

Чтобы оптимизировать производственные расходы, металлургический комбинат ООО «Так закаляем сталь» решил уменьшить потребление электроэнергии на этапе обработки стали. Нам предстоит построить модель, которая предскажет температуру стали.

Описание этапа обработки

Сталь обрабатывают в металлическом ковше вместимостью около 100 тонн. Чтобы ковш выдерживал высокие температуры, изнутри его облицовывают огнеупорным кирпичом. Расплавленную сталь заливают в ковш и подогревают до нужной температуры графитовыми электродами. Они установлены в крышке ковша.

Из сплава выводится сера (десульфурация), добавлением примесей корректируется химический состав и отбираются пробы. Сталь легируют — изменяют её состав — подавая куски сплава из бункера для сыпучих материалов или проволоку через специальный трайб-аппарат (англ. *tribe*, «масса»).

Перед тем как первый раз ввести легирующие добавки, измеряют температуру стали и производят её химический анализ. Потом температуру на несколько минут повышают, добавляют легирующие материалы и продувают сплав инертным газом. Затем его перемешивают и снова проводят измерения. Такой цикл повторяется до достижения целевого химического состава и оптимальной температуры плавки.

Тогда расплавленная сталь отправляется на доводку металла или поступает в машину непрерывной разливки. Оттуда готовый продукт выходит в виде заготовок-слябов (англ. *slab*, «плита»).

Описание данных

Данные состоят из файлов, полученных из разных источников:

- `data_arc.csv` — данные об электродах;
- `data_bulk.csv` — данные о подаче сыпучих материалов (объём);
- `data_bulk_time.csv` — данные о подаче сыпучих материалов (время);
- `data_gas.csv` — данные о продувке сплава газом;
- `data_temp.csv` — результаты измерения температуры;
- `data_wire.csv` — данные о проволочных материалах (объём);
- `data_wire_time.csv` — данные о проволочных материалах (время).

In [137]:

```
import pandas as pd
import matplotlib
import matplotlib.pyplot as plt
import numpy as np

pd.set_option('display.max_rows', 500)
pd.set_option('display.max_columns', 500)
pd.set_option('display.width', 1000)

import warnings
warnings.filterwarnings('ignore')

from sklearn.linear_model import LinearRegression
from sklearn.ensemble import RandomForestRegressor
from catboost import CatBoostRegressor
from lightgbm.sklearn import LGBMRegressor

from sklearn.model_selection import (cross_val_score, train_test_split,
                                     GridSearchCV, RandomizedSearchCV)

from sklearn.metrics import mean_absolute_error
import seaborn as sns
from sklearn.preprocessing import StandardScaler

from pylab import *
```

1. Загрузка и предобработка данных

In [138]:

```
#создадим функцию, раскрывающую датасеты, помогающую изучить данные

def load_df(path):
    df=[]
    df = pd.read_csv(path)
    print(df.info())
    print()
    print(df.head(15))
    print()
    print(df.describe())
    return df
```

Данные об электродах

In [139]:

```
data_arc = load_df('/datasets/final_steel/data_arc.csv')
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 14876 entries, 0 to 14875
Data columns (total 5 columns):
key                14876 non-null int64
Начало нагрева дугой  14876 non-null object
Конец нагрева дугой  14876 non-null object
Активная мощность    14876 non-null float64
Реактивная мощность  14876 non-null float64
dtypes: float64(2), int64(1), object(2)
memory usage: 581.2+ KB
None
```

