-03 3.566470e-03 3.032610e-03 0.000000e+00 8.433495e-03
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     [9444,] 0.000000e+00 3.592561e-03 2.144378e-03 0.000000e+00 0.000000e+00
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     [9445,] 0.000000e+00 6.280463e-04 5.997847e-04 4.405473e-03 0.000000e+00
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     [9446,] 7.135945e-03 0.000000e+00 0.000000e+00 0.000000e+00 7.211054e-03
##
     [9447,] 7.059901e-03 3.395538e-03 2.413777e-03 0.000000e+00 7.133418e-03
##
##
     [9448,] 1.031542e-02 0.000000e+00 0.000000e+00 0.000000e+00 1.047243e-02
     [9449,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [9455,] 0.000000e+00 0.000000e+00 1.295405e-03 2.940903e-03 0.000000e+00
##
##
     [9456,] 1.007454e-03 7.391903e-03 6.607101e-03 1.148019e-02 1.008981e-03
     [9457,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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     [9460,] 5.296309e-03 1.175128e-03 0.000000e+00 7.519793e-03 5.337702e-03
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     [9461,] 0.000000e+00 1.125032e-04 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9462,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9463,] 0.000000e+00 0.000000e+00 0.000000e+00 3.733698e-03 0.000000e+00
##
##
     [9464,] 0.000000e+00 4.740183e-03 2.947477e-03 8.987805e-03 0.000000e+00
     [9465,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [9466,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9467,] 1.963995e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.969728e-03
     [9468,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [9469,] 1.867891e-03 1.097635e-02 8.714185e-03 1.996756e-02 1.873080e-03
##
     [9470,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [9471,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [9473,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9474,] 2.916713e-03 6.120264e-03 7.618760e-04 4.296503e-03 2.929305e-03
##
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##
     [9477,] 0.000000e+00 2.170629e-03 1.101900e-02 1.055796e-02 0.000000e+00
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     [9478,] 1.817409e-03 5.694697e-03 3.104710e-04 4.442086e-03 1.822322e-03
     [9479,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [9480,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9481,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [9483,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
##
     [9490,] 3.565011e-03 1.041118e-02 1.403435e-02 2.583588e-02 3.583796e-03
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##
##
     [9492,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [9493,] 1.443199e-03 8.664783e-03 7.904103e-03 5.793445e-03 1.446309e-03
##
     [9494,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
##
     [9498,] 0.000000e+00 1.005183e-04 8.987103e-04 4.088806e-04 0.000000e+00
##
     [9499,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9500,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [9501,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [9502,] 2.653495e-03 4.014031e-03 7.551429e-03 0.000000e+00 2.663925e-03
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     [9503,] 6.082939e-03 5.721978e-03 0.000000e+00 0.000000e+00 6.137525e-03
     [9504,] 1.884143e-03 0.000000e+00 6.252101e-03 0.000000e+00 1.889421e-03
##
     [9505,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9506,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9507,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9508,] 4.263630e-04 1.094631e-02 1.942792e-02 1.894209e-02 4.266463e-04
##
     [9509,] 5.209441e-03 6.791704e-03 3.064396e-04 0.000000e+00 5.249489e-03
##
     [9510,] 0.000000e+00 1.581785e-03 4.980809e-03 3.819465e-03 0.000000e+00
##
     [9511,] 1.121741e-03 6.981688e-03 4.901045e-03 0.000000e+00 1.123630e-03
##
     [9512,] 0.000000e+00 0.000000e+00 0.000000e+00 1.004340e-02 0.000000e+00
##
     [9513,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [9514,] 1.442547e-02 1.081824e-02 1.386829e-02 1.445272e-02 1.473291e-02
     [9515,] 5.025210e-03 0.000000e+00 1.231881e-03 8.019111e-03 5.062479e-03
##
##
     [9516,] 1.302543e-03 6.450694e-03 1.398553e-02 1.323787e-02 1.305081e-03
##
     [9517,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [9518,] 1.338447e-03 2.436754e-04 0.000000e+00 1.943845e-03 1.341126e-03
##
##
     [9519,] 3.726980e-05 6.707935e-03 8.613652e-03 7.420906e-03 3.727333e-05
##
     [9520,] 1.399222e-02 1.857355e-02 1.367275e-02 1.281912e-02 1.428142e-02
     [9521,] 8.456482e-04 0.000000e+00 0.000000e+00 0.000000e+00 8.467297e-04
##
##
     [9522,] 1.311386e-04 0.000000e+00 0.000000e+00 0.000000e+00 1.311690e-04
     [9523,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9524,] 1.701440e-03 3.741907e-04 0.000000e+00 3.321609e-03 1.705750e-03
##
##
     [9525,] 0.000000e+00 3.095361e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
     [9529,] 8.831202e-04 1.580397e-03 1.743573e-02 1.713422e-02 8.842981e-04
     [9530,] 3.910846e-03 3.613907e-03 9.297095e-03 1.821082e-02 3.933441e-03
##
##
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     [9532,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
##
     [9537,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [9539,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [9541,] 0.000000e+00 0.000000e+00 2.875102e-04 0.000000e+00 0.000000e+00
##
##
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##
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##
##
     [9545,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [9546,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [9547,] 1.528819e-03 2.157312e-03 3.383579e-03 8.004674e-03 1.532306e-03
##
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##
     [9549,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [9551,] 0.000000e+00 0.000000e+00 7.798198e-03 1.938167e-02 0.000000e+00
##
##
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```

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##
     [9553,] 9.500220e-03 3.609929e-03 3.717521e-03 3.835011e-03 9.633370e-03
     [9554,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9555,] 2.271664e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.279320e-03
##
##
     [9556,] 3.124906e-03 1.463255e-03 0.000000e+00 0.000000e+00 3.139352e-03
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##
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##
##
     [9560,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [9565,] 9.508276e-04 0.000000e+00 0.000000e+00 0.000000e+00 9.521902e-04
##
##
     [9566,] 2.300946e-03 7.477152e-03 4.066755e-03 1.086328e-02 2.308799e-03
##
     [9567,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9568,] 2.295905e-04 6.214598e-04 0.000000e+00 1.451250e-03 2.296770e-04
##
     [9569,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9570,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
     [9572,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [9573,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9574,] 0.000000e+00 8.959704e-04 9.384365e-04 0.000000e+00 0.000000e+00
##
##
     [9575,] 8.664109e-04 2.606366e-03 1.731360e-02 2.591889e-02 8.675453e-04
##
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##
##
     [9578,] 4.680430e-03 6.788566e-03 0.000000e+00 0.000000e+00 4.712768e-03
     [9579,] 0.000000e+00 1.291135e-03 1.329950e-03 0.000000e+00 0.000000e+00
##
##
     [9580,] 0.000000e+00 0.000000e+00 3.547384e-04 4.630680e-03 0.000000e+00
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     [9581,] 1.082440e-02 1.611884e-02 2.567348e-02 1.568347e-02 1.099731e-02
     [9582,] 0.000000e+00 1.132462e-02 1.856600e-02 1.793313e-02 0.000000e+00
##
##
     [9583,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
     [9584,] 9.433684e-03 6.929627e-03 1.593556e-02 1.889360e-02 9.564975e-03
##
##
     [9585,] 5.965838e-03 9.401025e-03 1.316079e-02 5.898108e-03 6.018344e-03
     [9586,] 4.656671e-04 0.000000e+00 0.000000e+00 0.000000e+00 4.660034e-04
##
##
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     [9588,] 6.372374e-03 1.798371e-04 0.000000e+00 0.000000e+00 6.432275e-03
##
     [9589,] 4.286101e-03 5.895840e-03 2.680915e-03 0.000000e+00 4.313229e-03
##
##
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     [9591,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [9593,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
     [9594,] 4.638100e-03 7.189953e-03 7.295921e-03 1.516995e-02 4.669857e-03
##
##
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##
##
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     [9598,] 0.000000e+00 6.523707e-04 3.165892e-03 1.027571e-02 0.000000e+00
##
##
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##
     [9600,] 0.000000e+00 0.000000e+00 5.441379e-04 0.000000e+00 0.000000e+00
     [9601,] 3.980466e-03 5.553824e-03 1.000495e-02 1.904038e-02 4.003871e-03
##
##
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##
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##
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##
##
     [9606,] 5.865788e-04 7.910755e-03 1.660279e-02 8.723929e-03 5.871063e-04
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##
##
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     [9611,] 2.327913e-03 8.738930e-03 6.457392e-03 7.389278e-04 2.335951e-03
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     [9615,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [9618,] 3.280108e-03 6.995701e-03 1.858376e-03 6.134277e-04 3.296020e-03
##
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##
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##
##
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##
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##
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     [9971,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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     [9974,] 0.000000e+00 2.160823e-03 3.925775e-03 0.000000e+00 0.000000e+00
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##
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    [10046,] 4.252218e-03 6.249874e-04 1.274215e-03 8.389905e-03 4.278920e-03
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##
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##
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##
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##
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##
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   [10102,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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##
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##
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##
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##
##
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##
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##
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##
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##
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    [10336,] 0.000000e+00 1.572181e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
    [10338,] 0.000000e+00 0.000000e+00 2.751720e-03 1.072058e-02 0.000000e+00
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##
##
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    [10341,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
    [10342,] 1.935835e-03 1.044732e-02 3.159496e-02 3.507110e-02 1.941405e-03
##
##
    [10343,] 3.941977e-03 0.000000e+00 3.100542e-03 7.922691e-03 3.964932e-03
##
    [10344,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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    [10346,] 9.854713e-03 6.180774e-03 0.000000e+00 0.000000e+00 9.997996e-03
##
##
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##
    [10348,] 2.726420e-03 1.234622e-02 1.076751e-02 2.327303e-02 2.737428e-03
##
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    [10350,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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   [10352,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
##
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    [10357,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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##
    [10360,] 0.000000e+00 2.193270e-03 0.000000e+00 0.000000e+00 0.000000e+00
    [10361,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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    [10363,] 0.000000e+00 3.334093e-03 7.652977e-03 7.655710e-03 0.000000e+00
##
    [10364,] 0.000000e+00 0.000000e+00 1.846055e-03 2.022610e-03 0.000000e+00
##
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##
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##
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##
##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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    [10705,] 0.000000e+00 0.000000e+00 7.741100e-03 0.000000e+00 0.000000e+00
