

Machine Learning_SGD

July 11, 2022

```
[4]: import tensorflow as tf
import numpy as np

xData = [1,2,3,4,5,6,7]
yData = [25000,55000,75000,110000,128000,155000,180000]

model = tf.keras.models.Sequential()

model.add(tf.keras.layers.Dense(1, input_dim =1 ))

sgd = tf.keras.optimizers.SGD(
    learning_rate=0.01,
    momentum=0.0,
    nesterov=False,
    name='SGD'
)

model.compile(loss = 'mean_squared_error', optimizer = sgd)#
model.fit(xData,yData,epochs = 5000)# 5000
testdata = [8,100]#
print(model.predict(testdata))
```

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Epoch 1/5000
1/1 [=====] - 0s 120ms/step - loss: 13454082048.0000
Epoch 2/5000
1/1 [=====] - 0s 5ms/step - loss: 4593537024.0000
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1/1 [=====] - 0s 4ms/step - loss: 72999256.0000
Epoch 7/5000
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1/1 [=====] - 0s 4ms/step - loss: 8983013.0000
Epoch 262/5000
1/1 [=====] - 0s 5ms/step - loss: 8980321.0000
Epoch 263/5000
1/1 [=====] - 0s 4ms/step - loss: 8977653.0000
Epoch 264/5000
1/1 [=====] - 0s 4ms/step - loss: 8975006.0000
Epoch 265/5000
1/1 [=====] - 0s 5ms/step - loss: 8972380.0000
Epoch 266/5000
1/1 [=====] - 0s 5ms/step - loss: 8969769.0000
Epoch 267/5000
1/1 [=====] - 0s 3ms/step - loss: 8967183.0000
Epoch 268/5000
1/1 [=====] - 0s 4ms/step - loss: 8964621.0000
Epoch 269/5000
1/1 [=====] - 0s 4ms/step - loss: 8962071.0000
Epoch 270/5000
1/1 [=====] - 0s 4ms/step - loss: 8959539.0000
Epoch 271/5000
1/1 [=====] - 0s 4ms/step - loss: 8957033.0000

Epoch 272/5000
1/1 [=====] - 0s 4ms/step - loss: 8954541.0000
Epoch 273/5000
1/1 [=====] - 0s 5ms/step - loss: 8952070.0000
Epoch 274/5000
1/1 [=====] - 0s 4ms/step - loss: 8949622.0000
Epoch 275/5000
1/1 [=====] - 0s 3ms/step - loss: 8947193.0000
Epoch 276/5000
1/1 [=====] - 0s 4ms/step - loss: 8944775.0000
Epoch 277/5000
1/1 [=====] - 0s 4ms/step - loss: 8942381.0000
Epoch 278/5000
1/1 [=====] - 0s 5ms/step - loss: 8940008.0000
Epoch 279/5000
1/1 [=====] - 0s 5ms/step - loss: 8937644.0000
Epoch 280/5000
1/1 [=====] - 0s 3ms/step - loss: 8935306.0000
Epoch 281/5000
1/1 [=====] - 0s 4ms/step - loss: 8932978.0000
Epoch 282/5000
1/1 [=====] - 0s 3ms/step - loss: 8930679.0000
Epoch 283/5000
1/1 [=====] - 0s 4ms/step - loss: 8928385.0000
Epoch 284/5000
1/1 [=====] - 0s 3ms/step - loss: 8926121.0000
Epoch 285/5000
1/1 [=====] - 0s 3ms/step - loss: 8923867.0000
Epoch 286/5000
1/1 [=====] - 0s 3ms/step - loss: 8921630.0000
Epoch 287/5000
1/1 [=====] - 0s 3ms/step - loss: 8919415.0000
Epoch 288/5000
1/1 [=====] - 0s 4ms/step - loss: 8917214.0000
Epoch 289/5000
1/1 [=====] - 0s 4ms/step - loss: 8915027.0000
Epoch 290/5000
1/1 [=====] - 0s 3ms/step - loss: 8912858.0000
Epoch 291/5000
1/1 [=====] - 0s 4ms/step - loss: 8910709.0000
Epoch 292/5000
1/1 [=====] - 0s 3ms/step - loss: 8908576.0000
Epoch 293/5000
1/1 [=====] - 0s 3ms/step - loss: 8906455.0000
Epoch 294/5000
1/1 [=====] - 0s 3ms/step - loss: 8904357.0000
Epoch 295/5000
1/1 [=====] - 0s 3ms/step - loss: 8902269.0000

Epoch 296/5000
1/1 [=====] - 0s 2ms/step - loss: 8900205.0000
Epoch 297/5000
1/1 [=====] - 0s 3ms/step - loss: 8898146.0000
Epoch 298/5000
1/1 [=====] - 0s 2ms/step - loss: 8896114.0000
Epoch 299/5000
1/1 [=====] - 0s 2ms/step - loss: 8894090.0000
Epoch 300/5000
1/1 [=====] - 0s 2ms/step - loss: 8892083.0000
Epoch 301/5000
1/1 [=====] - 0s 2ms/step - loss: 8890094.0000
Epoch 302/5000
1/1 [=====] - 0s 3ms/step - loss: 8888115.0000
Epoch 303/5000
1/1 [=====] - 0s 3ms/step - loss: 8886158.0000
Epoch 304/5000
1/1 [=====] - 0s 3ms/step - loss: 8884210.0000
Epoch 305/5000
1/1 [=====] - 0s 3ms/step - loss: 8882281.0000
Epoch 306/5000
1/1 [=====] - 0s 4ms/step - loss: 8880367.0000
Epoch 307/5000
1/1 [=====] - 0s 4ms/step - loss: 8878463.0000
Epoch 308/5000
1/1 [=====] - 0s 5ms/step - loss: 8876581.0000
Epoch 309/5000
1/1 [=====] - 0s 4ms/step - loss: 8874703.0000
Epoch 310/5000
1/1 [=====] - 0s 5ms/step - loss: 8872847.0000
Epoch 311/5000
1/1 [=====] - 0s 4ms/step - loss: 8871005.0000
Epoch 312/5000
1/1 [=====] - 0s 4ms/step - loss: 8869171.0000
Epoch 313/5000
1/1 [=====] - 0s 4ms/step - loss: 8867357.0000
Epoch 314/5000
1/1 [=====] - 0s 3ms/step - loss: 8865559.0000
Epoch 315/5000
1/1 [=====] - 0s 4ms/step - loss: 8863774.0000
Epoch 316/5000
1/1 [=====] - 0s 5ms/step - loss: 8861995.0000
Epoch 317/5000
1/1 [=====] - 0s 4ms/step - loss: 8860235.0000
Epoch 318/5000
1/1 [=====] - 0s 4ms/step - loss: 8858487.0000
Epoch 319/5000
1/1 [=====] - 0s 5ms/step - loss: 8856758.0000

Epoch 320/5000
1/1 [=====] - 0s 8ms/step - loss: 8855039.0000
Epoch 321/5000
1/1 [=====] - 0s 3ms/step - loss: 8853328.0000
Epoch 322/5000
1/1 [=====] - 0s 3ms/step - loss: 8851632.0000
Epoch 323/5000
1/1 [=====] - 0s 2ms/step - loss: 8849954.0000
Epoch 324/5000
1/1 [=====] - 0s 3ms/step - loss: 8848287.0000
Epoch 325/5000
1/1 [=====] - 0s 2ms/step - loss: 8846633.0000
Epoch 326/5000
1/1 [=====] - 0s 4ms/step - loss: 8844994.0000
Epoch 327/5000
1/1 [=====] - 0s 3ms/step - loss: 8843363.0000
Epoch 328/5000
1/1 [=====] - 0s 4ms/step - loss: 8841746.0000
Epoch 329/5000
1/1 [=====] - 0s 4ms/step - loss: 8840138.0000
Epoch 330/5000
1/1 [=====] - 0s 3ms/step - loss: 8838550.0000
Epoch 331/5000
1/1 [=====] - 0s 4ms/step - loss: 8836967.0000
Epoch 332/5000
1/1 [=====] - 0s 3ms/step - loss: 8835399.0000
Epoch 333/5000
1/1 [=====] - 0s 3ms/step - loss: 8833846.0000
Epoch 334/5000
1/1 [=====] - 0s 6ms/step - loss: 8832301.0000
Epoch 335/5000
1/1 [=====] - 0s 3ms/step - loss: 8830769.0000
Epoch 336/5000
1/1 [=====] - 0s 4ms/step - loss: 8829247.0000
Epoch 337/5000
1/1 [=====] - 0s 5ms/step - loss: 8827736.0000
Epoch 338/5000
1/1 [=====] - 0s 4ms/step - loss: 8826240.0000
Epoch 339/5000
1/1 [=====] - 0s 4ms/step - loss: 8824751.0000
Epoch 340/5000
1/1 [=====] - 0s 3ms/step - loss: 8823279.0000
Epoch 341/5000
1/1 [=====] - 0s 4ms/step - loss: 8821817.0000
Epoch 342/5000
1/1 [=====] - 0s 3ms/step - loss: 8820370.0000
Epoch 343/5000
1/1 [=====] - 0s 4ms/step - loss: 8818922.0000

Epoch 344/5000
1/1 [=====] - 0s 3ms/step - loss: 8817495.0000
Epoch 345/5000
1/1 [=====] - 0s 3ms/step - loss: 8816077.0000
Epoch 346/5000
1/1 [=====] - 0s 3ms/step - loss: 8814667.0000
Epoch 347/5000
1/1 [=====] - 0s 3ms/step - loss: 8813272.0000
Epoch 348/5000
1/1 [=====] - 0s 3ms/step - loss: 8811885.0000
Epoch 349/5000
1/1 [=====] - 0s 3ms/step - loss: 8810509.0000
Epoch 350/5000
1/1 [=====] - 0s 3ms/step - loss: 8809147.0000
Epoch 351/5000
1/1 [=====] - 0s 3ms/step - loss: 8807789.0000
Epoch 352/5000
1/1 [=====] - 0s 2ms/step - loss: 8806445.0000
Epoch 353/5000
1/1 [=====] - 0s 4ms/step - loss: 8805110.0000
Epoch 354/5000
1/1 [=====] - 0s 4ms/step - loss: 8803787.0000
Epoch 355/5000
1/1 [=====] - 0s 4ms/step - loss: 8802474.0000
Epoch 356/5000
1/1 [=====] - 0s 3ms/step - loss: 8801174.0000
Epoch 357/5000
1/1 [=====] - 0s 2ms/step - loss: 8799882.0000
Epoch 358/5000
1/1 [=====] - 0s 3ms/step - loss: 8798595.0000
Epoch 359/5000
1/1 [=====] - 0s 3ms/step - loss: 8797319.0000
Epoch 360/5000
1/1 [=====] - 0s 3ms/step - loss: 8796059.0000
Epoch 361/5000
1/1 [=====] - 0s 3ms/step - loss: 8794805.0000
Epoch 362/5000
1/1 [=====] - 0s 3ms/step - loss: 8793561.0000
Epoch 363/5000
1/1 [=====] - 0s 3ms/step - loss: 8792324.0000
Epoch 364/5000
1/1 [=====] - 0s 3ms/step - loss: 8791101.0000
Epoch 365/5000
1/1 [=====] - 0s 2ms/step - loss: 8789883.0000
Epoch 366/5000
1/1 [=====] - 0s 3ms/step - loss: 8788672.0000
Epoch 367/5000
1/1 [=====] - 0s 4ms/step - loss: 8787480.0000

Epoch 368/5000
1/1 [=====] - 0s 4ms/step - loss: 8786305.0000
Epoch 369/5000
1/1 [=====] - 0s 3ms/step - loss: 8785110.0000
Epoch 370/5000
1/1 [=====] - 0s 3ms/step - loss: 8783945.0000
Epoch 371/5000
1/1 [=====] - 0s 4ms/step - loss: 8782779.0000
Epoch 372/5000
1/1 [=====] - 0s 3ms/step - loss: 8781630.0000
Epoch 373/5000
1/1 [=====] - 0s 2ms/step - loss: 8780484.0000
Epoch 374/5000
1/1 [=====] - 0s 3ms/step - loss: 8779352.0000
Epoch 375/5000
1/1 [=====] - 0s 3ms/step - loss: 8778225.0000
Epoch 376/5000
1/1 [=====] - 0s 3ms/step - loss: 8777109.0000
Epoch 377/5000
1/1 [=====] - 0s 2ms/step - loss: 8776004.0000
Epoch 378/5000
1/1 [=====] - 0s 3ms/step - loss: 8774899.0000
Epoch 379/5000
1/1 [=====] - 0s 2ms/step - loss: 8773810.0000
Epoch 380/5000
1/1 [=====] - 0s 3ms/step - loss: 8772720.0000
Epoch 381/5000
1/1 [=====] - 0s 2ms/step - loss: 8771647.0000
Epoch 382/5000
1/1 [=====] - 0s 3ms/step - loss: 8770581.0000
Epoch 383/5000
1/1 [=====] - 0s 3ms/step - loss: 8769527.0000
Epoch 384/5000
1/1 [=====] - 0s 4ms/step - loss: 8768472.0000
Epoch 385/5000
1/1 [=====] - 0s 3ms/step - loss: 8767434.0000
Epoch 386/5000
1/1 [=====] - 0s 3ms/step - loss: 8766397.0000
Epoch 387/5000
1/1 [=====] - 0s 3ms/step - loss: 8765371.0000
Epoch 388/5000
1/1 [=====] - 0s 2ms/step - loss: 8764353.0000
Epoch 389/5000
1/1 [=====] - 0s 3ms/step - loss: 8763342.0000
Epoch 390/5000
1/1 [=====] - 0s 3ms/step - loss: 8762339.0000
Epoch 391/5000
1/1 [=====] - 0s 3ms/step - loss: 8761346.0000

Epoch 392/5000
1/1 [=====] - 0s 4ms/step - loss: 8760352.0000
Epoch 393/5000
1/1 [=====] - 0s 4ms/step - loss: 8759379.0000
Epoch 394/5000
1/1 [=====] - 0s 4ms/step - loss: 8758401.0000
Epoch 395/5000
1/1 [=====] - 0s 4ms/step - loss: 8757439.0000
Epoch 396/5000
1/1 [=====] - 0s 4ms/step - loss: 8756477.0000
Epoch 397/5000
1/1 [=====] - 0s 5ms/step - loss: 8755531.0000
Epoch 398/5000
1/1 [=====] - 0s 3ms/step - loss: 8754586.0000
Epoch 399/5000
1/1 [=====] - 0s 4ms/step - loss: 8753650.0000
Epoch 400/5000
1/1 [=====] - 0s 4ms/step - loss: 8752722.0000
Epoch 401/5000
1/1 [=====] - 0s 4ms/step - loss: 8751803.0000
Epoch 402/5000
1/1 [=====] - 0s 3ms/step - loss: 8750887.0000
Epoch 403/5000
1/1 [=====] - 0s 4ms/step - loss: 8749976.0000
Epoch 404/5000
1/1 [=====] - 0s 4ms/step - loss: 8749078.0000
Epoch 405/5000
1/1 [=====] - 0s 3ms/step - loss: 8748181.0000
Epoch 406/5000
1/1 [=====] - 0s 3ms/step - loss: 8747298.0000
Epoch 407/5000
1/1 [=====] - 0s 3ms/step - loss: 8746422.0000
Epoch 408/5000
1/1 [=====] - 0s 2ms/step - loss: 8745545.0000
Epoch 409/5000
1/1 [=====] - 0s 3ms/step - loss: 8744678.0000
Epoch 410/5000
1/1 [=====] - 0s 3ms/step - loss: 8743822.0000
Epoch 411/5000
1/1 [=====] - 0s 2ms/step - loss: 8742968.0000
Epoch 412/5000
1/1 [=====] - 0s 2ms/step - loss: 8742119.0000
Epoch 413/5000
1/1 [=====] - 0s 2ms/step - loss: 8741277.0000
Epoch 414/5000
1/1 [=====] - 0s 3ms/step - loss: 8740446.0000
Epoch 415/5000
1/1 [=====] - 0s 4ms/step - loss: 8739618.0000

Epoch 416/5000
1/1 [=====] - 0s 4ms/step - loss: 8738799.0000
Epoch 417/5000
1/1 [=====] - 0s 4ms/step - loss: 8737982.0000
Epoch 418/5000
1/1 [=====] - 0s 3ms/step - loss: 8737170.0000
Epoch 419/5000
1/1 [=====] - 0s 3ms/step - loss: 8736373.0000
Epoch 420/5000
1/1 [=====] - 0s 2ms/step - loss: 8735576.0000
Epoch 421/5000
1/1 [=====] - 0s 3ms/step - loss: 8734783.0000
Epoch 422/5000
1/1 [=====] - 0s 2ms/step - loss: 8734003.0000
Epoch 423/5000
1/1 [=====] - 0s 2ms/step - loss: 8733221.0000
Epoch 424/5000
1/1 [=====] - 0s 3ms/step - loss: 8732454.0000
Epoch 425/5000
1/1 [=====] - 0s 3ms/step - loss: 8731688.0000
Epoch 426/5000
1/1 [=====] - 0s 3ms/step - loss: 8730929.0000
Epoch 427/5000
1/1 [=====] - 0s 2ms/step - loss: 8730168.0000
Epoch 428/5000
1/1 [=====] - 0s 4ms/step - loss: 8729423.0000
Epoch 429/5000
1/1 [=====] - 0s 2ms/step - loss: 8728680.0000
Epoch 430/5000
1/1 [=====] - 0s 4ms/step - loss: 8727943.0000
Epoch 431/5000
1/1 [=====] - 0s 4ms/step - loss: 8727210.0000
Epoch 432/5000
1/1 [=====] - 0s 5ms/step - loss: 8726487.0000
Epoch 433/5000
1/1 [=====] - 0s 3ms/step - loss: 8725765.0000
Epoch 434/5000
1/1 [=====] - 0s 3ms/step - loss: 8725050.0000
Epoch 435/5000
1/1 [=====] - 0s 4ms/step - loss: 8724343.0000
Epoch 436/5000
1/1 [=====] - 0s 3ms/step - loss: 8723643.0000
Epoch 437/5000
1/1 [=====] - 0s 3ms/step - loss: 8722939.0000
Epoch 438/5000
1/1 [=====] - 0s 3ms/step - loss: 8722247.0000
Epoch 439/5000
1/1 [=====] - 0s 3ms/step - loss: 8721561.0000