	key	Начало нагрева дугой	Конец нагрева дугой	Активная мощность	Реак
0	1	2019-05-03 11:02:14	2019-05-03 11:06:02	0.976059	
0.687084					
1	1	2019-05-03 11:07:28	2019-05-03 11:10:33	0.805607	
0.520285					
2	1	2019-05-03 11:11:44	2019-05-03 11:14:36	0.744363	
0.498805					
3	1	2019-05-03 11:18:14	2019-05-03 11:24:19	1.659363	
1.062669					
4	1	2019-05-03 11:26:09	2019-05-03 11:28:37	0.692755	
0.414397					
5	2	2019-05-03 11:34:14	2019-05-03 11:36:31	0.438063	
0.283043					
6	2	2019-05-03 11:38:50	2019-05-03 11:44:28	1.296415	
0.892914					
7	2	2019-05-03 11:46:19	2019-05-03 11:48:25	0.490377	
0.305281					
8	2	2019-05-03 11:49:48	2019-05-03 11:53:18	0.827743	
0.516874					
9	3	2019-05-03 12:06:54	2019-05-03 12:11:34	1.062053	
0.671494					
10	3	2019-05-03 12:13:52	2019-05-03 12:15:56	0.484206	
0.312100					
11	3	2019-05-03 12:18:56	2019-05-03 12:20:45	0.429355	
0.271774					
12	3	2019-05-03 12:25:43	2019-05-03 12:27:00	0.299989	
0.187806					
13	3	2019-05-03 12:31:14	2019-05-03 12:32:19	0.250280	
0.155901					
14	4	2019-05-03 12:39:37	2019-05-03 12:43:04	0.875313	
0.614404					
15	4	2019-05-03 12:44:47	2019-05-03 12:46:26	0.425692	
0.268482					
16	4	2019-05-03 12:48:14	2019-05-03 12:50:51	0.687289	
0.422692					
17	4	2019-05-03 12:53:12	2019-05-03 12:57:50	1.220955	
0.754719					
18	5	2019-05-03 13:11:13	2019-05-03 13:15:24	0.950026	
0.690523					
19	5	2019-05-03 13:18:21	2019-05-03 13:20:33	0.508026	
0.332352					
20	5	2019-05-03 13:23:32	2019-05-03 13:30:27	1.621665	
1.047776					
21	5	2019-05-03 13:32:44	2019-05-03 13:33:55	0.267457	
0.181992					
22	6	2019-05-03 13:46:51	2019-05-03 13:48:34	0.334140	
0.230438					
23	6	2019-05-03 13:50:39	2019-05-03 13:57:17	1.653073	

```

1.236721
24    6  2019-05-03 14:00:00  2019-05-03 14:02:56      0.770170
0.478253
25    6  2019-05-03 14:04:49  2019-05-03 14:09:24      1.197724
0.743763
26    7  2019-05-03 14:16:46  2019-05-03 14:18:44      0.387086
0.236391
27    7  2019-05-03 14:21:06  2019-05-03 14:27:03      1.406704
0.859944
28    7  2019-05-03 14:28:53  2019-05-03 14:30:32      0.374826
0.229962
29    7  2019-05-03 14:39:36  2019-05-03 14:41:15      0.378760
0.234998