##
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    [10707,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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    [10710,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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    [10712,] 0.000000e+00 0.000000e+00 9.056835e-04 0.000000e+00 0.000000e+00
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    [10714,] 6.735700e-03 1.122750e-02 1.625433e-02 1.574503e-02 6.802622e-03
##
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    [10717,] 0.000000e+00 4.460082e-03 5.147242e-03 0.000000e+00 0.000000e+00
##
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##
##
    [10747,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
    [10749,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
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##
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##
##
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    [10760,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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    [10763,] 0.000000e+00 2.116068e-05 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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##
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##
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    [10776,] 6.858417e-03 6.773006e-03 1.043711e-02 9.098894e-03 6.927799e-03
    [10777,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
##
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    [10827,] 1.241089e-02 9.852669e-03 8.075133e-03 7.228825e-03 1.263830e-02
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##
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##
##
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##
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##
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    [10850,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
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##
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##
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##
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##
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    [10874,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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##
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    [10879,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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##
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##
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##
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##
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##
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    [11100,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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##
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##
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##
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    [11150,] 0.000000e+00 1.942116e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
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    [11155,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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##
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##
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   [11202,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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    [11205,] 4.246325e-03 2.480693e-03 6.116285e-03 2.463365e-03 4.272953e-03
##
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##
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##
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##
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##
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    [11250,] 6.732569e-03 6.612108e-03 1.007521e-02 9.950735e-03 6.799429e-03
##
##
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   [11252,] 8.612872e-03 2.243999e-02 1.056654e-02 7.153893e-03 8.722297e-03
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    [11257,] 0.000000e+00 0.000000e+00 0.000000e+00 2.920034e-03 0.000000e+00
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##
##
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##
    [11260,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
    [11261,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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    [11263,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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##
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##
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##
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##
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##
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    [11300,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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    [11310,] 0.000000e+00 7.653217e-03 7.639151e-03 5.689007e-03 0.000000e+00
##
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##
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    [11317,] 1.946030e-03 7.740019e-03 4.960292e-03 5.686348e-03 1.951659e-03
##
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##
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##
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##
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##
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##
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##
##
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##
##
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    [11421,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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    [11432,] 0.000000e+00 8.656984e-03 3.742998e-03 6.593396e-04 0.000000e+00
    [11433,] 8.465405e-03 0.000000e+00 0.000000e+00 0.000000e+00 8.571112e-03
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    [11434,] 0.000000e+00 2.199330e-03 4.166010e-04 0.000000e+00 0.000000e+00
##
##
    [11435,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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    [11437,] 4.717008e-03 7.185641e-03 7.502810e-03 7.526707e-03 4.749853e-03
##
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##
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    [11441,] 3.324888e-03 0.000000e+00 0.000000e+00 0.000000e+00 3.341235e-03
##
    [11442,] 1.022708e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.024281e-03
##
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    [11443,] 2.731235e-03 5.200154e-03 1.691210e-02 1.825887e-02 2.742282e-03
    [11444,] 0.000000e+00 2.203845e-03 6.048351e-03 6.096640e-03 0.000000e+00
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##
##
    [11447,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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    [11450,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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    [11451,] 0.000000e+00 0.000000e+00 0.000000e+00 8.374063e-04 0.000000e+00
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    [11455,] 1.840970e-03 0.000000e+00 4.993169e-03 0.000000e+00 1.846011e-03
##
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    [11457,] 0.000000e+00 3.943069e-04 5.288995e-03 5.157202e-03 0.000000e+00
##
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##
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    [11463,] 1.078253e-02 1.883246e-02 2.345823e-02 2.497158e-02 1.095410e-02
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    [11467,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
##
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##
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    [11921,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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    [11975,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
    [11976,] 0.000000e+00 0.000000e+00 0.000000e+00 4.767938e-03 0.000000e+00
    [11977,] 5.328284e-03 6.018547e-03 0.000000e+00 3.490396e-04 5.370177e-03
##
##
    [11978,] 8.516693e-03 1.628448e-02 1.721309e-02 1.971689e-02 8.623686e-03
    [11979,] 5.866917e-03 9.247740e-04 1.243231e-02 1.219221e-02 5.917698e-03
##
    [11980,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
    [11981,] 3.185702e-04 0.000000e+00 0.000000e+00 0.000000e+00 3.187316e-04
##
##
    [11982,] 0.000000e+00 1.623160e-03 6.590371e-03 0.000000e+00 0.000000e+00
    [11983,] 7.982745e-03 1.424374e-02 1.989757e-02 1.600814e-02 8.076739e-03
##
    [11984,] 6.339956e-03 6.016879e-03 7.457793e-03 1.203547e-02 6.399249e-03
##
##
    [11985,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
    [11986,] 0.000000e+00 7.107186e-05 0.000000e+00 0.000000e+00 0.000000e+00
##
    [11987,] 2.160874e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.167805e-03
##
    [11988,] 9.595031e-03 1.065789e-02 4.886297e-04 3.951866e-03 9.730855e-03
##
    [11989,] 0.000000e+00 2.024894e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
##
    [11990,] 2.807439e-03 4.193112e-03 1.867975e-02 2.622091e-02 2.819109e-03
    [11991,] 3.845244e-03 1.523462e-02 6.991044e-03 4.602773e-03 3.867089e-03
##
    [11992,] 0.000000e+00 0.000000e+00 1.339632e-03 0.000000e+00 0.000000e+00
##
##
    [11993,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
    [11994,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
    [11995,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
    [11996,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
    [11997,] 2.183831e-03 1.818900e-04 7.346536e-03 1.019961e-02 2.190910e-03
##
    [11998,] 0.000000e+00 3.060203e-03 1.954314e-03 4.692274e-03 0.000000e+00
##
    [11999,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
    [12000,] 4.435900e-03 2.105650e-03 0.000000e+00 0.000000e+00 4.464953e-03
##
    [12001,] 3.793618e-03 0.000000e+00 0.000000e+00 0.000000e+00 3.814883e-03
##
   [12002,] 0.000000e+00 0.000000e+00 4.564897e-04 6.139979e-03 0.000000e+00
```

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##
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##
    [12006,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
    [12007,] 6.187146e-04 0.000000e+00 0.000000e+00 0.000000e+00 6.193002e-04
##
    [12008,] 0.000000e+00 2.495216e-04 2.340592e-03 0.000000e+00 0.000000e+00
##
##
    [12009,] 0.000000e+00 0.000000e+00 5.350358e-04 8.322891e-03 0.000000e+00
##
    [12010,] 0.000000e+00 7.487538e-03 9.379688e-03 5.566093e-03 0.000000e+00
##
    [12011,] 0.000000e+00 7.167260e-03 8.412459e-03 1.121302e-02 0.000000e+00
##
    [12012,] 6.845658e-03 1.306703e-02 2.507597e-03 1.222191e-02 6.914782e-03
##
    [12013,] 7.407896e-03 5.716376e-03 0.000000e+00 5.657216e-04 7.488838e-03
    [12014,] 0.000000e+00 0.000000e+00 1.250709e-03 0.000000e+00 0.000000e+00
##
##
    [12015,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
    [12016,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
    [12017,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
    [12019,] 9.187079e-03 2.684264e-03 0.000000e+00 0.000000e+00 9.311590e-03
##
    [12020,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
    [12023,] 5.904137e-04 0.000000e+00 1.016709e-03 5.537499e-03 5.909480e-04
##
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##
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    [12026,] 0.000000e+00 3.078537e-03 0.000000e+00 3.332095e-03 0.000000e+00
##
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##
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##
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##
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##
##
    [12032,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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    [12036,] 1.329787e-02 1.505211e-02 2.159254e-02 1.099522e-02 1.355902e-02
##
##
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##
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    [12041,] 1.389962e-02 1.874809e-02 1.419433e-02 1.696881e-02 1.418499e-02
##
    [12042,] 0.000000e+00 4.565545e-03 3.867751e-03 0.000000e+00 0.000000e+00
##
##
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##
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##
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    [12046,] 1.754704e-03 7.822422e-03 1.725795e-04 0.000000e+00 1.759287e-03
##
##
    [12047,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
    [12049,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
    [12050,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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   [12052,] 0.000000e+00 2.158439e-03 0.000000e+00 0.000000e+00 0.000000e+00
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[12053,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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    [12055,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