Epoch 440/5000
1/1 [=====] - 0s 3ms/step - loss: 8720881.0000
Epoch 441/5000
1/1 [=====] - 0s 3ms/step - loss: 8720199.0000
Epoch 442/5000
1/1 [=====] - 0s 3ms/step - loss: 8719533.0000
Epoch 443/5000
1/1 [=====] - 0s 4ms/step - loss: 8718861.0000
Epoch 444/5000
1/1 [=====] - 0s 4ms/step - loss: 8718197.0000
Epoch 445/5000
1/1 [=====] - 0s 4ms/step - loss: 8717549.0000
Epoch 446/5000
1/1 [=====] - 0s 3ms/step - loss: 8716907.0000
Epoch 447/5000
1/1 [=====] - 0s 4ms/step - loss: 8716246.0000
Epoch 448/5000
1/1 [=====] - 0s 4ms/step - loss: 8715605.0000
Epoch 449/5000
1/1 [=====] - 0s 4ms/step - loss: 8714972.0000
Epoch 450/5000
1/1 [=====] - 0s 8ms/step - loss: 8714335.0000
Epoch 451/5000
1/1 [=====] - 0s 4ms/step - loss: 8713712.0000
Epoch 452/5000
1/1 [=====] - 0s 2ms/step - loss: 8713090.0000
Epoch 453/5000
1/1 [=====] - 0s 3ms/step - loss: 8712466.0000
Epoch 454/5000
1/1 [=====] - 0s 3ms/step - loss: 8711858.0000
Epoch 455/5000
1/1 [=====] - 0s 3ms/step - loss: 8711250.0000
Epoch 456/5000
1/1 [=====] - 0s 3ms/step - loss: 8710643.0000
Epoch 457/5000
1/1 [=====] - 0s 3ms/step - loss: 8710050.0000
Epoch 458/5000
1/1 [=====] - 0s 4ms/step - loss: 8709455.0000
Epoch 459/5000
1/1 [=====] - 0s 4ms/step - loss: 8708866.0000
Epoch 460/5000
1/1 [=====] - 0s 3ms/step - loss: 8708278.0000
Epoch 461/5000
1/1 [=====] - 0s 3ms/step - loss: 8707698.0000
Epoch 462/5000
1/1 [=====] - 0s 3ms/step - loss: 8707120.0000
Epoch 463/5000
1/1 [=====] - 0s 3ms/step - loss: 8706555.0000

Epoch 464/5000
1/1 [=====] - 0s 4ms/step - loss: 8705987.0000
Epoch 465/5000
1/1 [=====] - 0s 4ms/step - loss: 8705425.0000
Epoch 466/5000
1/1 [=====] - 0s 3ms/step - loss: 8704863.0000
Epoch 467/5000
1/1 [=====] - 0s 3ms/step - loss: 8704310.0000
Epoch 468/5000
1/1 [=====] - 0s 3ms/step - loss: 8703761.0000
Epoch 469/5000
1/1 [=====] - 0s 3ms/step - loss: 8703211.0000
Epoch 470/5000
1/1 [=====] - 0s 4ms/step - loss: 8702678.0000
Epoch 471/5000
1/1 [=====] - 0s 3ms/step - loss: 8702135.0000
Epoch 472/5000
1/1 [=====] - 0s 3ms/step - loss: 8701600.0000
Epoch 473/5000
1/1 [=====] - 0s 5ms/step - loss: 8701073.0000
Epoch 474/5000
1/1 [=====] - 0s 5ms/step - loss: 8700552.0000
Epoch 475/5000
1/1 [=====] - 0s 4ms/step - loss: 8700024.0000
Epoch 476/5000
1/1 [=====] - 0s 4ms/step - loss: 8699505.0000
Epoch 477/5000
1/1 [=====] - 0s 4ms/step - loss: 8698995.0000
Epoch 478/5000
1/1 [=====] - 0s 3ms/step - loss: 8698493.0000
Epoch 479/5000
1/1 [=====] - 0s 4ms/step - loss: 8697975.0000
Epoch 480/5000
1/1 [=====] - 0s 3ms/step - loss: 8697482.0000
Epoch 481/5000
1/1 [=====] - 0s 3ms/step - loss: 8696985.0000
Epoch 482/5000
1/1 [=====] - 0s 3ms/step - loss: 8696490.0000
Epoch 483/5000
1/1 [=====] - 0s 2ms/step - loss: 8695999.0000
Epoch 484/5000
1/1 [=====] - 0s 2ms/step - loss: 8695513.0000
Epoch 485/5000
1/1 [=====] - 0s 3ms/step - loss: 8695034.0000
Epoch 486/5000
1/1 [=====] - 0s 2ms/step - loss: 8694553.0000
Epoch 487/5000
1/1 [=====] - 0s 3ms/step - loss: 8694079.0000

Epoch 488/5000
1/1 [=====] - 0s 3ms/step - loss: 8693605.0000
Epoch 489/5000
1/1 [=====] - 0s 3ms/step - loss: 8693131.0000
Epoch 490/5000
1/1 [=====] - 0s 4ms/step - loss: 8692674.0000
Epoch 491/5000
1/1 [=====] - 0s 4ms/step - loss: 8692211.0000
Epoch 492/5000
1/1 [=====] - 0s 5ms/step - loss: 8691758.0000
Epoch 493/5000
1/1 [=====] - 0s 4ms/step - loss: 8691300.0000
Epoch 494/5000
1/1 [=====] - 0s 3ms/step - loss: 8690850.0000
Epoch 495/5000
1/1 [=====] - 0s 3ms/step - loss: 8690404.0000
Epoch 496/5000
1/1 [=====] - 0s 2ms/step - loss: 8689960.0000
Epoch 497/5000
1/1 [=====] - 0s 3ms/step - loss: 8689526.0000
Epoch 498/5000
1/1 [=====] - 0s 3ms/step - loss: 8689085.0000
Epoch 499/5000
1/1 [=====] - 0s 2ms/step - loss: 8688653.0000
Epoch 500/5000
1/1 [=====] - 0s 3ms/step - loss: 8688221.0000
Epoch 501/5000
1/1 [=====] - 0s 3ms/step - loss: 8687795.0000
Epoch 502/5000
1/1 [=====] - 0s 2ms/step - loss: 8687375.0000
Epoch 503/5000
1/1 [=====] - 0s 3ms/step - loss: 8686950.0000
Epoch 504/5000
1/1 [=====] - 0s 3ms/step - loss: 8686535.0000
Epoch 505/5000
1/1 [=====] - 0s 3ms/step - loss: 8686121.0000
Epoch 506/5000
1/1 [=====] - 0s 3ms/step - loss: 8685717.0000
Epoch 507/5000
1/1 [=====] - 0s 4ms/step - loss: 8685303.0000
Epoch 508/5000
1/1 [=====] - 0s 3ms/step - loss: 8684903.0000
Epoch 509/5000
1/1 [=====] - 0s 4ms/step - loss: 8684498.0000
Epoch 510/5000
1/1 [=====] - 0s 4ms/step - loss: 8684101.0000
Epoch 511/5000
1/1 [=====] - 0s 4ms/step - loss: 8683709.0000

Epoch 512/5000
1/1 [=====] - 0s 4ms/step - loss: 8683317.0000
Epoch 513/5000
1/1 [=====] - 0s 3ms/step - loss: 8682927.0000
Epoch 514/5000
1/1 [=====] - 0s 3ms/step - loss: 8682545.0000
Epoch 515/5000
1/1 [=====] - 0s 3ms/step - loss: 8682158.0000
Epoch 516/5000
1/1 [=====] - 0s 3ms/step - loss: 8681771.0000
Epoch 517/5000
1/1 [=====] - 0s 4ms/step - loss: 8681399.0000
Epoch 518/5000
1/1 [=====] - 0s 2ms/step - loss: 8681025.0000
Epoch 519/5000
1/1 [=====] - 0s 2ms/step - loss: 8680655.0000
Epoch 520/5000
1/1 [=====] - 0s 3ms/step - loss: 8680282.0000
Epoch 521/5000
1/1 [=====] - 0s 3ms/step - loss: 8679919.0000
Epoch 522/5000
1/1 [=====] - 0s 3ms/step - loss: 8679561.0000
Epoch 523/5000
1/1 [=====] - 0s 4ms/step - loss: 8679201.0000
Epoch 524/5000
1/1 [=====] - 0s 4ms/step - loss: 8678843.0000
Epoch 525/5000
1/1 [=====] - 0s 4ms/step - loss: 8678489.0000
Epoch 526/5000
1/1 [=====] - 0s 3ms/step - loss: 8678132.0000
Epoch 527/5000
1/1 [=====] - 0s 4ms/step - loss: 8677789.0000
Epoch 528/5000
1/1 [=====] - 0s 4ms/step - loss: 8677441.0000
Epoch 529/5000
1/1 [=====] - 0s 4ms/step - loss: 8677094.0000
Epoch 530/5000
1/1 [=====] - 0s 3ms/step - loss: 8676752.0000
Epoch 531/5000
1/1 [=====] - 0s 3ms/step - loss: 8676418.0000
Epoch 532/5000
1/1 [=====] - 0s 3ms/step - loss: 8676081.0000
Epoch 533/5000
1/1 [=====] - 0s 4ms/step - loss: 8675745.0000
Epoch 534/5000
1/1 [=====] - 0s 3ms/step - loss: 8675413.0000
Epoch 535/5000
1/1 [=====] - 0s 3ms/step - loss: 8675085.0000

Epoch 536/5000
1/1 [=====] - 0s 3ms/step - loss: 8674764.0000
Epoch 537/5000
1/1 [=====] - 0s 3ms/step - loss: 8674440.0000
Epoch 538/5000
1/1 [=====] - 0s 3ms/step - loss: 8674119.0000
Epoch 539/5000
1/1 [=====] - 0s 3ms/step - loss: 8673796.0000
Epoch 540/5000
1/1 [=====] - 0s 3ms/step - loss: 8673487.0000
Epoch 541/5000
1/1 [=====] - 0s 3ms/step - loss: 8673174.0000
Epoch 542/5000
1/1 [=====] - 0s 4ms/step - loss: 8672861.0000
Epoch 543/5000
1/1 [=====] - 0s 4ms/step - loss: 8672558.0000
Epoch 544/5000
1/1 [=====] - 0s 4ms/step - loss: 8672246.0000
Epoch 545/5000
1/1 [=====] - 0s 4ms/step - loss: 8671942.0000
Epoch 546/5000
1/1 [=====] - 0s 4ms/step - loss: 8671639.0000
Epoch 547/5000
1/1 [=====] - 0s 4ms/step - loss: 8671343.0000
Epoch 548/5000
1/1 [=====] - 0s 4ms/step - loss: 8671045.0000
Epoch 549/5000
1/1 [=====] - 0s 4ms/step - loss: 8670755.0000
Epoch 550/5000
1/1 [=====] - 0s 3ms/step - loss: 8670455.0000
Epoch 551/5000
1/1 [=====] - 0s 4ms/step - loss: 8670166.0000
Epoch 552/5000
1/1 [=====] - 0s 4ms/step - loss: 8669881.0000
Epoch 553/5000
1/1 [=====] - 0s 4ms/step - loss: 8669595.0000
Epoch 554/5000
1/1 [=====] - 0s 3ms/step - loss: 8669307.0000
Epoch 555/5000
1/1 [=====] - 0s 3ms/step - loss: 8669030.0000
Epoch 556/5000
1/1 [=====] - 0s 4ms/step - loss: 8668755.0000
Epoch 557/5000
1/1 [=====] - 0s 4ms/step - loss: 8668472.0000
Epoch 558/5000
1/1 [=====] - 0s 9ms/step - loss: 8668199.0000
Epoch 559/5000
1/1 [=====] - 0s 4ms/step - loss: 8667922.0000

Epoch 560/5000
1/1 [=====] - 0s 3ms/step - loss: 8667659.0000
Epoch 561/5000
1/1 [=====] - 0s 3ms/step - loss: 8667385.0000
Epoch 562/5000
1/1 [=====] - 0s 2ms/step - loss: 8667117.0000
Epoch 563/5000
1/1 [=====] - 0s 4ms/step - loss: 8666856.0000
Epoch 564/5000
1/1 [=====] - 0s 4ms/step - loss: 8666590.0000
Epoch 565/5000
1/1 [=====] - 0s 4ms/step - loss: 8666328.0000
Epoch 566/5000
1/1 [=====] - 0s 3ms/step - loss: 8666067.0000
Epoch 567/5000
1/1 [=====] - 0s 3ms/step - loss: 8665817.0000
Epoch 568/5000
1/1 [=====] - 0s 3ms/step - loss: 8665567.0000
Epoch 569/5000
1/1 [=====] - 0s 3ms/step - loss: 8665309.0000
Epoch 570/5000
1/1 [=====] - 0s 3ms/step - loss: 8665059.0000
Epoch 571/5000
1/1 [=====] - 0s 3ms/step - loss: 8664807.0000
Epoch 572/5000
1/1 [=====] - 0s 3ms/step - loss: 8664563.0000
Epoch 573/5000
1/1 [=====] - 0s 3ms/step - loss: 8664323.0000
Epoch 574/5000
1/1 [=====] - 0s 3ms/step - loss: 8664076.0000
Epoch 575/5000
1/1 [=====] - 0s 2ms/step - loss: 8663830.0000
Epoch 576/5000
1/1 [=====] - 0s 2ms/step - loss: 8663595.0000
Epoch 577/5000
1/1 [=====] - 0s 3ms/step - loss: 8663355.0000
Epoch 578/5000
1/1 [=====] - 0s 4ms/step - loss: 8663123.0000
Epoch 579/5000
1/1 [=====] - 0s 4ms/step - loss: 8662885.0000
Epoch 580/5000
1/1 [=====] - 0s 4ms/step - loss: 8662654.0000
Epoch 581/5000
1/1 [=====] - 0s 5ms/step - loss: 8662430.0000
Epoch 582/5000
1/1 [=====] - 0s 4ms/step - loss: 8662196.0000
Epoch 583/5000
1/1 [=====] - 0s 4ms/step - loss: 8661966.0000

Epoch 584/5000
1/1 [=====] - 0s 3ms/step - loss: 8661746.0000
Epoch 585/5000
1/1 [=====] - 0s 3ms/step - loss: 8661517.0000
Epoch 586/5000
1/1 [=====] - 0s 3ms/step - loss: 8661299.0000
Epoch 587/5000
1/1 [=====] - 0s 3ms/step - loss: 8661082.0000
Epoch 588/5000
1/1 [=====] - 0s 2ms/step - loss: 8660861.0000
Epoch 589/5000
1/1 [=====] - 0s 3ms/step - loss: 8660649.0000
Epoch 590/5000
1/1 [=====] - 0s 3ms/step - loss: 8660434.0000
Epoch 591/5000
1/1 [=====] - 0s 3ms/step - loss: 8660217.0000
Epoch 592/5000
1/1 [=====] - 0s 3ms/step - loss: 8660011.0000
Epoch 593/5000
1/1 [=====] - 0s 3ms/step - loss: 8659801.0000
Epoch 594/5000
1/1 [=====] - 0s 3ms/step - loss: 8659585.0000
Epoch 595/5000
1/1 [=====] - 0s 3ms/step - loss: 8659383.0000
Epoch 596/5000
1/1 [=====] - 0s 3ms/step - loss: 8659178.0000
Epoch 597/5000
1/1 [=====] - 0s 2ms/step - loss: 8658977.0000
Epoch 598/5000
1/1 [=====] - 0s 4ms/step - loss: 8658774.0000
Epoch 599/5000
1/1 [=====] - 0s 4ms/step - loss: 8658574.0000
Epoch 600/5000
1/1 [=====] - 0s 2ms/step - loss: 8658371.0000
Epoch 601/5000
1/1 [=====] - 0s 3ms/step - loss: 8658173.0000
Epoch 602/5000
1/1 [=====] - 0s 3ms/step - loss: 8657971.0000
Epoch 603/5000
1/1 [=====] - 0s 4ms/step - loss: 8657785.0000
Epoch 604/5000
1/1 [=====] - 0s 3ms/step - loss: 8657594.0000
Epoch 605/5000
1/1 [=====] - 0s 3ms/step - loss: 8657387.0000
Epoch 606/5000
1/1 [=====] - 0s 3ms/step - loss: 8657210.0000
Epoch 607/5000
1/1 [=====] - 0s 3ms/step - loss: 8657021.0000