```

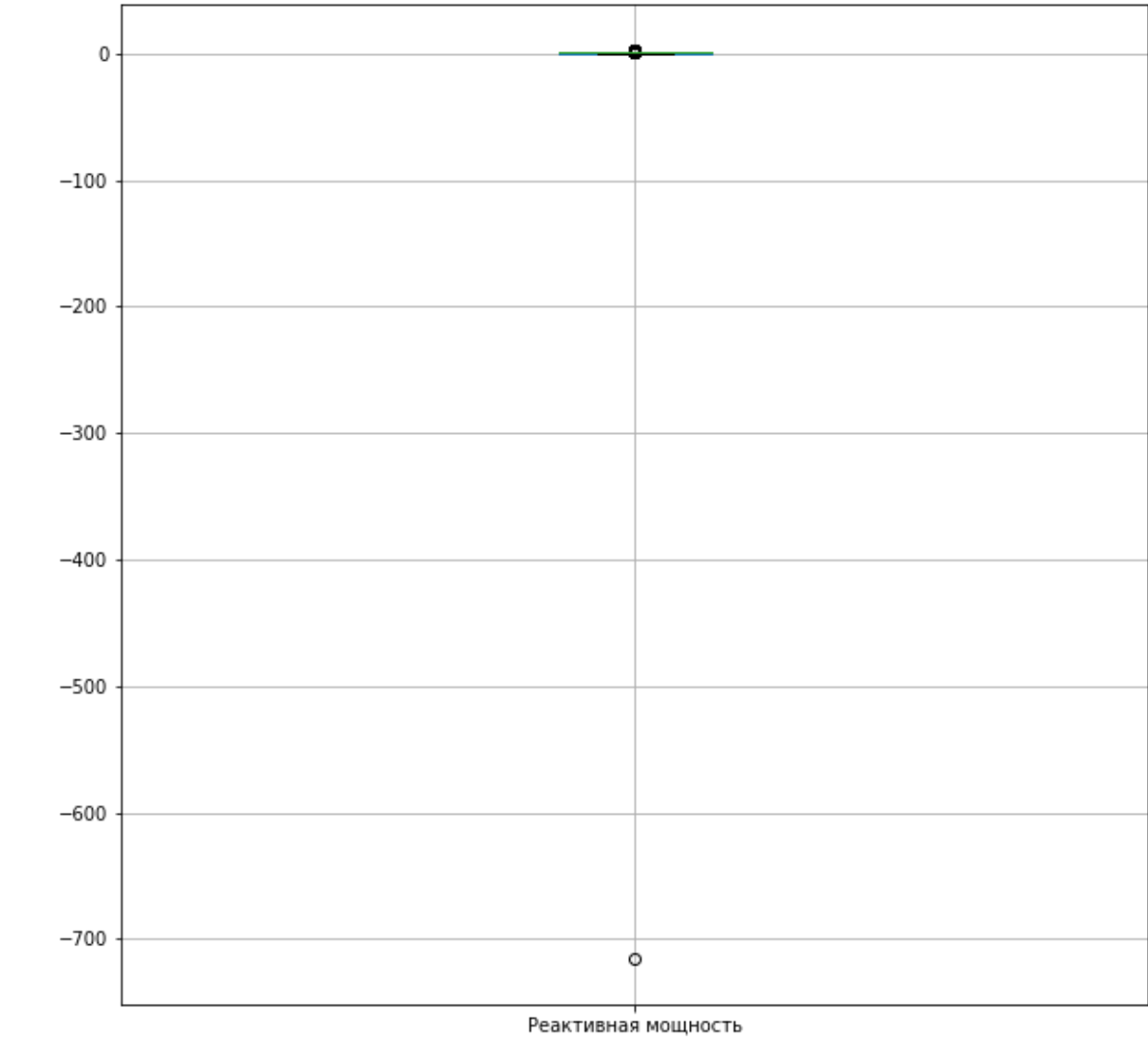
	key	Активная мощность	Реактивная мощность
count	14876.000000	14876.000000	14876.000000
mean	1615.220422	0.670441	0.452592
std	934.571502	0.408159	5.878702
min	1.000000	0.030002	-715.504924
25%	806.000000	0.395297	0.290991
50%	1617.000000	0.555517	0.415962
75%	2429.000000	0.857034	0.637371
max	3241.000000	3.731596	2.676388

In [140]:

```
data_arc.boxplot('Реактивная мощность', figsize=(10,10))
```

Out[140]:

<matplotlib.axes._subplots.AxesSubplot at 0x7fcfb4a33d10>



In [141]:

```
arc_new = data_arc.loc[data_arc['Реактивная мощность']<0]
```

In [142]:

```
arc_new.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 1 entries, 9780 to 9780
Data columns (total 5 columns):
key                1 non-null int64
Начало нагрева дугой  1 non-null object
Конец нагрева дугой  1 non-null object
Активная мощность    1 non-null float64
Реактивная мощность  1 non-null float64
dtypes: float64(2), int64(1), object(2)
memory usage: 48.0+ bytes
```

только одно значение ниже 0

<http://electrokaprizam.net/content/35-chto-takoe-kva-kwt-kvar> (<http://electrokaprizam.net/content/35-chto-takoe-kva-kwt-kvar>)

In [143]:

```
#изменим названия столбцов
data_arc.columns = ['key', 'time_begin', 'time_end', 'activ_power', 'reactiv_power']
```

In [144]:

```
#изменим mun
data_arc[['time_begin', 'time_end']] = data_arc[['time_begin', 'time_end']].apply(pd.to_datetime)
```