    [12056,] 0.000000e+00 0.000000e+00 0.000000e+00 1.169901e-02 0.000000e+00
    [12057,] 2.990318e-03 3.097971e-03 9.384301e-03 9.077407e-03 3.003551e-03
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##
##
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##
    [12062,] 0.000000e+00 2.694746e-04 0.000000e+00 0.000000e+00 0.000000e+00
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##
    [12064,] 3.540118e-03 2.706121e-03 0.000000e+00 0.000000e+00 3.558642e-03
##
##
    [12065,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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    [12067,] 6.909881e-03 5.471361e-03 4.322650e-03 4.088460e-03 6.980307e-03
##
##
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    [12070,] 1.004714e-02 8.751933e-03 1.274142e-02 9.144278e-03 1.019608e-02
##
    [12071,] 0.000000e+00 0.000000e+00 0.000000e+00 1.493394e-03 0.000000e+00
##
##
    [12072,] 3.245610e-03 0.000000e+00 0.000000e+00 0.000000e+00 3.261189e-03
##
    [12073,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
    [12074,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
    [12075,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
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##
##
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##
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##
##
    [12085,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
##
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##
##
    [12090,] 0.000000e+00 0.000000e+00 7.473850e-03 6.171755e-03 0.000000e+00
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##
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##
##
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##
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##
##
    [12097,] 2.612778e-03 2.831229e-04 0.000000e+00 0.000000e+00 2.622892e-03
##
    [12098,] 0.000000e+00 1.130300e-02 1.118858e-02 1.121417e-02 0.000000e+00
##
    [12099,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
    [12100,] 2.019109e-03 1.430730e-02 1.296246e-02 1.708710e-02 2.025165e-03
##
##
    [12101,] 0.000000e+00 6.154975e-03 5.870787e-03 5.783287e-03 0.000000e+00
   [12102,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
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    [12105,] 1.296814e-02 1.501670e-02 3.001369e-02 4.026172e-02 1.321647e-02
##
##
    [12106,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
    [12107,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
    [12108,] 0.000000e+00 0.000000e+00 3.198848e-04 0.000000e+00 0.000000e+00
##
##
    [12109,] 8.590456e-03 2.482659e-02 2.255868e-02 1.821648e-02 8.699311e-03
##
    [12110,] 1.054234e-02 4.449002e-03 0.000000e+00 0.000000e+00 1.070634e-02
##
    [12111,] 0.000000e+00 2.028808e-03 1.297833e-03 0.000000e+00 0.000000e+00
##
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    [12113,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
    [12114,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
    [12116,] 0.000000e+00 0.000000e+00 8.784464e-03 1.613601e-02 0.000000e+00
    [12117,] 0.000000e+00 0.000000e+00 0.000000e+00 2.956569e-03 0.000000e+00
##
##
    [12118,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
    [12120,] 0.000000e+00 0.000000e+00 0.000000e+00 1.233865e-03 0.000000e+00
    [12121,] 3.064635e-03 2.520545e-03 3.907842e-03 0.000000e+00 3.078531e-03
##
##
    [12122,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
    [12123,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
    [12124,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
    [12125,] 6.705187e-04 0.000000e+00 0.000000e+00 0.000000e+00 6.712042e-04
##
##
    [12126,] 4.610364e-03 1.239402e-02 1.433789e-02 2.292268e-02 4.641742e-03
    [12127,] 0.000000e+00 0.000000e+00 3.797832e-03 0.000000e+00 0.000000e+00
##
##
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##
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    [12130,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
    [12132,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
    [12133,] 0.000000e+00 1.413773e-03 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
    [12135,] 0.000000e+00 0.000000e+00 4.991489e-04 0.000000e+00 0.000000e+00
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##
##
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##
    [12138,] 2.685321e-04 0.000000e+00 6.392595e-04 0.000000e+00 2.686485e-04
    [12139,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
    [12140,] 0.000000e+00 5.368339e-04 5.538960e-03 2.233558e-03 0.000000e+00
    [12141,] 1.247483e-03 0.000000e+00 7.468592e-03 4.883956e-03 1.249814e-03
##
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##
##
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##
    [12144,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
    [12145,] 1.163777e-02 2.098244e-02 1.622666e-02 1.462156e-02 1.183768e-02
    [12146,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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    [12150,] 4.027836e-03 4.188657e-03 3.015788e-03 1.558145e-03 4.051800e-03
##
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   [12152,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
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##
##
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    [12161,] 3.592612e-03 1.207583e-02 1.385139e-02 7.209792e-03 3.611688e-03
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    [12339,] 8.388779e-04 5.625481e-03 4.768957e-04 0.000000e+00 8.399424e-04
##
##
    [12340,] 0.000000e+00 3.895692e-03 7.800739e-03 9.402091e-03 0.000000e+00
##
    [12341,] 8.281862e-03 7.635062e-03 0.000000e+00 0.000000e+00 8.383034e-03
    [12342,] 6.021618e-03 2.407109e-02 3.977578e-02 5.867411e-02 6.075110e-03
##
##
    [12343,] 0.000000e+00 2.784640e-03 6.827851e-03 4.845733e-03 0.000000e+00
##
    [12344,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
    [12345,] 0.000000e+00 2.911005e-03 5.041706e-03 4.002938e-04 0.000000e+00
    [12346,] 5.512356e-04 0.000000e+00 0.000000e+00 0.000000e+00 5.517028e-04
##
##
    [12347,] 7.017809e-03 6.813780e-04 0.000000e+00 0.000000e+00 7.090452e-03
##
    [12348,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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    [12350,] 1.267102e-02 7.225048e-03 2.211359e-03 1.840458e-02 1.290808e-02
##
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    [12358,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
    [12373,] 5.433040e-04 3.181217e-03 2.379108e-03 4.318044e-03 5.437582e-04
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##
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##
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    [12394,] 7.663957e-03 7.163132e-03 0.000000e+00 0.000000e+00 7.750592e-03
##
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    [12396,] 1.752812e-02 1.461127e-02 1.555317e-02 2.386716e-02 1.798255e-02
##
##
    [12397,] 9.407496e-04 6.081553e-03 5.775301e-03 9.179577e-05 9.420838e-04
##
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##
    [12399,] 0.000000e+00 3.942772e-04 0.000000e+00 0.000000e+00 0.000000e+00
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##
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    [12401,] 0.000000e+00 0.000000e+00 2.494214e-03 1.327121e-03 0.000000e+00
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##
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##
##
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##
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##
    [12412,] 0.000000e+00 3.990905e-04 3.653857e-04 0.000000e+00 0.000000e+00
##
    [12413,] 0.000000e+00 2.760700e-03 1.819122e-03 6.437633e-03 0.000000e+00
    [12414,] 3.570428e-03 6.186918e-03 2.563364e-03 0.000000e+00 3.589270e-03
##
##
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##
    [12416,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
    [12417,] 1.216180e-03 0.000000e+00 0.000000e+00 2.408546e-03 1.218396e-03
##
##
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##
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##
    [12421,] 6.560243e-03 1.312952e-02 1.076867e-02 3.049245e-03 6.623726e-03
##
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    [12422,] 0.000000e+00 5.051853e-03 5.144175e-03 6.830484e-04 0.000000e+00
##
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    [12424,] 0.000000e+00 0.000000e+00 3.241962e-03 0.000000e+00 0.000000e+00
##
    [12425,] 1.102692e-02 1.244080e-02 1.826336e-02 2.214510e-02 1.120637e-02
##
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##
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##
    [12428,] 6.375788e-03 9.531093e-03 1.015368e-02 6.138482e-03 6.435752e-03
    [12429,] 1.467990e-02 1.008946e-02 2.877756e-02 4.057589e-02 1.499830e-02
##
    [12430,] 7.408387e-03 6.615883e-03 8.215124e-03 1.133972e-02 7.489340e-03
##
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##
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    [12433,] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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    [12434,] 3.519438e-03 0.000000e+00 4.560599e-04 5.459557e-04 3.537747e-03
##
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    [12436,] 0.000000e+00 0.000000e+00 0.000000e+00 5.426181e-03 0.000000e+00
##
##
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    [12438,] 0.000000e+00 0.000000e+00 0.000000e+00 1.770967e-03 0.000000e+00
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##
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##
##
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##
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##
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##
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##
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##
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##
##
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##
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##
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##
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    [12470,] 2.904280e-03 1.256878e-02 1.172265e-02 1.529583e-02 2.916765e-03
##
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##
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##
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##
                               V3 CORR
                  V2 CORR
                                            V4 CORR
##
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        [2,] 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
##
        [6,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
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##
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##
       [27,] 0.000000e+00 0.000000e+00 0.000000e+00
##
       [28,] 0.000000e+00 0.000000e+00 0.000000e+00
       [29,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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       [39,] 2.150497e-03 7.089676e-05 5.612930e-03
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##
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##
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       [52,] 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
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##
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##
##
     [1098,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1099,] 0.000000e+00 6.142923e-03 3.272206e-04
##
     [1100,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1101,] 3.550387e-03 4.236731e-03 1.017157e-02
     [1102,] 0.000000e+00 0.000000e+00 0.000000e+00
```

```
[1103,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1104,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1105,] 1.783100e-02 2.503589e-02 2.194102e-02
##
     [1106,] 0.000000e+00 8.832258e-03 1.088789e-02
##
     [1107,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1108,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1109,] 4.069370e-03 7.946901e-04 0.000000e+00
##
     [1110,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1111,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1112,] 2.442866e-03 1.458313e-03 5.283908e-04
     [1113,] 1.914747e-02 9.610567e-03 1.500276e-02
##
     [1114,] 0.000000e+00 4.000766e-03 0.000000e+00
##
##
     [1115,] 5.299545e-03 9.977205e-03 6.319341e-03
##
     [1116,] 1.967820e-03 0.000000e+00 0.000000e+00
##
     [1117,] 7.084888e-03 2.038092e-02 3.222406e-02
##
     [1118,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1119,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1120,] 0.000000e+00 1.683866e-03 6.720138e-03
##
     [1121,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1122,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1123,] 1.446487e-03 6.761045e-03 2.663911e-03
##
     [1124,] 0.000000e+00 3.100776e-04 9.908390e-03
##
     [1125,] 1.019603e-02 4.859534e-03 0.000000e+00