Epoch 608/5000
1/1 [=====] - 0s 3ms/step - loss: 8656829.0000
Epoch 609/5000
1/1 [=====] - 0s 4ms/step - loss: 8656652.0000
Epoch 610/5000
1/1 [=====] - 0s 4ms/step - loss: 8656465.0000
Epoch 611/5000
1/1 [=====] - 0s 4ms/step - loss: 8656285.0000
Epoch 612/5000
1/1 [=====] - 0s 3ms/step - loss: 8656101.0000
Epoch 613/5000
1/1 [=====] - 0s 3ms/step - loss: 8655923.0000
Epoch 614/5000
1/1 [=====] - 0s 4ms/step - loss: 8655743.0000
Epoch 615/5000
1/1 [=====] - 0s 3ms/step - loss: 8655567.0000
Epoch 616/5000
1/1 [=====] - 0s 3ms/step - loss: 8655391.0000
Epoch 617/5000
1/1 [=====] - 0s 2ms/step - loss: 8655213.0000
Epoch 618/5000
1/1 [=====] - 0s 3ms/step - loss: 8655036.0000
Epoch 619/5000
1/1 [=====] - 0s 3ms/step - loss: 8654873.0000
Epoch 620/5000
1/1 [=====] - 0s 3ms/step - loss: 8654697.0000
Epoch 621/5000
1/1 [=====] - 0s 2ms/step - loss: 8654530.0000
Epoch 622/5000
1/1 [=====] - 0s 2ms/step - loss: 8654362.0000
Epoch 623/5000
1/1 [=====] - 0s 2ms/step - loss: 8654195.0000
Epoch 624/5000
1/1 [=====] - 0s 3ms/step - loss: 8654033.0000
Epoch 625/5000
1/1 [=====] - 0s 3ms/step - loss: 8653869.0000
Epoch 626/5000
1/1 [=====] - 0s 3ms/step - loss: 8653705.0000
Epoch 627/5000
1/1 [=====] - 0s 4ms/step - loss: 8653537.0000
Epoch 628/5000
1/1 [=====] - 0s 4ms/step - loss: 8653376.0000
Epoch 629/5000
1/1 [=====] - 0s 4ms/step - loss: 8653220.0000
Epoch 630/5000
1/1 [=====] - 0s 3ms/step - loss: 8653062.0000
Epoch 631/5000
1/1 [=====] - 0s 3ms/step - loss: 8652906.0000

Epoch 632/5000
1/1 [=====] - 0s 3ms/step - loss: 8652750.0000
Epoch 633/5000
1/1 [=====] - 0s 4ms/step - loss: 8652599.0000
Epoch 634/5000
1/1 [=====] - 0s 3ms/step - loss: 8652445.0000
Epoch 635/5000
1/1 [=====] - 0s 3ms/step - loss: 8652293.0000
Epoch 636/5000
1/1 [=====] - 0s 2ms/step - loss: 8652143.0000
Epoch 637/5000
1/1 [=====] - 0s 4ms/step - loss: 8651987.0000
Epoch 638/5000
1/1 [=====] - 0s 3ms/step - loss: 8651847.0000
Epoch 639/5000
1/1 [=====] - 0s 3ms/step - loss: 8651699.0000
Epoch 640/5000
1/1 [=====] - 0s 3ms/step - loss: 8651551.0000
Epoch 641/5000
1/1 [=====] - 0s 3ms/step - loss: 8651406.0000
Epoch 642/5000
1/1 [=====] - 0s 3ms/step - loss: 8651263.0000
Epoch 643/5000
1/1 [=====] - 0s 3ms/step - loss: 8651121.0000
Epoch 644/5000
1/1 [=====] - 0s 3ms/step - loss: 8650975.0000
Epoch 645/5000
1/1 [=====] - 0s 4ms/step - loss: 8650839.0000
Epoch 646/5000
1/1 [=====] - 0s 4ms/step - loss: 8650694.0000
Epoch 647/5000
1/1 [=====] - 0s 4ms/step - loss: 8650562.0000
Epoch 648/5000
1/1 [=====] - 0s 4ms/step - loss: 8650419.0000
Epoch 649/5000
1/1 [=====] - 0s 4ms/step - loss: 8650290.0000
Epoch 650/5000
1/1 [=====] - 0s 4ms/step - loss: 8650150.0000
Epoch 651/5000
1/1 [=====] - 0s 4ms/step - loss: 8650029.0000
Epoch 652/5000
1/1 [=====] - 0s 3ms/step - loss: 8649882.0000
Epoch 653/5000
1/1 [=====] - 0s 4ms/step - loss: 8649749.0000
Epoch 654/5000
1/1 [=====] - 0s 3ms/step - loss: 8649618.0000
Epoch 655/5000
1/1 [=====] - 0s 3ms/step - loss: 8649485.0000

Epoch 656/5000
1/1 [=====] - 0s 3ms/step - loss: 8649363.0000
Epoch 657/5000
1/1 [=====] - 0s 3ms/step - loss: 8649231.0000
Epoch 658/5000
1/1 [=====] - 0s 4ms/step - loss: 8649101.0000
Epoch 659/5000
1/1 [=====] - 0s 3ms/step - loss: 8648981.0000
Epoch 660/5000
1/1 [=====] - 0s 4ms/step - loss: 8648851.0000
Epoch 661/5000
1/1 [=====] - 0s 4ms/step - loss: 8648725.0000
Epoch 662/5000
1/1 [=====] - 0s 4ms/step - loss: 8648608.0000
Epoch 663/5000
1/1 [=====] - 0s 4ms/step - loss: 8648482.0000
Epoch 664/5000
1/1 [=====] - 0s 3ms/step - loss: 8648359.0000
Epoch 665/5000
1/1 [=====] - 0s 4ms/step - loss: 8648239.0000
Epoch 666/5000
1/1 [=====] - 0s 4ms/step - loss: 8648118.0000
Epoch 667/5000
1/1 [=====] - 0s 4ms/step - loss: 8648007.0000
Epoch 668/5000
1/1 [=====] - 0s 4ms/step - loss: 8647885.0000
Epoch 669/5000
1/1 [=====] - 0s 4ms/step - loss: 8647763.0000
Epoch 670/5000
1/1 [=====] - 0s 4ms/step - loss: 8647650.0000
Epoch 671/5000
1/1 [=====] - 0s 4ms/step - loss: 8647536.0000
Epoch 672/5000
1/1 [=====] - 0s 3ms/step - loss: 8647421.0000
Epoch 673/5000
1/1 [=====] - 0s 3ms/step - loss: 8647309.0000
Epoch 674/5000
1/1 [=====] - 0s 3ms/step - loss: 8647195.0000
Epoch 675/5000
1/1 [=====] - 0s 4ms/step - loss: 8647080.0000
Epoch 676/5000
1/1 [=====] - 0s 4ms/step - loss: 8646975.0000
Epoch 677/5000
1/1 [=====] - 0s 4ms/step - loss: 8646863.0000
Epoch 678/5000
1/1 [=====] - 0s 3ms/step - loss: 8646751.0000
Epoch 679/5000
1/1 [=====] - 0s 3ms/step - loss: 8646646.0000

Epoch 680/5000
1/1 [=====] - 0s 4ms/step - loss: 8646538.0000
Epoch 681/5000
1/1 [=====] - 0s 4ms/step - loss: 8646434.0000
Epoch 682/5000
1/1 [=====] - 0s 3ms/step - loss: 8646329.0000
Epoch 683/5000
1/1 [=====] - 0s 3ms/step - loss: 8646222.0000
Epoch 684/5000
1/1 [=====] - 0s 3ms/step - loss: 8646119.0000
Epoch 685/5000
1/1 [=====] - 0s 4ms/step - loss: 8646010.0000
Epoch 686/5000
1/1 [=====] - 0s 3ms/step - loss: 8645910.0000
Epoch 687/5000
1/1 [=====] - 0s 3ms/step - loss: 8645808.0000
Epoch 688/5000
1/1 [=====] - 0s 4ms/step - loss: 8645707.0000
Epoch 689/5000
1/1 [=====] - 0s 4ms/step - loss: 8645613.0000
Epoch 690/5000
1/1 [=====] - 0s 3ms/step - loss: 8645505.0000
Epoch 691/5000
1/1 [=====] - 0s 3ms/step - loss: 8645414.0000
Epoch 692/5000
1/1 [=====] - 0s 4ms/step - loss: 8645310.0000
Epoch 693/5000
1/1 [=====] - 0s 3ms/step - loss: 8645213.0000
Epoch 694/5000
1/1 [=====] - 0s 4ms/step - loss: 8645118.0000
Epoch 695/5000
1/1 [=====] - 0s 3ms/step - loss: 8645023.0000
Epoch 696/5000
1/1 [=====] - 0s 3ms/step - loss: 8644927.0000
Epoch 697/5000
1/1 [=====] - 0s 3ms/step - loss: 8644832.0000
Epoch 698/5000
1/1 [=====] - 0s 9ms/step - loss: 8644745.0000
Epoch 699/5000
1/1 [=====] - 0s 3ms/step - loss: 8644648.0000
Epoch 700/5000
1/1 [=====] - 0s 4ms/step - loss: 8644558.0000
Epoch 701/5000
1/1 [=====] - 0s 3ms/step - loss: 8644465.0000
Epoch 702/5000
1/1 [=====] - 0s 3ms/step - loss: 8644371.0000
Epoch 703/5000
1/1 [=====] - 0s 3ms/step - loss: 8644277.0000

Epoch 704/5000
1/1 [=====] - 0s 2ms/step - loss: 8644192.0000
Epoch 705/5000
1/1 [=====] - 0s 3ms/step - loss: 8644103.0000
Epoch 706/5000
1/1 [=====] - 0s 5ms/step - loss: 8644019.0000
Epoch 707/5000
1/1 [=====] - 0s 4ms/step - loss: 8643930.0000
Epoch 708/5000
1/1 [=====] - 0s 4ms/step - loss: 8643848.0000
Epoch 709/5000
1/1 [=====] - 0s 4ms/step - loss: 8643760.0000
Epoch 710/5000
1/1 [=====] - 0s 4ms/step - loss: 8643674.0000
Epoch 711/5000
1/1 [=====] - 0s 4ms/step - loss: 8643593.0000
Epoch 712/5000
1/1 [=====] - 0s 4ms/step - loss: 8643506.0000
Epoch 713/5000
1/1 [=====] - 0s 4ms/step - loss: 8643422.0000
Epoch 714/5000
1/1 [=====] - 0s 4ms/step - loss: 8643339.0000
Epoch 715/5000
1/1 [=====] - 0s 4ms/step - loss: 8643254.0000
Epoch 716/5000
1/1 [=====] - 0s 4ms/step - loss: 8643178.0000
Epoch 717/5000
1/1 [=====] - 0s 4ms/step - loss: 8643081.0000
Epoch 718/5000
1/1 [=====] - 0s 5ms/step - loss: 8643011.0000
Epoch 719/5000
1/1 [=====] - 0s 3ms/step - loss: 8642934.0000
Epoch 720/5000
1/1 [=====] - 0s 2ms/step - loss: 8642857.0000
Epoch 721/5000
1/1 [=====] - 0s 2ms/step - loss: 8642778.0000
Epoch 722/5000
1/1 [=====] - 0s 3ms/step - loss: 8642699.0000
Epoch 723/5000
1/1 [=====] - 0s 4ms/step - loss: 8642619.0000
Epoch 724/5000
1/1 [=====] - 0s 4ms/step - loss: 8642543.0000
Epoch 725/5000
1/1 [=====] - 0s 4ms/step - loss: 8642474.0000
Epoch 726/5000
1/1 [=====] - 0s 4ms/step - loss: 8642395.0000
Epoch 727/5000
1/1 [=====] - 0s 4ms/step - loss: 8642321.0000

Epoch 728/5000
1/1 [=====] - 0s 4ms/step - loss: 8642246.0000
Epoch 729/5000
1/1 [=====] - 0s 4ms/step - loss: 8642169.0000
Epoch 730/5000
1/1 [=====] - 0s 4ms/step - loss: 8642101.0000
Epoch 731/5000
1/1 [=====] - 0s 4ms/step - loss: 8642028.0000
Epoch 732/5000
1/1 [=====] - 0s 4ms/step - loss: 8641955.0000
Epoch 733/5000
1/1 [=====] - 0s 4ms/step - loss: 8641879.0000
Epoch 734/5000
1/1 [=====] - 0s 4ms/step - loss: 8641809.0000
Epoch 735/5000
1/1 [=====] - 0s 4ms/step - loss: 8641745.0000
Epoch 736/5000
1/1 [=====] - 0s 4ms/step - loss: 8641668.0000
Epoch 737/5000
1/1 [=====] - 0s 4ms/step - loss: 8641608.0000
Epoch 738/5000
1/1 [=====] - 0s 3ms/step - loss: 8641532.0000
Epoch 739/5000
1/1 [=====] - 0s 4ms/step - loss: 8641471.0000
Epoch 740/5000
1/1 [=====] - 0s 3ms/step - loss: 8641402.0000
Epoch 741/5000
1/1 [=====] - 0s 3ms/step - loss: 8641331.0000
Epoch 742/5000
1/1 [=====] - 0s 4ms/step - loss: 8641265.0000
Epoch 743/5000
1/1 [=====] - 0s 3ms/step - loss: 8641198.0000
Epoch 744/5000
1/1 [=====] - 0s 3ms/step - loss: 8641133.0000
Epoch 745/5000
1/1 [=====] - 0s 3ms/step - loss: 8641071.0000
Epoch 746/5000
1/1 [=====] - 0s 4ms/step - loss: 8641006.0000
Epoch 747/5000
1/1 [=====] - 0s 5ms/step - loss: 8640946.0000
Epoch 748/5000
1/1 [=====] - 0s 5ms/step - loss: 8640878.0000
Epoch 749/5000
1/1 [=====] - 0s 5ms/step - loss: 8640810.0000
Epoch 750/5000
1/1 [=====] - 0s 4ms/step - loss: 8640747.0000
Epoch 751/5000
1/1 [=====] - 0s 4ms/step - loss: 8640683.0000

Epoch 752/5000
1/1 [=====] - 0s 4ms/step - loss: 8640622.0000
Epoch 753/5000
1/1 [=====] - 0s 5ms/step - loss: 8640562.0000
Epoch 754/5000
1/1 [=====] - 0s 4ms/step - loss: 8640506.0000
Epoch 755/5000
1/1 [=====] - 0s 4ms/step - loss: 8640446.0000
Epoch 756/5000
1/1 [=====] - 0s 4ms/step - loss: 8640389.0000
Epoch 757/5000
1/1 [=====] - 0s 4ms/step - loss: 8640322.0000
Epoch 758/5000
1/1 [=====] - 0s 4ms/step - loss: 8640263.0000
Epoch 759/5000
1/1 [=====] - 0s 4ms/step - loss: 8640206.0000
Epoch 760/5000
1/1 [=====] - 0s 3ms/step - loss: 8640148.0000
Epoch 761/5000
1/1 [=====] - 0s 3ms/step - loss: 8640092.0000
Epoch 762/5000
1/1 [=====] - 0s 4ms/step - loss: 8640037.0000
Epoch 763/5000
1/1 [=====] - 0s 3ms/step - loss: 8639975.0000
Epoch 764/5000
1/1 [=====] - 0s 4ms/step - loss: 8639927.0000
Epoch 765/5000
1/1 [=====] - 0s 4ms/step - loss: 8639863.0000
Epoch 766/5000
1/1 [=====] - 0s 5ms/step - loss: 8639814.0000
Epoch 767/5000
1/1 [=====] - 0s 4ms/step - loss: 8639757.0000
Epoch 768/5000
1/1 [=====] - 0s 5ms/step - loss: 8639699.0000
Epoch 769/5000
1/1 [=====] - 0s 4ms/step - loss: 8639648.0000
Epoch 770/5000
1/1 [=====] - 0s 5ms/step - loss: 8639593.0000
Epoch 771/5000
1/1 [=====] - 0s 3ms/step - loss: 8639535.0000
Epoch 772/5000
1/1 [=====] - 0s 4ms/step - loss: 8639493.0000
Epoch 773/5000
1/1 [=====] - 0s 4ms/step - loss: 8639439.0000
Epoch 774/5000
1/1 [=====] - 0s 4ms/step - loss: 8639383.0000
Epoch 775/5000
1/1 [=====] - 0s 4ms/step - loss: 8639330.0000