##
     [1126,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1127,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1128,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1129,] 0.000000e+00 8.293667e-03 4.852547e-03
     [1130,] 1.243391e-02 3.623573e-03 0.000000e+00
##
##
     [1131,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1132,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [1134,] 0.000000e+00 7.964103e-03 5.354466e-03
##
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     [1135,] 3.288851e-03 0.000000e+00 0.000000e+00
##
     [1136,] 1.667017e-02 2.099844e-02 2.302274e-02
##
     [1137,] 2.228631e-03 0.000000e+00 2.336806e-03
##
     [1138,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [1140,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1141,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1142,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1143,] 0.000000e+00 0.000000e+00 6.699369e-04
##
     [1144,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [1146,] 1.087938e-02 8.712534e-03 9.288030e-03
     [1147,] 2.724918e-03 0.000000e+00 0.000000e+00
##
##
     [1148,] 2.114602e-03 0.000000e+00 0.000000e+00
##
     [1149,] 5.664057e-04 0.000000e+00 0.000000e+00
     [1150,] 4.530024e-03 0.000000e+00 0.000000e+00
##
##
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##
     [1152,] 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
     [1154,] 4.408163e-03 6.097694e-03 5.974696e-03
##
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##
     [1156,] 0.000000e+00 4.063472e-03 1.598358e-02
##
     [1157,] 0.000000e+00 5.671338e-03 9.091309e-03
##
     [1158,] 8.746711e-03 8.599345e-03 5.509089e-03
##
     [1159,] 0.000000e+00 7.076351e-03 1.405931e-02
##
     [1160,] 1.364617e-02 1.580156e-02 1.240117e-02
##
     [1161,] 1.736943e-05 0.000000e+00 0.000000e+00
##
     [1162,] 0.000000e+00 5.381410e-04 1.572622e-02
     [1163,] 2.212861e-02 1.410789e-02 1.077870e-02
##
##
     [1164,] 7.398729e-03 2.164440e-02 2.437350e-02
##
     [1165,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1166,] 1.292283e-02 2.086742e-02 2.707379e-02
##
     [1167,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1168,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [1170,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1171,] 1.398532e-02 5.461832e-03 4.973101e-03
##
     [1172,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1173,] 0.000000e+00 1.405668e-03 7.179480e-04
##
     [1174,] 3.813958e-03 8.890525e-03 2.164012e-02
##
     [1175,] 7.826260e-03 1.021573e-02 6.716082e-03
##
     [1176,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1177,] 4.755753e-03 0.000000e+00 0.000000e+00
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##
     [1179,] 6.420154e-03 1.060160e-02 7.856228e-03
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##
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##
     [1182,] 1.552513e-03 0.000000e+00 0.000000e+00
##
     [1183,] 0.000000e+00 0.000000e+00 0.000000e+00
     [1184,] 1.763532e-03 1.676501e-03 0.000000e+00
##
##
     [1185,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1186,] 1.497870e-03 0.000000e+00 4.843595e-03
##
     [1187,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1188,] 0.000000e+00 0.000000e+00 0.000000e+00
     [1189,] 1.120258e-02 1.876514e-02 1.858117e-02
##
##
     [1190,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1191,] 4.592022e-03 0.000000e+00 3.952013e-03
##
     [1192,] 6.114874e-03 6.082136e-03 2.281628e-02
##
     [1193,] 1.999844e-03 0.000000e+00 2.080258e-03
##
     [1194,] 2.251718e-02 1.800985e-02 2.128696e-02
##
     [1195,] 9.207351e-03 7.110301e-03 3.013074e-03
##
     [1196,] 0.000000e+00 0.000000e+00 0.000000e+00
     [1197,] 9.242059e-03 1.812569e-02 4.238339e-02
##
##
     [1198,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1199,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1200,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1201,] 0.000000e+00 1.053932e-02 5.194325e-03
     [1202,] 2.259504e-02 2.020457e-02 2.432944e-02
```

```
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##
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     [1204,] 8.387394e-03 1.439737e-02 1.237095e-02
##
     [1205,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [1207,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1208,] 0.000000e+00 0.000000e+00 0.000000e+00
     [1209,] 5.852044e-03 0.000000e+00 6.093162e-03
##
##
     [1210,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1211,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1212,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1213,] 0.000000e+00 0.000000e+00 0.000000e+00
     [1214, ] 7.014118e-03 6.104985e-03 5.260528e-03
##
##
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##
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##
     [1217,] 1.021948e-02 7.503885e-03 1.100678e-02
##
     [1218,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1219,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1220,] 0.000000e+00 0.000000e+00 2.221701e-03
##
     [1221,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1222,] 0.000000e+00 0.000000e+00 3.203766e-03
##
     [1223,] 2.505264e-03 4.732073e-03 0.000000e+00
##
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##
     [1225,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1226,] 1.135279e-03 1.074504e-02 4.033453e-03
##
     [1227,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1228,] 0.000000e+00 9.467249e-03 2.207596e-03
##
     [1229,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1230,] 8.466792e-04 0.000000e+00 0.000000e+00
##
     [1231,] 0.000000e+00 0.000000e+00 2.297163e-03
##
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##
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##
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##
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##
     [1236,] 3.423810e-04 3.739097e-03 0.000000e+00
##
     [1237,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1238,] 0.000000e+00 0.000000e+00 0.000000e+00
     [1239,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1240,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1241,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1242,] 9.354895e-03 9.000909e-03 6.947461e-03
##
     [1243,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1244,] 9.257815e-03 7.751909e-03 3.691231e-03
##
     [1245,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1246,] 0.000000e+00 0.000000e+00 0.000000e+00
     [1247,] 7.753213e-03 3.021859e-03 0.000000e+00
##
##
     [1248,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1249,] 0.000000e+00 0.000000e+00 0.000000e+00
     [1250,] 2.586275e-02 3.049900e-02 4.201507e-02
##
##
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     [1252,] 3.998441e-03 1.232790e-02 9.049392e-03
```

```
##
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##
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     [1256,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1257,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1258,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
     [1260,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [1262,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1263,] 5.919066e-04 0.000000e+00 0.000000e+00
     [1264,] 1.625943e-03 0.000000e+00 0.000000e+00
##
##
     [1265,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1266,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1267,] 1.549633e-02 1.874009e-02 1.577765e-02
##
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##
     [1269,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1270,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1271,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1272,] 3.857658e-03 1.949266e-02 2.565527e-02
##
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##
     [1274,] 0.000000e+00 7.035349e-03 0.000000e+00
##
     [1275,] 4.304739e-03 3.749523e-03 4.865398e-03
##
     [1276,] 0.000000e+00 1.535433e-03 1.220207e-02
##
     [1277,] 2.515162e-02 2.149224e-02 3.289470e-02
##
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##
     [1279,] 0.000000e+00 0.000000e+00 0.000000e+00
     [1280,] 3.064331e-03 0.000000e+00 0.000000e+00
##
##
     [1281,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [1283,] 0.000000e+00 1.657057e-03 0.000000e+00
     [1284,] 0.000000e+00 4.952022e-03 1.773579e-02
##
##
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##
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##
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##
     [1288,] 0.000000e+00 0.000000e+00 0.000000e+00
     [1289,] 7.894589e-04 7.464911e-03 7.137507e-03
##
##
     [1290,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1291,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [1293,] 1.464340e-02 6.884976e-03 1.094727e-02
##
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##
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     [1297,] 4.782893e-04 1.023316e-02 1.050602e-02
##
##
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##
     [1299,] 5.386450e-03 9.976016e-03 1.476936e-02
##
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##
     [1301,] 1.240949e-03 2.974598e-03 8.404380e-03
     [1302,] 5.926006e-03 2.926763e-03 1.227835e-02
```

```
##
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##
     [1304,] 7.327613e-03 7.029297e-03 0.000000e+00
##
     [1305,] 0.000000e+00 2.125739e-03 3.355638e-03
##
     [1306,] 7.069670e-03 6.544446e-03 7.279594e-03
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##
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##
     [1309,] 0.000000e+00 4.593769e-04 1.381921e-03
##
     [1310,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1311,] 1.018383e-02 1.151023e-02 1.511664e-02
##
     [1312,] 0.000000e+00 0.000000e+00 0.000000e+00
     [1313,] 0.000000e+00 4.397905e-04 0.000000e+00
##
     [1314,] 8.148114e-03 5.106795e-03 2.867843e-03
##
##
     [1315,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1316,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [1318,] 0.000000e+00 2.127884e-03 1.238187e-02
##
     [1319,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1320,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1321,] 1.520727e-03 7.588784e-03 5.221126e-03
##
     [1322,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
     [1325,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [1330,] 3.306599e-03 1.561531e-03 0.000000e+00
##
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##
     [1334,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1335,] 0.000000e+00 4.142689e-03 6.085290e-03
##
     [1336,] 3.649462e-03 5.602133e-03 1.026703e-02
##
     [1337,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [1339,] 6.518568e-03 1.055695e-03 0.000000e+00
##
##
     [1340,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [1341,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
     [1344,] 1.353601e-02 2.366709e-02 4.717189e-02
##
     [1345,] 4.696136e-03 1.743157e-02 1.457287e-02
##
     [1346,] 4.020588e-03 8.698903e-03 8.459211e-03
     [1347,] 1.974264e-03 1.369667e-02 1.854252e-02
##
##
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##
     [1349,] 1.331279e-03 0.000000e+00 0.000000e+00
     [1350,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1351,] 7.693679e-03 8.890116e-03 1.147928e-02
##
     [1352,] 5.852595e-04 0.000000e+00 0.000000e+00
```

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[1353,] 7.288390e-03 1.144153e-02 1.267169e-02
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##
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     [1356,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [1357,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [1402,] 2.817500e-03 2.419823e-03 4.353328e-04
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##
     [1512,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
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##
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##
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##
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##
##
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##
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##
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     [1889,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [1894,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [1895,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [1896,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [1900,] 6.673218e-03 5.675244e-03 0.000000e+00
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     [1902,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
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```

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##
     [2144,] 7.631066e-03 1.917487e-02 2.389182e-02
##
     [2145,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2146,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2147,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2148,] 0.000000e+00 1.401071e-02 1.366205e-02