Epoch 776/5000
1/1 [=====] - 0s 4ms/step - loss: 8639282.0000
Epoch 777/5000
1/1 [=====] - 0s 3ms/step - loss: 8639230.0000
Epoch 778/5000
1/1 [=====] - 0s 3ms/step - loss: 8639177.0000
Epoch 779/5000
1/1 [=====] - 0s 3ms/step - loss: 8639129.0000
Epoch 780/5000
1/1 [=====] - 0s 3ms/step - loss: 8639081.0000
Epoch 781/5000
1/1 [=====] - 0s 4ms/step - loss: 8639030.0000
Epoch 782/5000
1/1 [=====] - 0s 4ms/step - loss: 8638985.0000
Epoch 783/5000
1/1 [=====] - 0s 3ms/step - loss: 8638937.0000
Epoch 784/5000
1/1 [=====] - 0s 4ms/step - loss: 8638883.0000
Epoch 785/5000
1/1 [=====] - 0s 4ms/step - loss: 8638832.0000
Epoch 786/5000
1/1 [=====] - 0s 4ms/step - loss: 8638788.0000
Epoch 787/5000
1/1 [=====] - 0s 5ms/step - loss: 8638747.0000
Epoch 788/5000
1/1 [=====] - 0s 4ms/step - loss: 8638697.0000
Epoch 789/5000
1/1 [=====] - 0s 4ms/step - loss: 8638648.0000
Epoch 790/5000
1/1 [=====] - 0s 4ms/step - loss: 8638602.0000
Epoch 791/5000
1/1 [=====] - 0s 4ms/step - loss: 8638559.0000
Epoch 792/5000
1/1 [=====] - 0s 4ms/step - loss: 8638517.0000
Epoch 793/5000
1/1 [=====] - 0s 3ms/step - loss: 8638465.0000
Epoch 794/5000
1/1 [=====] - 0s 4ms/step - loss: 8638426.0000
Epoch 795/5000
1/1 [=====] - 0s 4ms/step - loss: 8638383.0000
Epoch 796/5000
1/1 [=====] - 0s 3ms/step - loss: 8638335.0000
Epoch 797/5000
1/1 [=====] - 0s 4ms/step - loss: 8638292.0000
Epoch 798/5000
1/1 [=====] - 0s 5ms/step - loss: 8638243.0000
Epoch 799/5000
1/1 [=====] - 0s 4ms/step - loss: 8638206.0000

Epoch 800/5000
1/1 [=====] - 0s 4ms/step - loss: 8638161.0000
Epoch 801/5000
1/1 [=====] - 0s 4ms/step - loss: 8638116.0000
Epoch 802/5000
1/1 [=====] - 0s 7ms/step - loss: 8638078.0000
Epoch 803/5000
1/1 [=====] - 0s 3ms/step - loss: 8638036.0000
Epoch 804/5000
1/1 [=====] - 0s 3ms/step - loss: 8637998.0000
Epoch 805/5000
1/1 [=====] - 0s 4ms/step - loss: 8637961.0000
Epoch 806/5000
1/1 [=====] - 0s 3ms/step - loss: 8637919.0000
Epoch 807/5000
1/1 [=====] - 0s 4ms/step - loss: 8637878.0000
Epoch 808/5000
1/1 [=====] - 0s 4ms/step - loss: 8637835.0000
Epoch 809/5000
1/1 [=====] - 0s 5ms/step - loss: 8637795.0000
Epoch 810/5000
1/1 [=====] - 0s 3ms/step - loss: 8637755.0000
Epoch 811/5000
1/1 [=====] - 0s 3ms/step - loss: 8637719.0000
Epoch 812/5000
1/1 [=====] - 0s 3ms/step - loss: 8637679.0000
Epoch 813/5000
1/1 [=====] - 0s 2ms/step - loss: 8637639.0000
Epoch 814/5000
1/1 [=====] - 0s 3ms/step - loss: 8637598.0000
Epoch 815/5000
1/1 [=====] - 0s 3ms/step - loss: 8637557.0000
Epoch 816/5000
1/1 [=====] - 0s 2ms/step - loss: 8637522.0000
Epoch 817/5000
1/1 [=====] - 0s 3ms/step - loss: 8637490.0000
Epoch 818/5000
1/1 [=====] - 0s 3ms/step - loss: 8637450.0000
Epoch 819/5000
1/1 [=====] - 0s 2ms/step - loss: 8637414.0000
Epoch 820/5000
1/1 [=====] - 0s 2ms/step - loss: 8637379.0000
Epoch 821/5000
1/1 [=====] - 0s 3ms/step - loss: 8637337.0000
Epoch 822/5000
1/1 [=====] - 0s 5ms/step - loss: 8637304.0000
Epoch 823/5000
1/1 [=====] - 0s 3ms/step - loss: 8637270.0000

Epoch 824/5000
1/1 [=====] - 0s 3ms/step - loss: 8637229.0000
Epoch 825/5000
1/1 [=====] - 0s 2ms/step - loss: 8637197.0000
Epoch 826/5000
1/1 [=====] - 0s 3ms/step - loss: 8637160.0000
Epoch 827/5000
1/1 [=====] - 0s 4ms/step - loss: 8637129.0000
Epoch 828/5000
1/1 [=====] - 0s 4ms/step - loss: 8637090.0000
Epoch 829/5000
1/1 [=====] - 0s 4ms/step - loss: 8637059.0000
Epoch 830/5000
1/1 [=====] - 0s 4ms/step - loss: 8637023.0000
Epoch 831/5000
1/1 [=====] - 0s 4ms/step - loss: 8636987.0000
Epoch 832/5000
1/1 [=====] - 0s 3ms/step - loss: 8636960.0000
Epoch 833/5000
1/1 [=====] - 0s 3ms/step - loss: 8636932.0000
Epoch 834/5000
1/1 [=====] - 0s 3ms/step - loss: 8636894.0000
Epoch 835/5000
1/1 [=====] - 0s 3ms/step - loss: 8636857.0000
Epoch 836/5000
1/1 [=====] - 0s 3ms/step - loss: 8636826.0000
Epoch 837/5000
1/1 [=====] - 0s 4ms/step - loss: 8636801.0000
Epoch 838/5000
1/1 [=====] - 0s 4ms/step - loss: 8636767.0000
Epoch 839/5000
1/1 [=====] - 0s 3ms/step - loss: 8636731.0000
Epoch 840/5000
1/1 [=====] - 0s 4ms/step - loss: 8636703.0000
Epoch 841/5000
1/1 [=====] - 0s 4ms/step - loss: 8636669.0000
Epoch 842/5000
1/1 [=====] - 0s 3ms/step - loss: 8636638.0000
Epoch 843/5000
1/1 [=====] - 0s 3ms/step - loss: 8636608.0000
Epoch 844/5000
1/1 [=====] - 0s 3ms/step - loss: 8636582.0000
Epoch 845/5000
1/1 [=====] - 0s 3ms/step - loss: 8636547.0000
Epoch 846/5000
1/1 [=====] - 0s 3ms/step - loss: 8636519.0000
Epoch 847/5000
1/1 [=====] - 0s 3ms/step - loss: 8636490.0000

Epoch 848/5000
1/1 [=====] - 0s 2ms/step - loss: 8636462.0000
Epoch 849/5000
1/1 [=====] - 0s 3ms/step - loss: 8636437.0000
Epoch 850/5000
1/1 [=====] - 0s 3ms/step - loss: 8636401.0000
Epoch 851/5000
1/1 [=====] - 0s 3ms/step - loss: 8636369.0000
Epoch 852/5000
1/1 [=====] - 0s 3ms/step - loss: 8636346.0000
Epoch 853/5000
1/1 [=====] - 0s 3ms/step - loss: 8636314.0000
Epoch 854/5000
1/1 [=====] - 0s 3ms/step - loss: 8636290.0000
Epoch 855/5000
1/1 [=====] - 0s 3ms/step - loss: 8636257.0000
Epoch 856/5000
1/1 [=====] - 0s 3ms/step - loss: 8636233.0000
Epoch 857/5000
1/1 [=====] - 0s 3ms/step - loss: 8636206.0000
Epoch 858/5000
1/1 [=====] - 0s 4ms/step - loss: 8636177.0000
Epoch 859/5000
1/1 [=====] - 0s 4ms/step - loss: 8636152.0000
Epoch 860/5000
1/1 [=====] - 0s 4ms/step - loss: 8636121.0000
Epoch 861/5000
1/1 [=====] - 0s 2ms/step - loss: 8636093.0000
Epoch 862/5000
1/1 [=====] - 0s 3ms/step - loss: 8636069.0000
Epoch 863/5000
1/1 [=====] - 0s 3ms/step - loss: 8636044.0000
Epoch 864/5000
1/1 [=====] - 0s 3ms/step - loss: 8636014.0000
Epoch 865/5000
1/1 [=====] - 0s 3ms/step - loss: 8635992.0000
Epoch 866/5000
1/1 [=====] - 0s 3ms/step - loss: 8635962.0000
Epoch 867/5000
1/1 [=====] - 0s 5ms/step - loss: 8635947.0000
Epoch 868/5000
1/1 [=====] - 0s 5ms/step - loss: 8635917.0000
Epoch 869/5000
1/1 [=====] - 0s 4ms/step - loss: 8635893.0000
Epoch 870/5000
1/1 [=====] - 0s 2ms/step - loss: 8635865.0000
Epoch 871/5000
1/1 [=====] - 0s 2ms/step - loss: 8635840.0000

Epoch 872/5000
1/1 [=====] - 0s 3ms/step - loss: 8635813.0000
Epoch 873/5000
1/1 [=====] - 0s 3ms/step - loss: 8635793.0000
Epoch 874/5000
1/1 [=====] - 0s 5ms/step - loss: 8635769.0000
Epoch 875/5000
1/1 [=====] - 0s 4ms/step - loss: 8635749.0000
Epoch 876/5000
1/1 [=====] - 0s 4ms/step - loss: 8635722.0000
Epoch 877/5000
1/1 [=====] - 0s 4ms/step - loss: 8635699.0000
Epoch 878/5000
1/1 [=====] - 0s 3ms/step - loss: 8635670.0000
Epoch 879/5000
1/1 [=====] - 0s 3ms/step - loss: 8635649.0000
Epoch 880/5000
1/1 [=====] - 0s 3ms/step - loss: 8635627.0000
Epoch 881/5000
1/1 [=====] - 0s 3ms/step - loss: 8635608.0000
Epoch 882/5000
1/1 [=====] - 0s 3ms/step - loss: 8635584.0000
Epoch 883/5000
1/1 [=====] - 0s 3ms/step - loss: 8635561.0000
Epoch 884/5000
1/1 [=====] - 0s 3ms/step - loss: 8635542.0000
Epoch 885/5000
1/1 [=====] - 0s 3ms/step - loss: 8635517.0000
Epoch 886/5000
1/1 [=====] - 0s 3ms/step - loss: 8635497.0000
Epoch 887/5000
1/1 [=====] - 0s 4ms/step - loss: 8635467.0000
Epoch 888/5000
1/1 [=====] - 0s 2ms/step - loss: 8635449.0000
Epoch 889/5000
1/1 [=====] - 0s 3ms/step - loss: 8635425.0000
Epoch 890/5000
1/1 [=====] - 0s 2ms/step - loss: 8635407.0000
Epoch 891/5000
1/1 [=====] - 0s 3ms/step - loss: 8635386.0000
Epoch 892/5000
1/1 [=====] - 0s 3ms/step - loss: 8635365.0000
Epoch 893/5000
1/1 [=====] - 0s 3ms/step - loss: 8635346.0000
Epoch 894/5000
1/1 [=====] - 0s 4ms/step - loss: 8635319.0000
Epoch 895/5000
1/1 [=====] - 0s 3ms/step - loss: 8635301.0000

Epoch 896/5000
1/1 [=====] - 0s 2ms/step - loss: 8635283.0000
Epoch 897/5000
1/1 [=====] - 0s 3ms/step - loss: 8635262.0000
Epoch 898/5000
1/1 [=====] - 0s 4ms/step - loss: 8635240.0000
Epoch 899/5000
1/1 [=====] - 0s 3ms/step - loss: 8635225.0000
Epoch 900/5000
1/1 [=====] - 0s 4ms/step - loss: 8635198.0000
Epoch 901/5000
1/1 [=====] - 0s 4ms/step - loss: 8635178.0000
Epoch 902/5000
1/1 [=====] - 0s 4ms/step - loss: 8635167.0000
Epoch 903/5000
1/1 [=====] - 0s 3ms/step - loss: 8635142.0000
Epoch 904/5000
1/1 [=====] - 0s 3ms/step - loss: 8635129.0000
Epoch 905/5000
1/1 [=====] - 0s 4ms/step - loss: 8635100.0000
Epoch 906/5000
1/1 [=====] - 0s 4ms/step - loss: 8635090.0000
Epoch 907/5000
1/1 [=====] - 0s 3ms/step - loss: 8635065.0000
Epoch 908/5000
1/1 [=====] - 0s 4ms/step - loss: 8635054.0000
Epoch 909/5000
1/1 [=====] - 0s 4ms/step - loss: 8635033.0000
Epoch 910/5000
1/1 [=====] - 0s 3ms/step - loss: 8635013.0000
Epoch 911/5000
1/1 [=====] - 0s 4ms/step - loss: 8634999.0000
Epoch 912/5000
1/1 [=====] - 0s 4ms/step - loss: 8634973.0000
Epoch 913/5000
1/1 [=====] - 0s 3ms/step - loss: 8634958.0000
Epoch 914/5000
1/1 [=====] - 0s 2ms/step - loss: 8634944.0000
Epoch 915/5000
1/1 [=====] - 0s 3ms/step - loss: 8634922.0000
Epoch 916/5000
1/1 [=====] - 0s 2ms/step - loss: 8634906.0000
Epoch 917/5000
1/1 [=====] - 0s 3ms/step - loss: 8634889.0000
Epoch 918/5000
1/1 [=====] - 0s 3ms/step - loss: 8634871.0000
Epoch 919/5000
1/1 [=====] - 0s 4ms/step - loss: 8634850.0000

Epoch 920/5000
1/1 [=====] - 0s 4ms/step - loss: 8634844.0000
Epoch 921/5000
1/1 [=====] - 0s 4ms/step - loss: 8634826.0000
Epoch 922/5000
1/1 [=====] - 0s 3ms/step - loss: 8634805.0000
Epoch 923/5000
1/1 [=====] - 0s 3ms/step - loss: 8634791.0000
Epoch 924/5000
1/1 [=====] - 0s 3ms/step - loss: 8634767.0000
Epoch 925/5000
1/1 [=====] - 0s 3ms/step - loss: 8634754.0000
Epoch 926/5000
1/1 [=====] - 0s 4ms/step - loss: 8634740.0000
Epoch 927/5000
1/1 [=====] - 0s 6ms/step - loss: 8634727.0000
Epoch 928/5000
1/1 [=====] - 0s 5ms/step - loss: 8634712.0000
Epoch 929/5000
1/1 [=====] - 0s 5ms/step - loss: 8634694.0000
Epoch 930/5000
1/1 [=====] - 0s 6ms/step - loss: 8634677.0000
Epoch 931/5000
1/1 [=====] - 0s 3ms/step - loss: 8634662.0000
Epoch 932/5000
1/1 [=====] - 0s 7ms/step - loss: 8634642.0000
Epoch 933/5000
1/1 [=====] - 0s 3ms/step - loss: 8634629.0000
Epoch 934/5000
1/1 [=====] - 0s 3ms/step - loss: 8634611.0000
Epoch 935/5000
1/1 [=====] - 0s 3ms/step - loss: 8634599.0000
Epoch 936/5000
1/1 [=====] - 0s 4ms/step - loss: 8634582.0000
Epoch 937/5000
1/1 [=====] - 0s 3ms/step - loss: 8634574.0000
Epoch 938/5000
1/1 [=====] - 0s 3ms/step - loss: 8634560.0000
Epoch 939/5000
1/1 [=====] - 0s 4ms/step - loss: 8634544.0000
Epoch 940/5000
1/1 [=====] - 0s 2ms/step - loss: 8634534.0000
Epoch 941/5000
1/1 [=====] - 0s 3ms/step - loss: 8634513.0000
Epoch 942/5000
1/1 [=====] - 0s 3ms/step - loss: 8634495.0000
Epoch 943/5000
1/1 [=====] - 0s 3ms/step - loss: 8634481.0000

Epoch 944/5000
1/1 [=====] - 0s 4ms/step - loss: 8634469.0000
Epoch 945/5000
1/1 [=====] - 0s 4ms/step - loss: 8634455.0000
Epoch 946/5000
1/1 [=====] - 0s 2ms/step - loss: 8634439.0000
Epoch 947/5000
1/1 [=====] - 0s 4ms/step - loss: 8634427.0000
Epoch 948/5000
1/1 [=====] - 0s 4ms/step - loss: 8634418.0000
Epoch 949/5000
1/1 [=====] - 0s 3ms/step - loss: 8634401.0000
Epoch 950/5000
1/1 [=====] - 0s 4ms/step - loss: 8634391.0000
Epoch 951/5000
1/1 [=====] - 0s 3ms/step - loss: 8634376.0000
Epoch 952/5000
1/1 [=====] - 0s 4ms/step - loss: 8634362.0000
Epoch 953/5000
1/1 [=====] - 0s 4ms/step - loss: 8634350.0000
Epoch 954/5000
1/1 [=====] - 0s 4ms/step - loss: 8634337.0000
Epoch 955/5000
1/1 [=====] - 0s 3ms/step - loss: 8634322.0000
Epoch 956/5000
1/1 [=====] - 0s 3ms/step - loss: 8634305.0000
Epoch 957/5000
1/1 [=====] - 0s 3ms/step - loss: 8634295.0000
Epoch 958/5000
1/1 [=====] - 0s 2ms/step - loss: 8634284.0000
Epoch 959/5000
1/1 [=====] - 0s 2ms/step - loss: 8634278.0000
Epoch 960/5000
1/1 [=====] - 0s 3ms/step - loss: 8634257.0000
Epoch 961/5000
1/1 [=====] - 0s 3ms/step - loss: 8634241.0000
Epoch 962/5000
1/1 [=====] - 0s 3ms/step - loss: 8634229.0000
Epoch 963/5000
1/1 [=====] - 0s 3ms/step - loss: 8634229.0000
Epoch 964/5000
1/1 [=====] - 0s 3ms/step - loss: 8634210.0000
Epoch 965/5000
1/1 [=====] - 0s 2ms/step - loss: 8634198.0000
Epoch 966/5000
1/1 [=====] - 0s 3ms/step - loss: 8634182.0000
Epoch 967/5000
1/1 [=====] - 0s 2ms/step - loss: 8634170.0000

Epoch 968/5000
1/1 [=====] - 0s 2ms/step - loss: 8634161.0000
Epoch 969/5000
1/1 [=====] - 0s 2ms/step - loss: 8634153.0000
Epoch 970/5000
1/1 [=====] - 0s 2ms/step - loss: 8634136.0000
Epoch 971/5000
1/1 [=====] - 0s 3ms/step - loss: 8634131.0000
Epoch 972/5000
1/1 [=====] - 0s 3ms/step - loss: 8634117.0000
Epoch 973/5000
1/1 [=====] - 0s 2ms/step - loss: 8634101.0000
Epoch 974/5000
1/1 [=====] - 0s 2ms/step - loss: 8634088.0000
Epoch 975/5000
1/1 [=====] - 0s 7ms/step - loss: 8634087.0000
Epoch 976/5000
1/1 [=====] - 0s 4ms/step - loss: 8634077.0000
Epoch 977/5000
1/1 [=====] - 0s 3ms/step - loss: 8634062.0000
Epoch 978/5000
1/1 [=====] - 0s 2ms/step - loss: 8634051.0000
Epoch 979/5000
1/1 [=====] - 0s 2ms/step - loss: 8634041.0000
Epoch 980/5000
1/1 [=====] - 0s 2ms/step - loss: 8634024.0000
Epoch 981/5000
1/1 [=====] - 0s 3ms/step - loss: 8634019.0000
Epoch 982/5000
1/1 [=====] - 0s 3ms/step - loss: 8634011.0000
Epoch 983/5000
1/1 [=====] - 0s 3ms/step - loss: 8633997.0000
Epoch 984/5000
1/1 [=====] - 0s 2ms/step - loss: 8633992.0000
Epoch 985/5000
1/1 [=====] - 0s 3ms/step - loss: 8633981.0000
Epoch 986/5000
1/1 [=====] - 0s 3ms/step - loss: 8633971.0000
Epoch 987/5000
1/1 [=====] - 0s 3ms/step - loss: 8633961.0000
Epoch 988/5000
1/1 [=====] - 0s 2ms/step - loss: 8633950.0000
Epoch 989/5000
1/1 [=====] - 0s 3ms/step - loss: 8633937.0000
Epoch 990/5000
1/1 [=====] - 0s 3ms/step - loss: 8633934.0000
Epoch 991/5000
1/1 [=====] - 0s 2ms/step - loss: 8633922.0000

Epoch 992/5000
1/1 [=====] - 0s 2ms/step - loss: 8633910.0000
Epoch 993/5000
1/1 [=====] - 0s 3ms/step - loss: 8633899.0000
Epoch 994/5000
1/1 [=====] - 0s 3ms/step - loss: 8633893.0000
Epoch 995/5000
1/1 [=====] - 0s 2ms/step - loss: 8633875.0000
Epoch 996/5000
1/1 [=====] - 0s 3ms/step - loss: 8633869.0000
Epoch 997/5000
1/1 [=====] - 0s 4ms/step - loss: 8633857.0000
Epoch 998/5000
1/1 [=====] - 0s 3ms/step - loss: 8633853.0000
Epoch 999/5000
1/1 [=====] - 0s 4ms/step - loss: 8633845.0000
Epoch 1000/5000
1/1 [=====] - 0s 3ms/step - loss: 8633838.0000
Epoch 1001/5000
1/1 [=====] - 0s 2ms/step - loss: 8633826.0000
Epoch 1002/5000
1/1 [=====] - 0s 2ms/step - loss: 8633813.0000
Epoch 1003/5000
1/1 [=====] - 0s 2ms/step - loss: 8633805.0000
Epoch 1004/5000
1/1 [=====] - 0s 3ms/step - loss: 8633798.0000
Epoch 1005/5000
1/1 [=====] - 0s 3ms/step - loss: 8633791.0000
Epoch 1006/5000
1/1 [=====] - 0s 3ms/step - loss: 8633776.0000
Epoch 1007/5000
1/1 [=====] - 0s 3ms/step - loss: 8633767.0000
Epoch 1008/5000
1/1 [=====] - 0s 2ms/step - loss: 8633767.0000
Epoch 1009/5000
1/1 [=====] - 0s 2ms/step - loss: 8633754.0000
Epoch 1010/5000
1/1 [=====] - 0s 3ms/step - loss: 8633743.0000
Epoch 1011/5000
1/1 [=====] - 0s 3ms/step - loss: 8633738.0000
Epoch 1012/5000
1/1 [=====] - 0s 3ms/step - loss: 8633731.0000
Epoch 1013/5000
1/1 [=====] - 0s 3ms/step - loss: 8633721.0000
Epoch 1014/5000
1/1 [=====] - 0s 3ms/step - loss: 8633717.0000
Epoch 1015/5000
1/1 [=====] - 0s 2ms/step - loss: 8633706.0000

Epoch 1016/5000
1/1 [=====] - 0s 3ms/step - loss: 8633698.0000
Epoch 1017/5000
1/1 [=====] - 0s 2ms/step - loss: 8633693.0000
Epoch 1018/5000
1/1 [=====] - 0s 2ms/step - loss: 8633673.0000
Epoch 1019/5000
1/1 [=====] - 0s 4ms/step - loss: 8633673.0000
Epoch 1020/5000
1/1 [=====] - 0s 3ms/step - loss: 8633662.0000
Epoch 1021/5000
1/1 [=====] - 0s 3ms/step - loss: 8633657.0000
Epoch 1022/5000
1/1 [=====] - 0s 3ms/step - loss: 8633647.0000
Epoch 1023/5000
1/1 [=====] - 0s 3ms/step - loss: 8633642.0000
Epoch 1024/5000
1/1 [=====] - 0s 3ms/step - loss: 8633637.0000
Epoch 1025/5000
1/1 [=====] - 0s 3ms/step - loss: 8633621.0000
Epoch 1026/5000
1/1 [=====] - 0s 3ms/step - loss: 8633618.0000
Epoch 1027/5000
1/1 [=====] - 0s 2ms/step - loss: 8633613.0000
Epoch 1028/5000
1/1 [=====] - 0s 3ms/step - loss: 8633602.0000
Epoch 1029/5000
1/1 [=====] - 0s 3ms/step - loss: 8633602.0000
Epoch 1030/5000
1/1 [=====] - 0s 2ms/step - loss: 8633589.0000
Epoch 1031/5000
1/1 [=====] - 0s 3ms/step - loss: 8633578.0000
Epoch 1032/5000
1/1 [=====] - 0s 3ms/step - loss: 8633579.0000
Epoch 1033/5000
1/1 [=====] - 0s 3ms/step - loss: 8633563.0000
Epoch 1034/5000
1/1 [=====] - 0s 3ms/step - loss: 8633561.0000
Epoch 1035/5000
1/1 [=====] - 0s 3ms/step - loss: 8633555.0000
Epoch 1036/5000
1/1 [=====] - 0s 2ms/step - loss: 8633545.0000
Epoch 1037/5000
1/1 [=====] - 0s 4ms/step - loss: 8633546.0000
Epoch 1038/5000
1/1 [=====] - 0s 3ms/step - loss: 8633530.0000
Epoch 1039/5000
1/1 [=====] - 0s 4ms/step - loss: 8633523.0000

Epoch 1040/5000
1/1 [=====] - 0s 2ms/step - loss: 8633522.0000
Epoch 1041/5000
1/1 [=====] - 0s 3ms/step - loss: 8633519.0000
Epoch 1042/5000
1/1 [=====] - 0s 3ms/step - loss: 8633505.0000
Epoch 1043/5000
1/1 [=====] - 0s 2ms/step - loss: 8633495.0000
Epoch 1044/5000
1/1 [=====] - 0s 3ms/step - loss: 8633493.0000
Epoch 1045/5000
1/1 [=====] - 0s 3ms/step - loss: 8633487.0000
Epoch 1046/5000
1/1 [=====] - 0s 4ms/step - loss: 8633481.0000
Epoch 1047/5000
1/1 [=====] - 0s 3ms/step - loss: 8633472.0000
Epoch 1048/5000
1/1 [=====] - 0s 3ms/step - loss: 8633465.0000
Epoch 1049/5000
1/1 [=====] - 0s 2ms/step - loss: 8633461.0000
Epoch 1050/5000
1/1 [=====] - 0s 3ms/step - loss: 8633461.0000
Epoch 1051/5000
1/1 [=====] - 0s 4ms/step - loss: 8633454.0000
Epoch 1052/5000
1/1 [=====] - 0s 3ms/step - loss: 8633440.0000
Epoch 1053/5000
1/1 [=====] - 0s 2ms/step - loss: 8633435.0000
Epoch 1054/5000
1/1 [=====] - 0s 3ms/step - loss: 8633435.0000
Epoch 1055/5000
1/1 [=====] - 0s 3ms/step - loss: 8633422.0000
Epoch 1056/5000
1/1 [=====] - 0s 3ms/step - loss: 8633417.0000
Epoch 1057/5000
1/1 [=====] - 0s 3ms/step - loss: 8633416.0000
Epoch 1058/5000
1/1 [=====] - 0s 4ms/step - loss: 8633411.0000
Epoch 1059/5000
1/1 [=====] - 0s 3ms/step - loss: 8633399.0000
Epoch 1060/5000
1/1 [=====] - 0s 3ms/step - loss: 8633394.0000
Epoch 1061/5000
1/1 [=====] - 0s 2ms/step - loss: 8633389.0000
Epoch 1062/5000
1/1 [=====] - 0s 3ms/step - loss: 8633384.0000
Epoch 1063/5000
1/1 [=====] - 0s 3ms/step - loss: 8633385.0000

Epoch 1064/5000
1/1 [=====] - 0s 3ms/step - loss: 8633376.0000
Epoch 1065/5000
1/1 [=====] - 0s 2ms/step - loss: 8633370.0000
Epoch 1066/5000
1/1 [=====] - 0s 3ms/step - loss: 8633362.0000
Epoch 1067/5000
1/1 [=====] - 0s 3ms/step - loss: 8633363.0000
Epoch 1068/5000
1/1 [=====] - 0s 3ms/step - loss: 8633352.0000
Epoch 1069/5000
1/1 [=====] - 0s 4ms/step - loss: 8633344.0000
Epoch 1070/5000
1/1 [=====] - 0s 3ms/step - loss: 8633339.0000
Epoch 1071/5000
1/1 [=====] - 0s 4ms/step - loss: 8633335.0000
Epoch 1072/5000
1/1 [=====] - 0s 3ms/step - loss: 8633329.0000
Epoch 1073/5000
1/1 [=====] - 0s 4ms/step - loss: 8633325.0000
Epoch 1074/5000
1/1 [=====] - 0s 2ms/step - loss: 8633326.0000
Epoch 1075/5000
1/1 [=====] - 0s 3ms/step - loss: 8633312.0000
Epoch 1076/5000
1/1 [=====] - 0s 3ms/step - loss: 8633314.0000
Epoch 1077/5000
1/1 [=====] - 0s 3ms/step - loss: 8633305.0000
Epoch 1078/5000
1/1 [=====] - 0s 3ms/step - loss: 8633299.0000
Epoch 1079/5000
1/1 [=====] - 0s 3ms/step - loss: 8633293.0000
Epoch 1080/5000
1/1 [=====] - 0s 2ms/step - loss: 8633289.0000
Epoch 1081/5000
1/1 [=====] - 0s 4ms/step - loss: 8633283.0000
Epoch 1082/5000
1/1 [=====] - 0s 2ms/step - loss: 8633278.0000
Epoch 1083/5000
1/1 [=====] - 0s 2ms/step - loss: 8633275.0000
Epoch 1084/5000
1/1 [=====] - 0s 3ms/step - loss: 8633269.0000
Epoch 1085/5000
1/1 [=====] - 0s 3ms/step - loss: 8633264.0000
Epoch 1086/5000
1/1 [=====] - 0s 4ms/step - loss: 8633265.0000
Epoch 1087/5000
1/1 [=====] - 0s 2ms/step - loss: 8633256.0000

Epoch 1088/5000
1/1 [=====] - 0s 3ms/step - loss: 8633256.0000
Epoch 1089/5000
1/1 [=====] - 0s 3ms/step - loss: 8633249.0000
Epoch 1090/5000
1/1 [=====] - 0s 3ms/step - loss: 8633247.0000
Epoch 1091/5000
1/1 [=====] - 0s 4ms/step - loss: 8633234.0000
Epoch 1092/5000
1/1 [=====] - 0s 5ms/step - loss: 8633237.0000
Epoch 1093/5000
1/1 [=====] - 0s 4ms/step - loss: 8633232.0000
Epoch 1094/5000
1/1 [=====] - 0s 4ms/step - loss: 8633224.0000
Epoch 1095/5000
1/1 [=====] - 0s 4ms/step - loss: 8633217.0000
Epoch 1096/5000
1/1 [=====] - 0s 3ms/step - loss: 8633217.0000
Epoch 1097/5000
1/1 [=====] - 0s 3ms/step - loss: 8633207.0000
Epoch 1098/5000
1/1 [=====] - 0s 3ms/step - loss: 8633206.0000
Epoch 1099/5000
1/1 [=====] - 0s 3ms/step - loss: 8633202.0000
Epoch 1100/5000
1/1 [=====] - 0s 3ms/step - loss: 8633195.0000
Epoch 1101/5000
1/1 [=====] - 0s 3ms/step - loss: 8633201.0000
Epoch 1102/5000
1/1 [=====] - 0s 3ms/step - loss: 8633190.0000
Epoch 1103/5000
1/1 [=====] - 0s 3ms/step - loss: 8633187.0000
Epoch 1104/5000
1/1 [=====] - 0s 2ms/step - loss: 8633178.0000
Epoch 1105/5000
1/1 [=====] - 0s 2ms/step - loss: 8633185.0000
Epoch 1106/5000
1/1 [=====] - 0s 2ms/step - loss: 8633175.0000
Epoch 1107/5000
1/1 [=====] - 0s 3ms/step - loss: 8633165.0000
Epoch 1108/5000
1/1 [=====] - 0s 3ms/step - loss: 8633167.0000
Epoch 1109/5000
1/1 [=====] - 0s 3ms/step - loss: 8633160.0000
Epoch 1110/5000
1/1 [=====] - 0s 2ms/step - loss: 8633161.0000
Epoch 1111/5000
1/1 [=====] - 0s 3ms/step - loss: 8633156.0000

Epoch 1112/5000
1/1 [=====] - 0s 3ms/step - loss: 8633152.0000
Epoch 1113/5000
1/1 [=====] - 0s 3ms/step - loss: 8633148.0000
Epoch 1114/5000
1/1 [=====] - 0s 3ms/step - loss: 8633146.0000
Epoch 1115/5000
1/1 [=====] - 0s 2ms/step - loss: 8633139.0000
Epoch 1116/5000
1/1 [=====] - 0s 4ms/step - loss: 8633138.0000
Epoch 1117/5000
1/1 [=====] - 0s 4ms/step - loss: 8633129.0000
Epoch 1118/5000
1/1 [=====] - 0s 3ms/step - loss: 8633123.0000
Epoch 1119/5000
1/1 [=====] - 0s 3ms/step - loss: 8633125.0000
Epoch 1120/5000
1/1 [=====] - 0s 3ms/step - loss: 8633118.0000
Epoch 1121/5000
1/1 [=====] - 0s 4ms/step - loss: 8633123.0000
Epoch 1122/5000
1/1 [=====] - 0s 4ms/step - loss: 8633119.0000
Epoch 1123/5000
1/1 [=====] - 0s 3ms/step - loss: 8633107.0000
Epoch 1124/5000
1/1 [=====] - 0s 3ms/step - loss: 8633112.0000
Epoch 1125/5000
1/1 [=====] - 0s 3ms/step - loss: 8633100.0000
Epoch 1126/5000
1/1 [=====] - 0s 3ms/step - loss: 8633102.0000
Epoch 1127/5000
1/1 [=====] - 0s 3ms/step - loss: 8633098.0000
Epoch 1128/5000
1/1 [=====] - 0s 3ms/step - loss: 8633087.0000
Epoch 1129/5000
1/1 [=====] - 0s 3ms/step - loss: 8633091.0000
Epoch 1130/5000
1/1 [=====] - 0s 3ms/step - loss: 8633083.0000
Epoch 1131/5000
1/1 [=====] - 0s 3ms/step - loss: 8633083.0000
Epoch 1132/5000
1/1 [=====] - 0s 2ms/step - loss: 8633082.0000
Epoch 1133/5000
1/1 [=====] - 0s 4ms/step - loss: 8633078.0000
Epoch 1134/5000
1/1 [=====] - 0s 3ms/step - loss: 8633074.0000
Epoch 1135/5000
1/1 [=====] - 0s 4ms/step - loss: 8633071.0000