##
     [2149,] 1.595637e-02 1.764480e-02 1.640683e-02
##
     [2150,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2151,] 2.513617e-03 5.666889e-03 0.000000e+00
##
     [2152,] 0.000000e+00 0.000000e+00 0.000000e+00
```

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[2153,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2154,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2155,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2156,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2157,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2158,] 2.306873e-03 0.000000e+00 3.694990e-04
##
     [2159,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2160,] 0.000000e+00 0.000000e+00 4.254279e-03
##
     [2161,] 1.642069e-02 1.272051e-02 1.412606e-02
##
     [2162,] 1.093384e-02 2.904393e-02 1.633968e-02
     [2163,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [2166,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [2168,] 4.243855e-03 0.000000e+00 0.000000e+00
##
     [2169,] 0.000000e+00 1.040491e-02 1.065057e-02
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     [2170,] 1.919618e-02 2.274128e-02 3.090195e-02
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     [2172,] 0.000000e+00 2.727274e-04 0.000000e+00
##
     [2173,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [2175,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2176,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [2181,] 0.000000e+00 2.061582e-04 1.556091e-02
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##
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     [2184,] 1.089088e-02 4.025173e-03 1.121320e-02
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     [2186,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
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##
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##
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##
     [2197,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2198,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2199,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2200,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2201,] 4.706644e-03 5.185599e-03 2.819902e-03
     [2202,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [2205,] 0.000000e+00 0.000000e+00 7.084083e-06
##
     [2206,] 1.335520e-02 2.515317e-02 3.802534e-03
##
     [2207,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2208,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2209,] 0.000000e+00 2.431604e-03 1.302199e-03
##
     [2210,] 1.156008e-02 7.144030e-03 9.418986e-04
##
     [2211,] 1.941366e-02 2.062749e-02 2.377923e-02
##
     [2212,] 8.264665e-03 4.185773e-04 4.496940e-04
##
     [2213,] 3.789420e-03 8.174670e-03 6.269366e-03
     [2214,] 9.512147e-03 9.591875e-03 5.543429e-03
##
##
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##
     [2216,] 0.000000e+00 2.913053e-03 0.000000e+00
##
     [2217,] 1.645802e-02 7.201177e-04 0.000000e+00
##
     [2218,] 0.000000e+00 1.016976e-04 0.000000e+00
##
     [2219,] 3.849736e-03 7.481957e-03 2.191814e-03
##
     [2220,] 4.112693e-03 1.119110e-02 1.390466e-02
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##
     [2222,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [2224,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2225,] 4.642551e-03 2.137430e-03 0.000000e+00
##
##
     [2226,] 0.000000e+00 0.000000e+00 4.268679e-03
##
     [2227,] 4.003910e-04 0.000000e+00 0.000000e+00
##
     [2228,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
     [2232,] 7.984400e-03 9.651458e-03 9.667921e-03
##
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##
     [2234,] 6.981581e-03 4.933341e-03 0.000000e+00
##
     [2235,] 7.523007e-03 6.910373e-03 9.840944e-03
##
     [2236,] 0.000000e+00 0.000000e+00 1.621941e-04
##
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##
     [2238,] 0.000000e+00 1.128070e-03 9.033522e-03
     [2239,] 0.000000e+00 8.203739e-03 0.000000e+00
##
##
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##
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##
     [2242,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2243,] 0.000000e+00 6.628405e-03 7.778427e-03
##
     [2244,] 1.629487e-03 6.416394e-03 4.807839e-03
##
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##
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     [2247,] 1.090612e-02 6.178960e-03 1.106941e-02
##
##
     [2248,] 2.850578e-03 8.357348e-03 1.343269e-02
##
     [2249,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
     [2251,] 1.025596e-02 9.073246e-04 9.983910e-03
     [2252,] 0.000000e+00 3.319731e-03 2.768567e-03
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```
[2253,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2254,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [2256,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
     [2259,] 1.191029e-03 0.000000e+00 0.000000e+00
##
     [2260,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2261,] 1.192594e-02 6.702090e-03 1.894408e-03
##
     [2262,] 0.000000e+00 9.907362e-04 2.407669e-03
     [2263,] 2.079709e-03 8.136805e-03 6.747921e-03
##
     [2264,] 1.065661e-02 2.980414e-03 9.001073e-04
##
##
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##
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##
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##
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##
     [2269,] 3.023272e-03 6.751160e-03 1.163982e-02
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##
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##
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##
     [2274,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
     [2276,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2277,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2278,] 0.000000e+00 0.000000e+00 6.732807e-03
##
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     [2280,] 0.000000e+00 1.574414e-03 5.738748e-04
##
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##
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##
     [2284,] 1.145662e-02 1.554561e-02 1.473348e-02
##
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##
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##
     [2287,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [2289,] 6.604831e-03 1.818301e-03 0.000000e+00
##
##
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##
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##
     [2292,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2293,] 0.000000e+00 0.000000e+00 2.572667e-03
##
     [2294,] 0.000000e+00 2.368231e-03 8.935559e-03
##
     [2295,] 0.000000e+00 1.013360e-02 1.333229e-02
##
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##
     [2297,] 1.276294e-03 5.555211e-03 7.746301e-03
##
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##
     [2299,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2300,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [2302,] 7.998288e-04 1.246353e-02 1.113291e-02
```

```
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##
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##
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##
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     [2309,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2310,] 0.000000e+00 2.296049e-03 2.447676e-04
##
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     [2312,] 4.685689e-03 1.025821e-02 1.098732e-02
     [2313,] 1.533765e-02 1.569994e-02 1.747346e-02
##
##
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##
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##
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##
     [2317,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
     [2325,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
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##
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##
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##
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##
##
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##
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##
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##
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##
##
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##
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##
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     [2351,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2352,] 0.000000e+00 0.000000e+00 0.000000e+00
```

```
##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
     [2381,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
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##
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##
     [2394,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2395,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2396,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [2398,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2399,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2400,] 6.346034e-03 1.159125e-02 1.959216e-02
##
##
     [2401,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2402,] 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
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##
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##
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     [2664,] 1.156600e-02 1.278163e-02 1.449961e-02
##
##
     [2665,] 4.525571e-03 1.124546e-03 0.000000e+00
##
     [2666,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2667,] 4.431804e-04 0.000000e+00 6.670439e-05
##
     [2668,] 5.074837e-04 0.000000e+00 0.000000e+00
##
     [2669,] 1.359653e-02 1.036004e-02 8.075311e-03
##
     [2670,] 0.000000e+00 0.000000e+00 9.233731e-03
##
     [2671,] 8.484907e-03 1.694787e-03 6.858182e-03
##
     [2672,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2673,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2674,] 2.656513e-03 6.318629e-03 8.299418e-03
##
     [2675,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2676,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2677,] 3.353323e-03 4.617942e-03 1.023397e-02
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     [2678,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2679,] 4.190021e-03 3.136273e-03 4.485204e-03
##
     [2680,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2681,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2682,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2683,] 8.327574e-03 3.264148e-04 8.783911e-03
     [2684,] 1.721243e-04 6.875979e-03 7.985102e-03
##
##
     [2685,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2686,] 1.732847e-04 0.000000e+00 1.328530e-03
##
     [2687,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2688,] 1.829937e-02 2.477044e-02 2.367668e-02
     [2689,] 5.865369e-03 0.000000e+00 0.000000e+00
##
##
     [2690,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2691,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [2693,] 3.033679e-03 0.000000e+00 0.000000e+00
##
     [2694,] 1.085542e-02 1.368059e-02 1.018826e-02
##
     [2695,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2696,] 2.966498e-03 5.654632e-03 1.927413e-03
##
##
     [2697,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2698,] 6.505808e-03 2.821551e-04 6.524028e-03
##
     [2699,] 2.335903e-03 0.000000e+00 9.424935e-03
     [2700,] 8.577459e-03 2.634856e-02 3.041010e-02
##
##
     [2701,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2702,] 0.000000e+00 3.032623e-03 1.240566e-02
```

```
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     [2706,] 0.000000e+00 3.417093e-03 0.000000e+00
##
     [2707,] 1.445344e-02 2.192468e-02 2.969480e-02
##
     [2708,] 2.309084e-03 0.000000e+00 0.000000e+00
##
     [2709,] 9.346719e-03 1.656240e-02 1.506069e-02
##
     [2710,] 0.000000e+00 1.661118e-03 1.149603e-03
##
     [2711,] 1.237384e-04 8.785091e-04 0.000000e+00
##
     [2712,] 8.668361e-04 0.000000e+00 0.000000e+00
     [2713,] 1.925173e-02 3.394577e-02 3.847366e-02
##
##
     [2714,] 0.000000e+00 1.375939e-03 1.546471e-03
##
     [2715,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2716,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [2718,] 5.917856e-03 2.050242e-03 3.467709e-03
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     [2721,] 6.254591e-03 1.075836e-02 2.666082e-02
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     [2722,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2723,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2724,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2725,] 1.234682e-02 5.016704e-04 0.000000e+00
##
##
     [2726,] 0.000000e+00 0.000000e+00 6.232395e-04
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     [2728,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [2730,] 9.716252e-03 1.329247e-02 3.215992e-03