Epoch 1136/5000
1/1 [=====] - 0s 4ms/step - loss: 8633063.0000
Epoch 1137/5000
1/1 [=====] - 0s 3ms/step - loss: 8633068.0000
Epoch 1138/5000
1/1 [=====] - 0s 2ms/step - loss: 8633058.0000
Epoch 1139/5000
1/1 [=====] - 0s 2ms/step - loss: 8633054.0000
Epoch 1140/5000
1/1 [=====] - 0s 2ms/step - loss: 8633054.0000
Epoch 1141/5000
1/1 [=====] - 0s 4ms/step - loss: 8633054.0000
Epoch 1142/5000
1/1 [=====] - 0s 3ms/step - loss: 8633049.0000
Epoch 1143/5000
1/1 [=====] - 0s 4ms/step - loss: 8633045.0000
Epoch 1144/5000
1/1 [=====] - 0s 3ms/step - loss: 8633041.0000
Epoch 1145/5000
1/1 [=====] - 0s 3ms/step - loss: 8633041.0000
Epoch 1146/5000
1/1 [=====] - 0s 2ms/step - loss: 8633037.0000
Epoch 1147/5000
1/1 [=====] - 0s 3ms/step - loss: 8633035.0000
Epoch 1148/5000
1/1 [=====] - 0s 3ms/step - loss: 8633027.0000
Epoch 1149/5000
1/1 [=====] - 0s 2ms/step - loss: 8633024.0000
Epoch 1150/5000
1/1 [=====] - 0s 3ms/step - loss: 8633027.0000
Epoch 1151/5000
1/1 [=====] - 0s 2ms/step - loss: 8633022.0000
Epoch 1152/5000
1/1 [=====] - 0s 3ms/step - loss: 8633017.0000
Epoch 1153/5000
1/1 [=====] - 0s 3ms/step - loss: 8633018.0000
Epoch 1154/5000
1/1 [=====] - 0s 3ms/step - loss: 8633010.0000
Epoch 1155/5000
1/1 [=====] - 0s 3ms/step - loss: 8633013.0000
Epoch 1156/5000
1/1 [=====] - 0s 4ms/step - loss: 8633011.0000
Epoch 1157/5000
1/1 [=====] - 0s 3ms/step - loss: 8633001.0000
Epoch 1158/5000
1/1 [=====] - 0s 3ms/step - loss: 8632999.0000
Epoch 1159/5000
1/1 [=====] - 0s 4ms/step - loss: 8633002.0000

Epoch 1160/5000
1/1 [=====] - 0s 3ms/step - loss: 8632993.0000
Epoch 1161/5000
1/1 [=====] - 0s 4ms/step - loss: 8632993.0000
Epoch 1162/5000
1/1 [=====] - 0s 4ms/step - loss: 8632993.0000
Epoch 1163/5000
1/1 [=====] - 0s 3ms/step - loss: 8632992.0000
Epoch 1164/5000
1/1 [=====] - 0s 3ms/step - loss: 8632989.0000
Epoch 1165/5000
1/1 [=====] - 0s 3ms/step - loss: 8632988.0000
Epoch 1166/5000
1/1 [=====] - 0s 2ms/step - loss: 8632986.0000
Epoch 1167/5000
1/1 [=====] - 0s 3ms/step - loss: 8632981.0000
Epoch 1168/5000
1/1 [=====] - 0s 3ms/step - loss: 8632979.0000
Epoch 1169/5000
1/1 [=====] - 0s 3ms/step - loss: 8632975.0000
Epoch 1170/5000
1/1 [=====] - 0s 3ms/step - loss: 8632974.0000
Epoch 1171/5000
1/1 [=====] - 0s 3ms/step - loss: 8632969.0000
Epoch 1172/5000
1/1 [=====] - 0s 3ms/step - loss: 8632967.0000
Epoch 1173/5000
1/1 [=====] - 0s 2ms/step - loss: 8632967.0000
Epoch 1174/5000
1/1 [=====] - 0s 3ms/step - loss: 8632962.0000
Epoch 1175/5000
1/1 [=====] - 0s 3ms/step - loss: 8632956.0000
Epoch 1176/5000
1/1 [=====] - 0s 3ms/step - loss: 8632958.0000
Epoch 1177/5000
1/1 [=====] - 0s 3ms/step - loss: 8632951.0000
Epoch 1178/5000
1/1 [=====] - 0s 3ms/step - loss: 8632954.0000
Epoch 1179/5000
1/1 [=====] - 0s 3ms/step - loss: 8632948.0000
Epoch 1180/5000
1/1 [=====] - 0s 3ms/step - loss: 8632949.0000
Epoch 1181/5000
1/1 [=====] - 0s 3ms/step - loss: 8632944.0000
Epoch 1182/5000
1/1 [=====] - 0s 4ms/step - loss: 8632934.0000
Epoch 1183/5000
1/1 [=====] - 0s 4ms/step - loss: 8632941.0000

Epoch 1184/5000
1/1 [=====] - 0s 4ms/step - loss: 8632942.0000
Epoch 1185/5000
1/1 [=====] - 0s 3ms/step - loss: 8632941.0000
Epoch 1186/5000
1/1 [=====] - 0s 3ms/step - loss: 8632932.0000
Epoch 1187/5000
1/1 [=====] - 0s 2ms/step - loss: 8632930.0000
Epoch 1188/5000
1/1 [=====] - 0s 3ms/step - loss: 8632927.0000
Epoch 1189/5000
1/1 [=====] - 0s 3ms/step - loss: 8632926.0000
Epoch 1190/5000
1/1 [=====] - 0s 3ms/step - loss: 8632925.0000
Epoch 1191/5000
1/1 [=====] - 0s 3ms/step - loss: 8632929.0000
Epoch 1192/5000
1/1 [=====] - 0s 3ms/step - loss: 8632928.0000
Epoch 1193/5000
1/1 [=====] - 0s 4ms/step - loss: 8632922.0000
Epoch 1194/5000
1/1 [=====] - 0s 4ms/step - loss: 8632918.0000
Epoch 1195/5000
1/1 [=====] - 0s 3ms/step - loss: 8632919.0000
Epoch 1196/5000
1/1 [=====] - 0s 3ms/step - loss: 8632920.0000
Epoch 1197/5000
1/1 [=====] - 0s 3ms/step - loss: 8632915.0000
Epoch 1198/5000
1/1 [=====] - 0s 2ms/step - loss: 8632908.0000
Epoch 1199/5000
1/1 [=====] - 0s 2ms/step - loss: 8632907.0000
Epoch 1200/5000
1/1 [=====] - 0s 2ms/step - loss: 8632900.0000
Epoch 1201/5000
1/1 [=====] - 0s 3ms/step - loss: 8632910.0000
Epoch 1202/5000
1/1 [=====] - 0s 3ms/step - loss: 8632902.0000
Epoch 1203/5000
1/1 [=====] - 0s 2ms/step - loss: 8632894.0000
Epoch 1204/5000
1/1 [=====] - 0s 3ms/step - loss: 8632902.0000
Epoch 1205/5000
1/1 [=====] - 0s 4ms/step - loss: 8632899.0000
Epoch 1206/5000
1/1 [=====] - 0s 4ms/step - loss: 8632892.0000
Epoch 1207/5000
1/1 [=====] - 0s 4ms/step - loss: 8632887.0000

Epoch 1208/5000
1/1 [=====] - 0s 4ms/step - loss: 8632886.0000
Epoch 1209/5000
1/1 [=====] - 0s 5ms/step - loss: 8632891.0000
Epoch 1210/5000
1/1 [=====] - 0s 4ms/step - loss: 8632881.0000
Epoch 1211/5000
1/1 [=====] - 0s 4ms/step - loss: 8632886.0000
Epoch 1212/5000
1/1 [=====] - 0s 3ms/step - loss: 8632888.0000
Epoch 1213/5000
1/1 [=====] - 0s 3ms/step - loss: 8632878.0000
Epoch 1214/5000
1/1 [=====] - 0s 4ms/step - loss: 8632880.0000
Epoch 1215/5000
1/1 [=====] - 0s 4ms/step - loss: 8632883.0000
Epoch 1216/5000
1/1 [=====] - 0s 4ms/step - loss: 8632871.0000
Epoch 1217/5000
1/1 [=====] - 0s 3ms/step - loss: 8632875.0000
Epoch 1218/5000
1/1 [=====] - 0s 4ms/step - loss: 8632877.0000
Epoch 1219/5000
1/1 [=====] - 0s 3ms/step - loss: 8632870.0000
Epoch 1220/5000
1/1 [=====] - 0s 5ms/step - loss: 8632870.0000
Epoch 1221/5000
1/1 [=====] - 0s 4ms/step - loss: 8632871.0000
Epoch 1222/5000
1/1 [=====] - 0s 3ms/step - loss: 8632866.0000
Epoch 1223/5000
1/1 [=====] - 0s 4ms/step - loss: 8632867.0000
Epoch 1224/5000
1/1 [=====] - 0s 3ms/step - loss: 8632865.0000
Epoch 1225/5000
1/1 [=====] - 0s 2ms/step - loss: 8632864.0000
Epoch 1226/5000
1/1 [=====] - 0s 3ms/step - loss: 8632867.0000
Epoch 1227/5000
1/1 [=====] - 0s 3ms/step - loss: 8632859.0000
Epoch 1228/5000
1/1 [=====] - 0s 3ms/step - loss: 8632859.0000
Epoch 1229/5000
1/1 [=====] - 0s 3ms/step - loss: 8632855.0000
Epoch 1230/5000
1/1 [=====] - 0s 2ms/step - loss: 8632852.0000
Epoch 1231/5000
1/1 [=====] - 0s 2ms/step - loss: 8632855.0000

Epoch 1232/5000
1/1 [=====] - 0s 2ms/step - loss: 8632851.0000
Epoch 1233/5000
1/1 [=====] - 0s 3ms/step - loss: 8632854.0000
Epoch 1234/5000
1/1 [=====] - 0s 3ms/step - loss: 8632843.0000
Epoch 1235/5000
1/1 [=====] - 0s 2ms/step - loss: 8632844.0000
Epoch 1236/5000
1/1 [=====] - 0s 3ms/step - loss: 8632846.0000
Epoch 1237/5000
1/1 [=====] - 0s 2ms/step - loss: 8632845.0000
Epoch 1238/5000
1/1 [=====] - 0s 3ms/step - loss: 8632842.0000
Epoch 1239/5000
1/1 [=====] - 0s 3ms/step - loss: 8632839.0000
Epoch 1240/5000
1/1 [=====] - 0s 3ms/step - loss: 8632842.0000
Epoch 1241/5000
1/1 [=====] - 0s 2ms/step - loss: 8632841.0000
Epoch 1242/5000
1/1 [=====] - 0s 3ms/step - loss: 8632839.0000
Epoch 1243/5000
1/1 [=====] - 0s 3ms/step - loss: 8632833.0000
Epoch 1244/5000
1/1 [=====] - 0s 3ms/step - loss: 8632833.0000
Epoch 1245/5000
1/1 [=====] - 0s 2ms/step - loss: 8632831.0000
Epoch 1246/5000
1/1 [=====] - 0s 3ms/step - loss: 8632831.0000
Epoch 1247/5000
1/1 [=====] - 0s 2ms/step - loss: 8632830.0000
Epoch 1248/5000
1/1 [=====] - 0s 2ms/step - loss: 8632825.0000
Epoch 1249/5000
1/1 [=====] - 0s 2ms/step - loss: 8632827.0000
Epoch 1250/5000
1/1 [=====] - 0s 2ms/step - loss: 8632825.0000
Epoch 1251/5000
1/1 [=====] - 0s 3ms/step - loss: 8632826.0000
Epoch 1252/5000
1/1 [=====] - 0s 4ms/step - loss: 8632823.0000
Epoch 1253/5000
1/1 [=====] - 0s 4ms/step - loss: 8632821.0000
Epoch 1254/5000
1/1 [=====] - 0s 3ms/step - loss: 8632816.0000
Epoch 1255/5000
1/1 [=====] - 0s 3ms/step - loss: 8632821.0000

Epoch 1256/5000
1/1 [=====] - 0s 3ms/step - loss: 8632817.0000
Epoch 1257/5000
1/1 [=====] - 0s 3ms/step - loss: 8632816.0000
Epoch 1258/5000
1/1 [=====] - 0s 3ms/step - loss: 8632815.0000
Epoch 1259/5000
1/1 [=====] - 0s 3ms/step - loss: 8632810.0000
Epoch 1260/5000
1/1 [=====] - 0s 3ms/step - loss: 8632816.0000
Epoch 1261/5000
1/1 [=====] - 0s 4ms/step - loss: 8632813.0000
Epoch 1262/5000
1/1 [=====] - 0s 4ms/step - loss: 8632809.0000
Epoch 1263/5000
1/1 [=====] - 0s 3ms/step - loss: 8632807.0000
Epoch 1264/5000
1/1 [=====] - 0s 2ms/step - loss: 8632801.0000
Epoch 1265/5000
1/1 [=====] - 0s 3ms/step - loss: 8632814.0000
Epoch 1266/5000
1/1 [=====] - 0s 3ms/step - loss: 8632805.0000
Epoch 1267/5000
1/1 [=====] - 0s 3ms/step - loss: 8632804.0000
Epoch 1268/5000
1/1 [=====] - 0s 3ms/step - loss: 8632789.0000
Epoch 1269/5000
1/1 [=====] - 0s 2ms/step - loss: 8632801.0000
Epoch 1270/5000
1/1 [=====] - 0s 4ms/step - loss: 8632802.0000
Epoch 1271/5000
1/1 [=====] - 0s 2ms/step - loss: 8632801.0000
Epoch 1272/5000
1/1 [=====] - 0s 2ms/step - loss: 8632793.0000
Epoch 1273/5000
1/1 [=====] - 0s 4ms/step - loss: 8632800.0000
Epoch 1274/5000
1/1 [=====] - 0s 3ms/step - loss: 8632796.0000
Epoch 1275/5000
1/1 [=====] - 0s 2ms/step - loss: 8632793.0000
Epoch 1276/5000
1/1 [=====] - 0s 2ms/step - loss: 8632797.0000
Epoch 1277/5000
1/1 [=====] - 0s 3ms/step - loss: 8632797.0000
Epoch 1278/5000
1/1 [=====] - 0s 3ms/step - loss: 8632792.0000
Epoch 1279/5000
1/1 [=====] - 0s 2ms/step - loss: 8632794.0000

Epoch 1280/5000
1/1 [=====] - 0s 3ms/step - loss: 8632792.0000
Epoch 1281/5000
1/1 [=====] - 0s 2ms/step - loss: 8632791.0000
Epoch 1282/5000
1/1 [=====] - 0s 3ms/step - loss: 8632784.0000
Epoch 1283/5000
1/1 [=====] - 0s 3ms/step - loss: 8632789.0000
Epoch 1284/5000
1/1 [=====] - 0s 3ms/step - loss: 8632790.0000
Epoch 1285/5000
1/1 [=====] - 0s 4ms/step - loss: 8632781.0000
Epoch 1286/5000
1/1 [=====] - 0s 4ms/step - loss: 8632783.0000
Epoch 1287/5000
1/1 [=====] - 0s 3ms/step - loss: 8632789.0000
Epoch 1288/5000
1/1 [=====] - 0s 3ms/step - loss: 8632777.0000
Epoch 1289/5000
1/1 [=====] - 0s 4ms/step - loss: 8632777.0000
Epoch 1290/5000
1/1 [=====] - 0s 3ms/step - loss: 8632779.0000
Epoch 1291/5000
1/1 [=====] - 0s 3ms/step - loss: 8632783.0000
Epoch 1292/5000
1/1 [=====] - 0s 3ms/step - loss: 8632781.0000
Epoch 1293/5000
1/1 [=====] - 0s 5ms/step - loss: 8632775.0000
Epoch 1294/5000
1/1 [=====] - 0s 4ms/step - loss: 8632772.0000
Epoch 1295/5000
1/1 [=====] - 0s 4ms/step - loss: 8632777.0000
Epoch 1296/5000
1/1 [=====] - 0s 4ms/step - loss: 8632770.0000
Epoch 1297/5000
1/1 [=====] - 0s 3ms/step - loss: 8632769.0000
Epoch 1298/5000
1/1 [=====] - 0s 3ms/step - loss: 8632771.0000
Epoch 1299/5000
1/1 [=====] - 0s 3ms/step - loss: 8632773.0000
Epoch 1300/5000
1/1 [=====] - 0s 3ms/step - loss: 8632770.0000
Epoch 1301/5000
1/1 [=====] - 0s 4ms/step - loss: 8632767.0000
Epoch 1302/5000
1/1 [=====] - 0s 3ms/step - loss: 8632764.0000
Epoch 1303/5000
1/1 [=====] - 0s 3ms/step - loss: 8632766.0000

Epoch 1304/5000
1/1 [=====] - 0s 3ms/step - loss: 8632771.0000
Epoch 1305/5000
1/1 [=====] - 0s 3ms/step - loss: 8632771.0000
Epoch 1306/5000
1/1 [=====] - 0s 3ms/step - loss: 8632767.0000
Epoch 1307/5000
1/1 [=====] - 0s 3ms/step - loss: 8632763.0000
Epoch 1308/5000
1/1 [=====] - 0s 2ms/step - loss: 8632759.0000
Epoch 1309/5000
1/1 [=====] - 0s 3ms/step - loss: 8632759.0000
Epoch 1310/5000
1/1 [=====] - 0s 3ms/step - loss: 8632766.0000
Epoch 1311/5000
1/1 [=====] - 0s 3ms/step - loss: 8632764.0000
Epoch 1312/5000
1/1 [=====] - 0s 3ms/step - loss: 8632758.0000
Epoch 1313/5000
1/1 [=====] - 0s 3ms/step - loss: 8632759.0000
Epoch 1314/5000
1/1 [=====] - 0s 3ms/step - loss: 8632758.0000
Epoch 1315/5000
1/1 [=====] - 0s 3ms/step - loss: 8632752.0000
Epoch 1316/5000
1/1 [=====] - 0s 3ms/step - loss: 8632759.0000
Epoch 1317/5000
1/1 [=====] - 0s 3ms/step - loss: 8632757.0000
Epoch 1318/5000
1/1 [=====] - 0s 3ms/step - loss: 8632763.0000
Epoch 1319/5000
1/1 [=====] - 0s 2ms/step - loss: 8632755.0000
Epoch 1320/5000
1/1 [=====] - 0s 3ms/step - loss: 8632749.0000
Epoch 1321/5000
1/1 [=====] - 0s 2ms/step - loss: 8632752.0000
Epoch 1322/5000
1/1 [=====] - 0s 3ms/step - loss: 8632746.0000
Epoch 1323/5000
1/1 [=====] - 0s 2ms/step - loss: 8632749.0000
Epoch 1324/5000
1/1 [=====] - 0s 3ms/step - loss: 8632754.0000
Epoch 1325/5000
1/1 [=====] - 0s 3ms/step - loss: 8632748.0000
Epoch 1326/5000
1/1 [=====] - 0s 4ms/step - loss: 8632753.0000
Epoch 1327/5000
1/1 [=====] - 0s 5ms/step - loss: 8632750.0000

Epoch 1328/5000
1/1 [=====] - 0s 3ms/step - loss: 8632751.0000
Epoch 1329/5000
1/1 [=====] - 0s 3ms/step - loss: 8632749.0000
Epoch 1330/5000
1/1 [=====] - 0s 3ms/step - loss: 8632745.0000
Epoch 1331/5000
1/1 [=====] - 0s 3ms/step - loss: 8632743.0000
Epoch 1332/5000
1/1 [=====] - 0s 3ms/step - loss: 8632758.0000
Epoch 1333/5000
1/1 [=====] - 0s 2ms/step - loss: 8632741.0000
Epoch 1334/5000
1/1 [=====] - 0s 3ms/step - loss: 8632739.0000
Epoch 1335/5000
1/1 [=====] - 0s 3ms/step - loss: 8632739.0000
Epoch 1336/5000
1/1 [=====] - 0s 3ms/step - loss: 8632739.0000
Epoch 1337/5000
1/1 [=====] - 0s 3ms/step - loss: 8632741.0000
Epoch 1338/5000
1/1 [=====] - 0s 3ms/step - loss: 8632736.0000
Epoch 1339/5000
1/1 [=====] - 0s 3ms/step - loss: 8632738.0000
Epoch 1340/5000
1/1 [=====] - 0s 3ms/step - loss: 8632739.0000
Epoch 1341/5000
1/1 [=====] - 0s 3ms/step - loss: 8632737.0000
Epoch 1342/5000
1/1 [=====] - 0s 4ms/step - loss: 8632738.0000
Epoch 1343/5000
1/1 [=====] - 0s 3ms/step - loss: 8632737.0000
Epoch 1344/5000
1/1 [=====] - 0s 4ms/step - loss: 8632737.0000
Epoch 1345/5000
1/1 [=====] - 0s 2ms/step - loss: 8632734.0000
Epoch 1346/5000
1/1 [=====] - 0s 2ms/step - loss: 8632734.0000
Epoch 1347/5000
1/1 [=====] - 0s 3ms/step - loss: 8632735.0000
Epoch 1348/5000
1/1 [=====] - 0s 4ms/step - loss: 8632734.0000
Epoch 1349/5000
1/1 [=====] - 0s 3ms/step - loss: 8632733.0000
Epoch 1350/5000
1/1 [=====] - 0s 3ms/step - loss: 8632731.0000
Epoch 1351/5000
1/1 [=====] - 0s 3ms/step - loss: 8632732.0000

Epoch 1352/5000
1/1 [=====] - 0s 3ms/step - loss: 8632730.0000
Epoch 1353/5000
1/1 [=====] - 0s 4ms/step - loss: 8632728.0000
Epoch 1354/5000
1/1 [=====] - 0s 3ms/step - loss: 8632731.0000
Epoch 1355/5000
1/1 [=====] - 0s 3ms/step - loss: 8632730.0000
Epoch 1356/5000
1/1 [=====] - 0s 3ms/step - loss: 8632729.0000
Epoch 1357/5000
1/1 [=====] - 0s 2ms/step - loss: 8632728.0000
Epoch 1358/5000
1/1 [=====] - 0s 3ms/step - loss: 8632724.0000
Epoch 1359/5000
1/1 [=====] - 0s 4ms/step - loss: 8632727.0000
Epoch 1360/5000
1/1 [=====] - 0s 4ms/step - loss: 8632723.0000
Epoch 1361/5000
1/1 [=====] - 0s 3ms/step - loss: 8632721.0000
Epoch 1362/5000
1/1 [=====] - 0s 3ms/step - loss: 8632719.0000
Epoch 1363/5000
1/1 [=====] - 0s 3ms/step - loss: 8632722.0000
Epoch 1364/5000
1/1 [=====] - 0s 3ms/step - loss: 8632726.0000
Epoch 1365/5000
1/1 [=====] - 0s 2ms/step - loss: 8632721.0000
Epoch 1366/5000
1/1 [=====] - 0s 3ms/step - loss: 8632727.0000
Epoch 1367/5000
1/1 [=====] - 0s 3ms/step - loss: 8632722.0000
Epoch 1368/5000
1/1 [=====] - 0s 3ms/step - loss: 8632726.0000
Epoch 1369/5000
1/1 [=====] - 0s 2ms/step - loss: 8632726.0000
Epoch 1370/5000
1/1 [=====] - 0s 3ms/step - loss: 8632721.0000
Epoch 1371/5000
1/1 [=====] - 0s 3ms/step - loss: 8632721.0000
Epoch 1372/5000
1/1 [=====] - 0s 2ms/step - loss: 8632717.0000
Epoch 1373/5000
1/1 [=====] - 0s 3ms/step - loss: 8632717.0000
Epoch 1374/5000
1/1 [=====] - 0s 3ms/step - loss: 8632711.0000
Epoch 1375/5000
1/1 [=====] - 0s 2ms/step - loss: 8632714.0000

Epoch 1376/5000
1/1 [=====] - 0s 3ms/step - loss: 8632715.0000
Epoch 1377/5000
1/1 [=====] - 0s 2ms/step - loss: 8632720.0000
Epoch 1378/5000
1/1 [=====] - 0s 3ms/step - loss: 8632721.0000
Epoch 1379/5000
1/1 [=====] - 0s 2ms/step - loss: 8632720.0000
Epoch 1380/5000
1/1 [=====] - 0s 3ms/step - loss: 8632720.0000
Epoch 1381/5000
1/1 [=====] - 0s 3ms/step - loss: 8632713.0000
Epoch 1382/5000
1/1 [=====] - 0s 3ms/step - loss: 8632714.0000
Epoch 1383/5000
1/1 [=====] - 0s 3ms/step - loss: 8632711.0000
Epoch 1384/5000
1/1 [=====] - 0s 3ms/step - loss: 8632711.0000
Epoch 1385/5000
1/1 [=====] - 0s 2ms/step - loss: 8632711.0000
Epoch 1386/5000
1/1 [=====] - 0s 3ms/step - loss: 8632712.0000
Epoch 1387/5000
1/1 [=====] - 0s 2ms/step - loss: 8632721.0000
Epoch 1388/5000
1/1 [=====] - 0s 3ms/step - loss: 8632713.0000
Epoch 1389/5000
1/1 [=====] - 0s 4ms/step - loss: 8632713.0000
Epoch 1390/5000
1/1 [=====] - 0s 3ms/step - loss: 8632709.0000
Epoch 1391/5000
1/1 [=====] - 0s 2ms/step - loss: 8632710.0000
Epoch 1392/5000
1/1 [=====] - 0s 3ms/step - loss: 8632712.0000
Epoch 1393/5000
1/1 [=====] - 0s 3ms/step - loss: 8632711.0000
Epoch 1394/5000
1/1 [=====] - 0s 3ms/step - loss: 8632711.0000
Epoch 1395/5000
1/1 [=====] - 0s 3ms/step - loss: 8632711.0000
Epoch 1396/5000
1/1 [=====] - 0s 3ms/step - loss: 8632707.0000
Epoch 1397/5000
1/1 [=====] - 0s 3ms/step - loss: 8632705.0000
Epoch 1398/5000
1/1 [=====] - 0s 4ms/step - loss: 8632709.0000
Epoch 1399/5000
1/1 [=====] - 0s 2ms/step - loss: 8632712.0000

Epoch 1400/5000
1/1 [=====] - 0s 3ms/step - loss: 8632713.0000
Epoch 1401/5000
1/1 [=====] - 0s 3ms/step - loss: 8632704.0000
Epoch 1402/5000
1/1 [=====] - 0s 3ms/step - loss: 8632702.0000
Epoch 1403/5000
1/1 [=====] - 0s 3ms/step - loss: 8632698.0000
Epoch 1404/5000
1/1 [=====] - 0s 3ms/step - loss: 8632700.0000
Epoch 1405/5000
1/1 [=====] - 0s 3ms/step - loss: 8632702.0000
Epoch 1406/5000
1/1 [=====] - 0s 2ms/step - loss: 8632704.0000
Epoch 1407/5000
1/1 [=====] - 0s 2ms/step - loss: 8632700.0000
Epoch 1408/5000
1/1 [=====] - 0s 2ms/step - loss: 8632703.0000
Epoch 1409/5000
1/1 [=====] - 0s 2ms/step - loss: 8632703.0000
Epoch 1410/5000
1/1 [=====] - 0s 3ms/step - loss: 8632710.0000
Epoch 1411/5000
1/1 [=====] - 0s 3ms/step - loss: 8632705.0000
Epoch 1412/5000
1/1 [=====] - 0s 3ms/step - loss: 8632698.0000
Epoch 1413/5000
1/1 [=====] - 0s 3ms/step - loss: 8632703.0000
Epoch 1414/5000
1/1 [=====] - 0s 3ms/step - loss: 8632702.0000
Epoch 1415/5000
1/1 [=====] - 0s 3ms/step - loss: 8632699.0000
Epoch 1416/5000
1/1 [=====] - 0s 3ms/step - loss: 8632702.0000
Epoch 1417/5000
1/1 [=====] - 0s 3ms/step - loss: 8632700.0000
Epoch 1418/5000
1/1 [=====] - 0s 3ms/step - loss: 8632701.0000
Epoch 1419/5000
1/1 [=====] - 0s 3ms/step - loss: 8632702.0000
Epoch 1420/5000
1/1 [=====] - 0s 3ms/step - loss: 8632695.0000
Epoch 1421/5000
1/1 [=====] - 0s 3ms/step - loss: 8632698.0000
Epoch 1422/5000
1/1 [=====] - 0s 2ms/step - loss: 8632697.0000
Epoch 1423/5000
1/1 [=====] - 0s 3ms/step - loss: 8632699.0000

Epoch 1424/5000
1/1 [=====] - 0s 2ms/step - loss: 8632701.0000
Epoch 1425/5000
1/1 [=====] - 0s 3ms/step - loss: 8632696.0000
Epoch 1426/5000
1/1 [=====] - 0s 4ms/step - loss: 8632699.0000
Epoch 1427/5000
1/1 [=====] - 0s 4ms/step - loss: 8632703.0000
Epoch 1428/5000
1/1 [=====] - 0s 2ms/step - loss: 8632698.0000
Epoch 1429/5000
1/1 [=====] - 0s 3ms/step - loss: 8632693.0000
Epoch 1430/5000
1/1 [=====] - 0s 2ms/step - loss: 8632698.0000
Epoch 1431/5000
1/1 [=====] - 0s 2ms/step - loss: 8632699.0000
Epoch 1432/5000
1/1 [=====] - 0s 4ms/step - loss: 8632689.0000
Epoch 1433/5000
1/1 [=====] - 0s 3ms/step - loss: 8632697.0000
Epoch 1434/5000
1/1 [=====] - 0s 4ms/step - loss: 8632682.0000
Epoch 1435/5000
1/1 [=====] - 0s 2ms/step - loss: 8632699.0000
Epoch 1436/5000
1/1 [=====] - 0s 2ms/step - loss: 8632689.0000
Epoch 1437/5000
1/1 [=====] - 0s 3ms/step - loss: 8632697.0000
Epoch 1438/5000
1/1 [=====] - 0s 3ms/step - loss: 8632696.0000
Epoch 1439/5000
1/1 [=====] - 0s 4ms/step - loss: 8632693.0000
Epoch 1440/5000
1/1 [=====] - 0s 2ms/step - loss: 8632691.0000
Epoch 1441/5000
1/1 [=====] - 0s 2ms/step - loss: 8632694.0000
Epoch 1442/5000
1/1 [=====] - 0s 3ms/step - loss: 8632692.0000
Epoch 1443/5000
1/1 [=====] - 0s 3ms/step - loss: 8632688.0000
Epoch 1444/5000
1/1 [=====] - 0s 3ms/step - loss: 8632690.0000
Epoch 1445/5000
1/1 [=====] - 0s 2ms/step - loss: 8632692.0000
Epoch 1446/5000
1/1 [=====] - 0s 3ms/step - loss: 8632689.0000
Epoch 1447/5000
1/1 [=====] - 0s 3ms/step - loss: 8632690.0000

Epoch 1448/5000
1/1 [=====] - 0s 4ms/step - loss: 8632695.0000
Epoch 1449/5000
1/1 [=====] - 0s 3ms/step - loss: 8632686.0000
Epoch 1450/5000
1/1 [=====] - 0s 4ms/step - loss: 8632688.0000
Epoch 1451/5000
1/1 [=====] - 0s 2ms/step - loss: 8632693.0000
Epoch 1452/5000
1/1 [=====] - 0s 2ms/step - loss: 8632685.0000
Epoch 1453/5000
1/1 [=====] - 0s 2ms/step - loss: 8632687.0000
Epoch 1454/5000
1/1 [=====] - 0s 2ms/step - loss: 8632691.0000
Epoch 1455/5000
1/1 [=====] - 0s 3ms/step - loss: 8632682.0000
Epoch 1456/5000
1/1 [=====] - 0s 3ms/step - loss: 8632686.0000
Epoch 1457/5000
1/1 [=====] - 0s 3ms/step - loss: 8632689.0000
Epoch 1458/5000
1/1 [=====] - 0s 4ms/step - loss: 8632686.0000
Epoch 1459/5000
1/1 [=====] - 0s 4ms/step - loss: 8632685.0000
Epoch 1460/5000
1/1 [=====] - 0s 4ms/step - loss: 8632689.0000
Epoch 1461/5000
1/1 [=====] - 0s 3ms/step - loss: 8632683.0000
Epoch 1462/5000
1/1 [=====] - 0s 3ms/step - loss: 8632688.0000
Epoch 1463/5000
1/1 [=====] - 0s 2ms/step - loss: 8632688.0000
Epoch 1464/5000
1/1 [=====] - 0s 3ms/step - loss: 8632683.0000
Epoch 1465/5000
1/1 [=====] - 0s 3ms/step - loss: 8632688.0000
Epoch 1466/5000
1/1 [=====] - 0s 3ms/step - loss: 8632683.0000
Epoch 1467/5000
1/1 [=====] - 0s 4ms/step - loss: 8632687.0000
Epoch 1468/5000
1/1 [=====] - 0s 3ms/step - loss: 8632686.0000
Epoch 1469/5000
1/1 [=====] - 0s 3ms/step - loss: 8632682.0000
Epoch 1470/5000
1/1 [=====] - 0s 4ms/step - loss: 8632687.0000
Epoch 1471/5000
1/1 [=====] - 0s 4ms/step - loss: 8632688.0000

Epoch 1472/5000
1/1 [=====] - 0s 4ms/step - loss: 8632687.0000
Epoch 1473/5000
1/1 [=====] - 0s 3ms/step - loss: 8632685.0000
Epoch 1474/5000
1/1 [=====] - 0s 4ms/step - loss: 8632679.0000
Epoch 1475/5000
1/1 [=====] - 0s 3ms/step - loss: 8632678.0000
Epoch 1476/5000
1/1 [=====] - 0s 4ms/step - loss: 8632681.0000
Epoch 1477/5000
1/1 [=====] - 0s 4ms/step - loss: 8632679.0000
Epoch 1478/5000
1/1 [=====] - 0s 2ms/step - loss: 8632682.0000
Epoch 1479/5000
1/1 [=====] - 0s 2ms/step - loss: 8632681.0000
Epoch 1480/5000
1/1 [=====] - 0s 3ms/step - loss: 8632681.0000
Epoch 1481/5000
1/1 [=====] - 0s 3ms/step - loss: 8632681.0000
Epoch 1482/5000
1/1 [=====] - 0s 2ms/step - loss: 8632676.0000
Epoch 1483/5000
1/1 [=====] - 0s 3ms/step - loss: 8632681.0000
Epoch 1484/5000
1/1 [=====] - 0s 3ms/step - loss: 8632684.0000
Epoch 1485/5000
1/1 [=====] - 0s 4ms/step - loss: 8632685.0000
Epoch 1486/5000
1/1 [=====] - 0s 3ms/step - loss: 8632686.0000
Epoch 1487/5000
1/1 [=====] - 0s 3ms/step - loss: 8632677.0000
Epoch 1488/5000
1/1 [=====] - 0s 3ms/step - loss: 8632682.0000
Epoch 1489/5000
1/1 [=====] - 0s 4ms/step - loss: 8632679.0000
Epoch 1490/5000
1/1 [=====] - 0s 2ms/step - loss: 8632683.0000
Epoch 1491/5000
1/1 [=====] - 0s 4ms/step - loss: 8632679.0000
Epoch 1492/5000
1/1 [=====] - 0s 4ms/step - loss: 8632675.0000
Epoch 1493/5000
1/1 [=====] - 0s 4ms/step - loss: 8632686.0000
Epoch 1494/5000
1/1 [=====] - 0s 3ms/step - loss: 8632678.0000
Epoch 1495/5000
1/1 [=====] - 0s 3ms/step - loss: 8632678.0000