##
     [2731,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2732,] 9.879612e-03 6.480254e-03 9.957977e-03
##
     [2733,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2734,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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     [2736,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [2738,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2739,] 0.000000e+00 1.888576e-03 0.000000e+00
##
##
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     [2746,] 1.937337e-02 5.710411e-03 0.000000e+00
##
     [2747,] 1.782159e-02 1.838596e-02 1.436592e-02
##
##
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##
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##
     [2750,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2751,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2752,] 0.000000e+00 0.000000e+00 0.000000e+00
```

```
[2753,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2754,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2755,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2756,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2757,] 0.000000e+00 0.000000e+00 1.012648e-02
##
     [2758,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2759,] 2.098504e-02 1.907466e-02 2.781569e-02
##
     [2760,] 5.968217e-04 8.796976e-03 7.022338e-03
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##
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##
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##
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##
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##
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     [2769,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [2771,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2772,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [2773,] 0.000000e+00 0.000000e+00 6.866083e-03
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##
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##
     [2776,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2777,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2778,] 3.425158e-03 6.531673e-04 8.436195e-03
##
     [2779,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2780,] 0.000000e+00 9.531054e-04 0.000000e+00
##
##
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##
     [2782,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2783,] 1.969932e-03 5.758673e-03 9.477559e-03
##
     [2784,] 1.033740e-03 1.113017e-03 6.196550e-03
##
     [2785,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [2787,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2788,] 3.954286e-03 2.255545e-03 0.000000e+00
     [2789,] 0.000000e+00 8.584204e-03 1.380289e-02
##
##
     [2790,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2791,] 1.164254e-02 1.581740e-02 9.021170e-03
##
##
     [2792,] 3.978185e-03 0.000000e+00 0.000000e+00
##
     [2793,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2794,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2795,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2796,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2797,] 1.422370e-05 0.000000e+00 0.000000e+00
##
##
     [2798,] 0.000000e+00 7.937690e-03 1.560336e-03
##
     [2799,] 2.927805e-03 1.921575e-03 0.000000e+00
##
     [2800,] 1.039305e-03 0.000000e+00 0.000000e+00
##
     [2801,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2802,] 2.374688e-03 6.023600e-03 1.168377e-02
```

```
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##
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     [2804,] 4.954261e-03 1.902621e-03 2.890624e-03
##
     [2805,] 6.199932e-03 1.139532e-02 1.522674e-02
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     [2806,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2807,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2808,] 5.029990e-03 4.441757e-04 0.000000e+00
##
     [2809,] 5.127181e-04 0.000000e+00 9.766053e-04
##
     [2810,] 7.503709e-04 4.466601e-03 5.409755e-03
##
     [2811,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2812,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2813,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2814,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [2815,] 8.995900e-03 1.212415e-02 2.166835e-02
##
     [2816,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2817,] 1.355446e-03 2.003826e-03 0.000000e+00
##
     [2818,] 0.000000e+00 0.000000e+00 1.415192e-03
##
     [2819,] 5.480231e-03 0.000000e+00 0.000000e+00
##
     [2820,] 0.000000e+00 0.000000e+00 7.839166e-03
##
     [2821,] 1.916258e-02 3.130048e-02 3.285217e-02
##
     [2822,] 1.243910e-03 0.000000e+00 1.603685e-03
##
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##
     [2824,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2825,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
     [2828,] 5.999157e-04 0.000000e+00 0.000000e+00
##
     [2829,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2830,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2831,] 4.170141e-03 3.854167e-03 2.839790e-03
##
     [2832,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2833,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2834,] 5.201752e-03 6.196692e-04 0.000000e+00
##
##
     [2835,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2836,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2837,] 1.181884e-02 3.983527e-04 5.843918e-03
##
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     [2839,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
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##
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##
     [2845,] 2.322389e-03 2.953542e-03 1.093555e-02
##
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##
     [2847,] 3.912799e-02 2.440281e-02 2.216400e-02
##
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##
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##
     [2850,] 1.779434e-02 1.043204e-02 5.358838e-03
##
     [2851,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2852,] 0.000000e+00 5.561032e-04 2.561702e-03
```

```
[2853,] 5.250353e-03 5.386739e-04 4.572132e-03
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     [2854,] 1.286122e-03 3.711563e-03 3.506615e-03
##
     [2855,] 5.806950e-03 8.489349e-03 3.573178e-03
##
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##
     [2857,] 0.000000e+00 0.000000e+00 5.331491e-03
##
     [2858,] 9.527501e-03 7.883163e-03 3.418797e-03
     [2859,] 0.000000e+00 1.902573e-03 0.000000e+00
##
##
     [2860,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2861,] 2.112988e-03 3.474849e-03 0.000000e+00
##
     [2862,] 2.694840e-03 0.000000e+00 0.000000e+00
##
     [2863,] 0.000000e+00 0.000000e+00 0.000000e+00
     [2864,] 6.752723e-03 1.263468e-05 7.036698e-03
##
##
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##
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##
     [2867,] 3.290908e-03 0.000000e+00 0.000000e+00
##
     [2868,] 5.378390e-03 1.019781e-04 2.297323e-03
##
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##
     [2870,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2871,] 0.000000e+00 1.152467e-02 1.196041e-02
##
     [2872,] 2.273031e-03 9.949613e-03 2.147690e-02
##
     [2873,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2874,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2875,] 9.716911e-04 4.872759e-03 2.536278e-03
##
     [2876,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2877,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2878,] 9.544985e-03 1.822346e-02 2.133887e-02
##
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##
     [2880,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2881,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2882,] 7.480510e-03 8.098375e-03 1.358597e-02
##
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     [2884,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
     [2886,] 5.978000e-03 1.662005e-02 0.000000e+00
##
     [2887,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2888,] 1.097961e-02 1.085507e-02 1.082819e-02
##
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##
     [2890,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2891,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2892,] 0.000000e+00 0.000000e+00 1.705319e-03
##
     [2893,] 1.912245e-03 4.938253e-04 0.000000e+00
##
     [2894,] 9.054474e-03 7.288373e-03 0.000000e+00
##
     [2895,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2896,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2897,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [2898,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [2900,] 4.528563e-03 7.924820e-03 0.000000e+00
##
##
     [2901,] 8.815906e-03 1.759816e-02 2.936868e-02
     [2902,] 0.000000e+00 0.000000e+00 0.000000e+00
```

```
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##
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     [2906,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
     [2912,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
##
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##
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##
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##
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##
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##
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##
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```

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##
     [3109,] 0.000000e+00 2.069173e-03 9.538074e-03
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##
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     [3113,] 4.840820e-03 7.626100e-03 1.733173e-02
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##
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##
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##
     [3189,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3190,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3191,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3192,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
     [3195,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3196,] 0.000000e+00 0.000000e+00 0.000000e+00
     [3197,] 4.043505e-03 0.000000e+00 0.000000e+00
##
##
     [3198,] 3.504057e-03 8.940574e-03 0.000000e+00
##
     [3199,] 3.571514e-03 3.034574e-03 4.127665e-03
##
     [3200,] 0.000000e+00 1.354196e-03 2.384825e-03
##
     [3201,] 6.400928e-03 6.117107e-03 4.233828e-03
     [3202,] 0.000000e+00 0.000000e+00 2.185248e-04
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[3203,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [3205,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3206,] 1.769449e-02 1.695281e-02 1.840318e-02
##
     [3207,] 0.000000e+00 8.753754e-03 1.135030e-02
##
     [3208,] 6.078884e-04 0.000000e+00 0.000000e+00
##
     [3209,] 8.480776e-03 1.183462e-02 8.286462e-03
##
     [3210,] 2.722464e-03 6.093478e-03 1.224316e-02
##
     [3211,] 1.493167e-03 3.601801e-03 1.141039e-02
##
     [3212,] 0.000000e+00 0.000000e+00 0.000000e+00
     [3213,] 1.526103e-02 8.451383e-03 1.285500e-02
##
     [3214,] 1.284160e-02 2.151402e-02 2.929139e-02
##
##
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##
     [3216,] 2.526437e-03 6.163112e-03 2.080215e-03
##
     [3217,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [3234,] 0.000000e+00 1.617668e-03 0.000000e+00
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     [3237,] 1.140453e-02 2.247409e-02 1.214662e-02
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##
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     [3241,] 9.033738e-03 8.196912e-03 5.165289e-03
##
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##
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##
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##
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     [3247,] 7.491113e-03 8.735319e-03 1.264219e-02
##
##
     [3248,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [3250,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3251,] 1.699540e-03 9.161768e-03 1.555391e-02
     [3252,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
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     [3254,] 0.000000e+00 0.000000e+00 3.230158e-03
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##
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     [3257,] 1.674731e-03 0.000000e+00 4.668678e-03
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##
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##
##
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##
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     [3271,] 1.133062e-02 1.950758e-02 1.268242e-02
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##
     [3274,] 1.845111e-02 1.494625e-02 7.303794e-03
##
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##
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##
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##
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##
     [3285,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3286,] 0.000000e+00 0.000000e+00 3.171967e-03
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##
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##
##
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##
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##
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##
     [3301,] 0.000000e+00 0.000000e+00 2.937986e-04
     [3302,] 6.127087e-04 8.360508e-03 1.874348e-02
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##
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##
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##
     [3309,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [3311,] 0.000000e+00 2.984476e-03 0.000000e+00
##
     [3312,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3313,] 0.000000e+00 0.000000e+00 0.000000e+00
     [3314,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
     [3317,] 0.000000e+00 0.000000e+00 4.648292e-04
##
     [3318,] 2.392956e-03 0.000000e+00 4.304567e-03
##
     [3319,] 1.568688e-02 0.000000e+00 0.000000e+00
##
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##
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##
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##
     [3323,] 9.868431e-03 1.164995e-03 0.000000e+00
##
     [3324,] 0.000000e+00 0.000000e+00 2.511388e-04
     [3325,] 1.039923e-02 9.178919e-03 2.215304e-02
##
##
     [3326,] 1.273317e-03 5.062713e-03 0.000000e+00
##
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##
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     [3334,] 4.827541e-03 0.000000e+00 0.000000e+00
##
##
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##
     [3336,] 3.757886e-04 0.000000e+00 2.898232e-03
##
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##
     [3338,] 0.000000e+00 0.000000e+00 0.000000e+00
     [3339,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
     [3342,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
     [3347,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
##
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     [3352,] 0.000000e+00 0.000000e+00 0.000000e+00
```

```
[3353,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
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##
     [3362,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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     [3367,] 2.820267e-03 3.272488e-03 9.148748e-03
##
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##
     [3370,] 4.621694e-03 1.045266e-02 1.992785e-02
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##
     [3372,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3373,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3374,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3375,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3376,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
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##
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##
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     [3389,] 2.230908e-02 2.538302e-02 2.999748e-02
##
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##
     [3391,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3392,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [3396,] 0.000000e+00 0.000000e+00 0.000000e+00
     [3397,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [3398,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [3400,] 4.557880e-04 1.115887e-02 1.105771e-02
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     [3402,] 0.000000e+00 0.000000e+00 0.000000e+00
```

```
[3403,] 6.590456e-03 1.091350e-02 7.297505e-03
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     [3406,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [3408,] 6.182896e-03 5.418503e-03 6.128154e-03
##
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##
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##
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##
     [3412,] 0.000000e+00 2.993520e-03 1.435216e-02
     [3413,] 6.848155e-03 1.253126e-02 1.948093e-02
##
##
     [3414,] 0.000000e+00 0.000000e+00 2.812882e-03
##
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##
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     [3417,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
     [3421,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [3424,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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##
     [3428,] 2.438859e-03 0.000000e+00 0.000000e+00
##
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##
     [3430,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3431,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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     [3434,] 6.922928e-03 1.082813e-03 0.000000e+00
##
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     [3435,] 1.332211e-02 2.800338e-02 3.370479e-02
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##
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##
     [3438,] 5.629810e-03 0.000000e+00 0.000000e+00
     [3439,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
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##
     [3444,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3445,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [3446,] 0.000000e+00 0.000000e+00 0.000000e+00
     [3447,] 0.000000e+00 0.000000e+00 5.760451e-03
##
##
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##
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     [3452,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [3456,] 0.000000e+00 7.867624e-04 9.058372e-03
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##
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##
     [3500,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [3507,] 6.440139e-03 5.963723e-03 0.000000e+00
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##
     [3509,] 1.181396e-02 1.286271e-02 1.435184e-02
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##
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##
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     [3539,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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```

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##
##
     [3747,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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```

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##
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     [3989,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [3990,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [4001,] 0.000000e+00 0.000000e+00 0.000000e+00
     [4002,] 3.791077e-03 5.313872e-03 1.130263e-02
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     [4008,] 3.763076e-03 5.789882e-03 1.302852e-02
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     [4012,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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##
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##
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     [4246,] 1.075514e-03 5.646936e-03 1.412823e-02
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     [4250,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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     [4363,] 7.841042e-03 1.421498e-02 2.138465e-02
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##
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##
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##
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     [4496,] 8.738452e-03 7.623487e-03 1.195680e-02
##
     [4497,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4498,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [4500,] 4.611767e-03 1.243112e-02 4.836046e-03
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     [4501,] 0.000000e+00 0.000000e+00 0.000000e+00
     [4502,] 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
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##
     [4505,] 0.000000e+00 0.000000e+00 3.671355e-03
     [4506,] 0.000000e+00 7.967933e-04 1.195116e-03
##
##
     [4507,] 1.120326e-02 1.443188e-02 1.807111e-02
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     [4508,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [4510,] 3.972760e-04 2.094324e-03 1.618515e-02
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##
     [4512,] 1.199407e-02 8.904660e-03 1.724633e-02
##
     [4513,] 0.000000e+00 0.000000e+00 0.000000e+00
     [4514,] 4.655762e-03 6.706654e-03 5.060752e-03
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     [4515,] 0.000000e+00 3.095536e-03 0.000000e+00
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     [4516,] 0.000000e+00 0.000000e+00 0.000000e+00
     [4517,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [4523,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [4529,] 0.000000e+00 0.000000e+00 0.000000e+00
     [4530,] 7.571778e-03 0.000000e+00 0.000000e+00
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     [4534,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [4537,] 1.218484e-02 1.663657e-02 1.286082e-02
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```

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##
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##
     [4602,] 0.000000e+00 0.000000e+00 3.836163e-03
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##
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     [4623,] 0.000000e+00 8.221536e-03 7.742551e-03
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##
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     [4639,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
##
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##
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##
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##
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##
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     [4702,] 0.000000e+00 0.000000e+00 0.000000e+00
```

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     [4709,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
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##
##
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##
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     [4752,] 0.000000e+00 0.000000e+00 0.000000e+00
```

```
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##
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##
     [4762,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [4764,] 2.443290e-02 1.969840e-02 1.955957e-02
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     [4775,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [4776,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [4797,] 0.000000e+00 1.330025e-04 1.051861e-03
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##
     [4807,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [4812,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [4813,] 0.000000e+00 0.000000e+00 0.000000e+00
     [4814,] 8.687850e-03 1.163884e-03 0.000000e+00
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     [4860,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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```

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     [4906,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [4907,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4908,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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     [4914,] 1.877019e-02 2.732221e-02 2.743960e-02
##
##
     [4915,] 1.582814e-03 7.373432e-03 6.042979e-03
##
     [4916,] 1.530022e-02 9.328678e-03 0.000000e+00
     [4917,] 3.089625e-05 4.227098e-03 0.000000e+00
##
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##
     [4924,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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     [4934,] 4.958449e-03 4.887536e-03 4.341558e-04
##
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##
##
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     [4952,] 0.000000e+00 3.202984e-05 0.000000e+00
```

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##
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     [4959,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [4961,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4962,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4963,] 0.000000e+00 0.000000e+00 0.000000e+00
     [4964,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
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##
##
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##
     [4969,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [4970,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
     [4983,] 0.000000e+00 0.000000e+00 0.000000e+00