Epoch 1496/5000
1/1 [=====] - 0s 2ms/step - loss: 8632678.0000
Epoch 1497/5000
1/1 [=====] - 0s 3ms/step - loss: 8632678.0000
Epoch 1498/5000
1/1 [=====] - 0s 3ms/step - loss: 8632682.0000
Epoch 1499/5000
1/1 [=====] - 0s 4ms/step - loss: 8632681.0000
Epoch 1500/5000
1/1 [=====] - 0s 2ms/step - loss: 8632680.0000
Epoch 1501/5000
1/1 [=====] - 0s 3ms/step - loss: 8632674.0000
Epoch 1502/5000
1/1 [=====] - 0s 3ms/step - loss: 8632675.0000
Epoch 1503/5000
1/1 [=====] - 0s 2ms/step - loss: 8632678.0000
Epoch 1504/5000
1/1 [=====] - 0s 4ms/step - loss: 8632678.0000
Epoch 1505/5000
1/1 [=====] - 0s 5ms/step - loss: 8632674.0000
Epoch 1506/5000
1/1 [=====] - 0s 3ms/step - loss: 8632679.0000
Epoch 1507/5000
1/1 [=====] - 0s 3ms/step - loss: 8632676.0000
Epoch 1508/5000
1/1 [=====] - 0s 3ms/step - loss: 8632679.0000
Epoch 1509/5000
1/1 [=====] - 0s 3ms/step - loss: 8632682.0000
Epoch 1510/5000
1/1 [=====] - 0s 3ms/step - loss: 8632675.0000
Epoch 1511/5000
1/1 [=====] - 0s 3ms/step - loss: 8632675.0000
Epoch 1512/5000
1/1 [=====] - 0s 3ms/step - loss: 8632677.0000
Epoch 1513/5000
1/1 [=====] - 0s 3ms/step - loss: 8632678.0000
Epoch 1514/5000
1/1 [=====] - 0s 2ms/step - loss: 8632668.0000
Epoch 1515/5000
1/1 [=====] - 0s 3ms/step - loss: 8632679.0000
Epoch 1516/5000
1/1 [=====] - 0s 3ms/step - loss: 8632671.0000
Epoch 1517/5000
1/1 [=====] - 0s 3ms/step - loss: 8632679.0000
Epoch 1518/5000
1/1 [=====] - 0s 3ms/step - loss: 8632673.0000
Epoch 1519/5000
1/1 [=====] - 0s 2ms/step - loss: 8632672.0000

Epoch 1520/5000
1/1 [=====] - 0s 2ms/step - loss: 8632671.0000
Epoch 1521/5000
1/1 [=====] - 0s 2ms/step - loss: 8632673.0000
Epoch 1522/5000
1/1 [=====] - 0s 3ms/step - loss: 8632674.0000
Epoch 1523/5000
1/1 [=====] - 0s 2ms/step - loss: 8632672.0000
Epoch 1524/5000
1/1 [=====] - 0s 5ms/step - loss: 8632672.0000
Epoch 1525/5000
1/1 [=====] - 0s 3ms/step - loss: 8632672.0000
Epoch 1526/5000
1/1 [=====] - 0s 3ms/step - loss: 8632672.0000
Epoch 1527/5000
1/1 [=====] - 0s 3ms/step - loss: 8632671.0000
Epoch 1528/5000
1/1 [=====] - 0s 3ms/step - loss: 8632671.0000
Epoch 1529/5000
1/1 [=====] - 0s 4ms/step - loss: 8632672.0000
Epoch 1530/5000
1/1 [=====] - 0s 3ms/step - loss: 8632670.0000
Epoch 1531/5000
1/1 [=====] - 0s 3ms/step - loss: 8632669.0000
Epoch 1532/5000
1/1 [=====] - 0s 4ms/step - loss: 8632671.0000
Epoch 1533/5000
1/1 [=====] - 0s 2ms/step - loss: 8632677.0000
Epoch 1534/5000
1/1 [=====] - 0s 3ms/step - loss: 8632669.0000
Epoch 1535/5000
1/1 [=====] - 0s 3ms/step - loss: 8632675.0000
Epoch 1536/5000
1/1 [=====] - 0s 3ms/step - loss: 8632669.0000
Epoch 1537/5000
1/1 [=====] - 0s 5ms/step - loss: 8632671.0000
Epoch 1538/5000
1/1 [=====] - 0s 2ms/step - loss: 8632673.0000
Epoch 1539/5000
1/1 [=====] - 0s 3ms/step - loss: 8632670.0000
Epoch 1540/5000
1/1 [=====] - 0s 3ms/step - loss: 8632670.0000
Epoch 1541/5000
1/1 [=====] - 0s 5ms/step - loss: 8632668.0000
Epoch 1542/5000
1/1 [=====] - 0s 3ms/step - loss: 8632671.0000
Epoch 1543/5000
1/1 [=====] - 0s 3ms/step - loss: 8632673.0000

Epoch 1544/5000
1/1 [=====] - 0s 4ms/step - loss: 8632666.0000
Epoch 1545/5000
1/1 [=====] - 0s 3ms/step - loss: 8632674.0000
Epoch 1546/5000
1/1 [=====] - 0s 4ms/step - loss: 8632673.0000
Epoch 1547/5000
1/1 [=====] - 0s 3ms/step - loss: 8632668.0000
Epoch 1548/5000
1/1 [=====] - 0s 3ms/step - loss: 8632670.0000
Epoch 1549/5000
1/1 [=====] - 0s 4ms/step - loss: 8632674.0000
Epoch 1550/5000
1/1 [=====] - 0s 5ms/step - loss: 8632671.0000
Epoch 1551/5000
1/1 [=====] - 0s 5ms/step - loss: 8632667.0000
Epoch 1552/5000
1/1 [=====] - 0s 5ms/step - loss: 8632671.0000
Epoch 1553/5000
1/1 [=====] - 0s 3ms/step - loss: 8632671.0000
Epoch 1554/5000
1/1 [=====] - 0s 4ms/step - loss: 8632673.0000
Epoch 1555/5000
1/1 [=====] - 0s 4ms/step - loss: 8632663.0000
Epoch 1556/5000
1/1 [=====] - 0s 3ms/step - loss: 8632673.0000
Epoch 1557/5000
1/1 [=====] - 0s 2ms/step - loss: 8632670.0000
Epoch 1558/5000
1/1 [=====] - 0s 2ms/step - loss: 8632674.0000
Epoch 1559/5000
1/1 [=====] - 0s 3ms/step - loss: 8632663.0000
Epoch 1560/5000
1/1 [=====] - 0s 3ms/step - loss: 8632669.0000
Epoch 1561/5000
1/1 [=====] - 0s 4ms/step - loss: 8632671.0000
Epoch 1562/5000
1/1 [=====] - 0s 2ms/step - loss: 8632669.0000
Epoch 1563/5000
1/1 [=====] - 0s 2ms/step - loss: 8632671.0000
Epoch 1564/5000
1/1 [=====] - 0s 2ms/step - loss: 8632667.0000
Epoch 1565/5000
1/1 [=====] - 0s 3ms/step - loss: 8632668.0000
Epoch 1566/5000
1/1 [=====] - 0s 3ms/step - loss: 8632667.0000
Epoch 1567/5000
1/1 [=====] - 0s 4ms/step - loss: 8632671.0000

Epoch 1568/5000
1/1 [=====] - 0s 3ms/step - loss: 8632666.0000
Epoch 1569/5000
1/1 [=====] - 0s 3ms/step - loss: 8632670.0000
Epoch 1570/5000
1/1 [=====] - 0s 5ms/step - loss: 8632671.0000
Epoch 1571/5000
1/1 [=====] - 0s 3ms/step - loss: 8632665.0000
Epoch 1572/5000
1/1 [=====] - 0s 3ms/step - loss: 8632673.0000
Epoch 1573/5000
1/1 [=====] - 0s 2ms/step - loss: 8632665.0000
Epoch 1574/5000
1/1 [=====] - 0s 2ms/step - loss: 8632668.0000
Epoch 1575/5000
1/1 [=====] - 0s 3ms/step - loss: 8632667.0000
Epoch 1576/5000
1/1 [=====] - 0s 3ms/step - loss: 8632665.0000
Epoch 1577/5000
1/1 [=====] - 0s 3ms/step - loss: 8632666.0000
Epoch 1578/5000
1/1 [=====] - 0s 3ms/step - loss: 8632664.0000
Epoch 1579/5000
1/1 [=====] - 0s 3ms/step - loss: 8632670.0000
Epoch 1580/5000
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Epoch 1843/5000
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Epoch 1846/5000
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Epoch 1848/5000
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Epoch 1849/5000
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Epoch 1850/5000
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Epoch 1851/5000
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Epoch 1852/5000
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Epoch 1856/5000
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Epoch 1862/5000
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Epoch 1863/5000
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Epoch 1880/5000
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Epoch 1881/5000
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Epoch 1882/5000
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Epoch 1883/5000
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Epoch 1932/5000
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Epoch 1933/5000
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Epoch 1941/5000
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Epoch 1942/5000
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Epoch 2019/5000
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Epoch 2020/5000
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Epoch 2021/5000
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Epoch 2022/5000
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Epoch 2023/5000
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Epoch 2024/5000
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Epoch 2025/5000
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Epoch 2026/5000
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Epoch 2027/5000
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Epoch 2028/5000
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Epoch 2029/5000
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Epoch 2030/5000
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Epoch 2031/5000
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Epoch 2032/5000
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Epoch 2034/5000
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Epoch 2035/5000
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Epoch 2036/5000
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Epoch 2037/5000
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Epoch 2038/5000
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Epoch 2039/5000
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Epoch 2040/5000
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Epoch 2041/5000
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Epoch 2042/5000
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Epoch 2043/5000
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Epoch 2044/5000
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Epoch 2048/5000
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Epoch 2061/5000
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Epoch 2062/5000
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Epoch 2063/5000
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Epoch 2064/5000
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Epoch 2066/5000
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Epoch 2067/5000
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Epoch 2068/5000
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Epoch 2069/5000
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Epoch 2070/5000
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Epoch 2071/5000
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Epoch 2072/5000
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Epoch 2080/5000
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Epoch 2081/5000
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Epoch 2082/5000
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Epoch 2083/5000
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Epoch 2086/5000
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Epoch 2087/5000
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Epoch 2088/5000
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Epoch 2096/5000
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Epoch 2100/5000
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Epoch 2101/5000
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Epoch 2110/5000
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Epoch 2111/5000
1/1 [=====] - 0s 2ms/step - loss: 8632658.0000
Epoch 2112/5000
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Epoch 2113/5000
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Epoch 2114/5000
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Epoch 2115/5000
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Epoch 2116/5000
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Epoch 2117/5000
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Epoch 2118/5000
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Epoch 2119/5000
1/1 [=====] - 0s 2ms/step - loss: 8632648.0000

Epoch 2120/5000
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Epoch 2121/5000
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Epoch 2122/5000
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Epoch 2123/5000
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Epoch 2124/5000
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Epoch 2125/5000
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Epoch 2126/5000
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Epoch 2127/5000
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Epoch 2144/5000
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Epoch 2162/5000
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Epoch 2163/5000
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Epoch 2167/5000
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Epoch 2168/5000
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Epoch 2192/5000
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Epoch 2201/5000
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Epoch 2202/5000
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Epoch 2203/5000
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Epoch 2209/5000
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Epoch 2210/5000
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Epoch 2212/5000
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Epoch 2213/5000
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Epoch 2214/5000
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Epoch 2215/5000
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Epoch 2216/5000
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Epoch 2217/5000
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Epoch 2218/5000
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Epoch 2219/5000
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Epoch 2220/5000
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Epoch 2221/5000
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Epoch 2222/5000
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Epoch 2223/5000
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Epoch 2224/5000
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Epoch 2225/5000
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Epoch 2226/5000
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Epoch 2227/5000
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Epoch 2228/5000
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Epoch 2229/5000
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Epoch 2230/5000
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Epoch 2231/5000
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Epoch 2232/5000
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Epoch 2233/5000
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Epoch 2236/5000
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Epoch 2238/5000
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Epoch 2239/5000
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Epoch 2240/5000
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Epoch 2241/5000
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Epoch 2242/5000
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Epoch 2243/5000
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Epoch 2244/5000
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Epoch 2246/5000
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Epoch 2247/5000
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Epoch 2250/5000
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Epoch 2251/5000
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Epoch 2252/5000
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Epoch 2253/5000
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Epoch 2254/5000
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Epoch 2255/5000
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Epoch 2256/5000
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Epoch 2257/5000
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Epoch 2258/5000
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Epoch 2259/5000
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Epoch 2260/5000
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Epoch 2261/5000
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Epoch 2262/5000
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Epoch 2263/5000
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Epoch 2264/5000
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Epoch 2265/5000
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Epoch 2266/5000
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Epoch 2271/5000
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Epoch 2272/5000
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Epoch 2278/5000
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Epoch 2279/5000
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Epoch 2280/5000
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Epoch 2281/5000
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Epoch 2282/5000
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Epoch 2283/5000
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Epoch 2284/5000
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Epoch 2285/5000
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Epoch 2286/5000
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Epoch 2287/5000
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Epoch 2288/5000
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Epoch 2291/5000
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Epoch 2292/5000
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Epoch 2293/5000
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Epoch 2295/5000
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Epoch 2297/5000
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Epoch 2298/5000
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Epoch 2299/5000
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Epoch 2300/5000
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Epoch 2301/5000
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Epoch 2302/5000
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Epoch 2303/5000
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Epoch 2304/5000
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Epoch 2305/5000
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Epoch 2306/5000
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Epoch 2307/5000
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Epoch 2308/5000
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Epoch 2309/5000
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Epoch 2310/5000
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Epoch 2311/5000
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Epoch 2312/5000
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Epoch 2313/5000
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Epoch 2314/5000
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Epoch 2315/5000
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Epoch 2316/5000
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Epoch 2317/5000
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Epoch 2319/5000
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Epoch 2320/5000
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Epoch 2321/5000
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Epoch 2322/5000
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Epoch 2323/5000
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Epoch 2324/5000
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Epoch 2325/5000
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Epoch 2326/5000
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Epoch 2327/5000
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Epoch 2328/5000
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Epoch 2329/5000
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Epoch 2330/5000
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Epoch 2331/5000
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Epoch 2332/5000
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Epoch 2333/5000
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Epoch 2334/5000
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Epoch 2336/5000
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Epoch 2337/5000
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Epoch 2338/5000
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Epoch 2339/5000
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Epoch 2340/5000
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Epoch 2341/5000
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Epoch 2342/5000
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Epoch 2343/5000
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Epoch 2344/5000
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Epoch 2345/5000
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Epoch 2346/5000
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Epoch 2347/5000
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Epoch 2348/5000
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Epoch 2349/5000
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Epoch 2350/5000
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Epoch 2351/5000
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Epoch 2352/5000
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Epoch 2353/5000
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Epoch 2354/5000
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Epoch 2355/5000
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Epoch 2356/5000
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Epoch 2357/5000
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Epoch 2358/5000
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Epoch 2359/5000
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Epoch 2360/5000
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Epoch 2361/5000
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Epoch 2362/5000
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Epoch 2363/5000
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Epoch 2364/5000
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Epoch 2365/5000
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Epoch 2366/5000
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Epoch 2367/5000
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Epoch 2368/5000
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Epoch 2369/5000
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Epoch 2370/5000
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Epoch 2371/5000
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Epoch 2372/5000
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Epoch 2373/5000
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Epoch 2374/5000
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Epoch 2638/5000
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Epoch 2639/5000
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Epoch 2640/5000
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Epoch 2644/5000
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Epoch 2659/5000
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Epoch 2660/5000
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Epoch 2663/5000
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Epoch 2664/5000
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Epoch 2665/5000
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Epoch 2669/5000
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Epoch 2670/5000
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Epoch 2672/5000
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Epoch 2673/5000
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Epoch 2674/5000
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Epoch 2675/5000
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Epoch 2678/5000
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Epoch 2679/5000
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Epoch 2680/5000
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Epoch 2687/5000
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Epoch 2688/5000
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Epoch 2689/5000
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Epoch 2690/5000
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Epoch 2720/5000
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Epoch 2721/5000
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Epoch 2741/5000
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Epoch 2742/5000
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Epoch 2743/5000
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Epoch 2744/5000
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Epoch 2745/5000
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Epoch 2746/5000
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Epoch 4015/5000
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Epoch 4016/5000
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Epoch 4064/5000
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Epoch 4112/5000
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Epoch 4760/5000
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Epoch 4832/5000
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Epoch 4904/5000
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Epoch 4952/5000
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Epoch 4976/5000
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Epoch 5000/5000
1/1 [=====] - 0s 3ms/step - loss: 8632657.0000
1/1 [=====] - 0s 44ms/step
[[ 206571.39]
 [2565713.2 ]]
```

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