     [4984,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [4996,] 5.343534e-03 7.084960e-03 2.359557e-03
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##
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```

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     [5013,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
##
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     [5035,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [5036,] 3.496292e-03 3.976459e-03 1.227246e-02
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     [5037,] 8.514829e-03 5.217138e-03 1.004681e-02
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     [5042,] 2.969472e-03 9.486921e-03 6.997283e-03
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     [5046,] 8.306675e-03 1.025885e-03 0.000000e+00
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     [5047,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [5052,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [5056,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [5064,] 0.000000e+00 8.625654e-04 7.702786e-03
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     [5102,] 1.414632e-02 1.521752e-02 1.498059e-02
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##
     [5110,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [5111,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [5113,] 6.409577e-03 8.717298e-04 0.000000e+00
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##
##
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##
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     [5146,] 8.435217e-03 1.216995e-02 1.998141e-02
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     [5152,] 2.899780e-03 0.000000e+00 9.464309e-04
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##
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##
     [5163,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [5164,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [5177,] 1.361755e-02 3.961986e-03 4.265779e-03
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##
##
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     [5202,] 3.368786e-03 8.939139e-03 1.702854e-02
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##
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##
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     [5280,] 2.024536e-03 1.150746e-02 6.694570e-03
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     [5284,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [5291,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [5296,] 1.700855e-02 2.650173e-02 3.467528e-02
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     [5299,] 2.706447e-04 1.050187e-03 1.350672e-03
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     [5302,] 1.056786e-02 1.392455e-02 1.938593e-02
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     [5305,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [5307,] 7.141627e-03 1.252351e-02 8.378064e-03
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##
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##
     [5311,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [5312,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [5313,] 0.000000e+00 0.000000e+00 0.000000e+00
     [5314,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [5315,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
     [5340,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
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##
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     [5414,] 0.000000e+00 3.998984e-03 3.256369e-03
##
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##
##
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##
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     [5425,] 2.203242e-03 9.841684e-03 7.024238e-03
##
##
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##
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##
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##
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##
##
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```

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##
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##
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##
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##
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##
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##
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     [5496,] 5.431369e-03 1.442197e-02 3.421764e-02
##
##
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##
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     [5502,] 0.000000e+00 0.000000e+00 0.000000e+00
```

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     [5513,] 1.801407e-02 2.883609e-02 2.818415e-02
##
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##
##
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     [5797,] 0.000000e+00 0.000000e+00 0.000000e+00
##
##
     [5798,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [5799,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [5800,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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     [5802,] 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
     [5806,] 1.742225e-03 0.000000e+00 2.587002e-04
##
     [5807,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [5808,] 0.000000e+00 0.000000e+00 0.000000e+00
     [5809,] 1.273624e-02 1.289404e-02 1.887080e-02
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     [5811,] 5.068821e-03 2.572743e-03 0.000000e+00
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     [5813,] 1.309858e-02 2.078535e-02 1.246616e-02
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     [5817,] 0.000000e+00 8.603239e-04 6.919817e-04
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     [5839,] 4.210982e-03 1.274698e-03 4.924759e-03
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##
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##
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     [5851,] 0.000000e+00 0.000000e+00 0.000000e+00
     [5852,] 0.000000e+00 0.000000e+00 0.000000e+00
```

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##
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##
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##
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##
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```

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     [5924,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
     [5926,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [5927,] 0.000000e+00 0.000000e+00 0.000000e+00
##
     [5928,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [5934,] 0.000000e+00 0.000000e+00 0.000000e+00
##
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##
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##
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     [5952,] 0.000000e+00 1.241312e-02 1.354679e-02
```

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##
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##
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##
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     [5963,] 0.000000e+00 7.358346e-03 1.154624e-02
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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```

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##
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##
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##
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     [7934,] 8.702144e-03 7.287104e-03 6.871803e-03
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##
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     [8402,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [8413,] 1.010923e-03 5.964185e-03 0.000000e+00
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     [8502,] 1.115901e-02 2.021152e-02 2.735604e-02
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##
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     [8509,] 0.000000e+00 0.000000e+00 0.000000e+00
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     [8514,] 2.737221e-02 1.957625e-02 1.377468e-02
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     [8563,] 3.736996e-03 1.724051e-02 2.366458e-02
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##
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##
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##
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     [8946,] 7.588074e-03 1.634131e-02 1.654715e-02
##
     [8947,] 1.243286e-03 1.185124e-02 5.709431e-03
##
##
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     [8950,] 0.000000e+00 1.443005e-03 0.000000e+00
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     [8952,] 0.000000e+00 6.266982e-03 1.431106e-02
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##
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##
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##
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     [9525,] 3.104846e-03 0.000000e+00 0.000000e+00
##
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##
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##
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##
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##
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     [9988,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
##
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     [9999,] 4.176751e-03 2.445820e-03 0.000000e+00
##
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##
    [10006,] 0.000000e+00 5.827767e-03 0.000000e+00
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    [10009,] 5.049589e-03 0.000000e+00 6.394844e-04
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##
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##
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##
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    [10093,] 0.000000e+00 0.000000e+00 0.000000e+00
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   [10102,] 0.000000e+00 0.000000e+00 0.000000e+00
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##
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    [10109,] 1.220277e-02 1.397365e-02 2.286985e-02
##
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##
    [10111,] 0.000000e+00 0.000000e+00 0.000000e+00
##
    [10112,] 0.000000e+00 0.000000e+00 0.000000e+00
##
    [10113,] 0.000000e+00 0.000000e+00 6.336071e-03
    [10114,] 7.944816e-03 1.040954e-02 5.930254e-03
##
##
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##
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    [10117,] 1.153660e-03 5.042590e-03 5.764599e-03
##
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##
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##
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##
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##
##
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##
##
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##
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##
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    [10177,] 0.000000e+00 0.000000e+00 0.000000e+00
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   [10202,] 5.595454e-03 1.012796e-02 1.360879e-02
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    [10232,] 0.000000e+00 0.000000e+00 0.000000e+00
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    [10233,] 0.000000e+00 0.000000e+00 9.996741e-04
    [10234,] 1.153169e-02 3.820957e-03 2.596869e-03
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    [10239,] 1.104564e-02 3.994902e-03 0.000000e+00
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  [10252,] 0.000000e+00 0.000000e+00 0.000000e+00
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    [10317,] 2.379586e-03 3.900211e-03 8.582706e-03
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##
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##
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##
##
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##
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##
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##
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##
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##
##
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```

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##
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    [11816,] 0.000000e+00 0.000000e+00 0.000000e+00
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```

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##
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##
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##
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##
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##
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