In [145]:

```
data_arc.head(15)
```

Out[145]:

	key	time_begin	time_end	activ_power	reactiv_power
0	1	2019-05-03 11:02:14	2019-05-03 11:06:02	0.976059	0.687084
1	1	2019-05-03 11:07:28	2019-05-03 11:10:33	0.805607	0.520285
2	1	2019-05-03 11:11:44	2019-05-03 11:14:36	0.744363	0.498805
3	1	2019-05-03 11:18:14	2019-05-03 11:24:19	1.659363	1.062669
4	1	2019-05-03 11:26:09	2019-05-03 11:28:37	0.692755	0.414397
5	2	2019-05-03 11:34:14	2019-05-03 11:36:31	0.438063	0.283043
6	2	2019-05-03 11:38:50	2019-05-03 11:44:28	1.296415	0.892914
7	2	2019-05-03 11:46:19	2019-05-03 11:48:25	0.490377	0.305281
8	2	2019-05-03 11:49:48	2019-05-03 11:53:18	0.827743	0.516874
9	3	2019-05-03 12:06:54	2019-05-03 12:11:34	1.062053	0.671494
10	3	2019-05-03 12:13:52	2019-05-03 12:15:56	0.484206	0.312100
11	3	2019-05-03 12:18:56	2019-05-03 12:20:45	0.429355	0.271774
12	3	2019-05-03 12:25:43	2019-05-03 12:27:00	0.299989	0.187806
13	3	2019-05-03 12:31:14	2019-05-03 12:32:19	0.250280	0.155901
14	4	2019-05-03 12:39:37	2019-05-03 12:43:04	0.875313	0.614404

In [146]:

```
# удалим выбросы
data_arc = data_arc.query('reactiv_power>0')
```

In [147]:

```
#создадим функцию, группирующую по партии и ранжующую по дате. выберем последнюю дату и
соответствующие мощности
def rank(df, i):
    df_g = df.groupby('key')
    def add(df_g):
        df_g['rank'] = df_g['time_end'].rank(pct=True)
        return df_g
    res = df_g.apply(add)
    result = res.query('rank == @i')
    return result
```

In [148]:

```
result_data_arc_1 = rank(data_arc, 1)
```

In [149]:

result_data_arc_1

Out[149]:

	key	time_begin	time_end	activ_power	reactiv_power	rank
4	1	2019-05-03 11:26:09	2019-05-03 11:28:37	0.692755	0.414397	1.0
8	2	2019-05-03 11:49:48	2019-05-03 11:53:18	0.827743	0.516874	1.0
13	3	2019-05-03 12:31:14	2019-05-03 12:32:19	0.250280	0.155901	1.0
17	4	2019-05-03 12:53:12	2019-05-03 12:57:50	1.220955	0.754719	1.0
21	5	2019-05-03 13:32:44	2019-05-03 13:33:55	0.267457	0.181992	1.0
...
14854	3237	2019-08-31 23:01:32	2019-08-31 23:03:48	0.606049	0.419084	1.0
14857	3238	2019-08-31 23:38:38	2019-08-31 23:41:28	0.717559	0.520623	1.0
14865	3239	2019-09-01 02:13:38	2019-09-01 02:15:43	0.488352	0.317727	1.0
14870	3240	2019-09-01 03:31:47	2019-09-01 03:34:08	0.548882	0.416994	1.0
14875	3241	2019-09-01 04:34:47	2019-09-01 04:36:08	0.306580	0.196708	1.0

3214 rows × 6 columns

In [150]:

```
# можем сделать дополнительные признаки по промежуточным стадиям каждой партии, но не будем
result_data_arc_2 = rank(data_arc, 0.2)
```

In [151]:

result_data_arc_2

Out[151]:

	key	time_begin	time_end	activ_power	reactiv_power	rank
0	1	2019-05-03 11:02:14	2019-05-03 11:06:02	0.976059	0.687084	0.2
9	3	2019-05-03 12:06:54	2019-05-03 12:11:34	1.062053	0.671494	0.2
34	9	2019-05-03 15:33:42	2019-05-03 15:36:18	0.509361	0.410399	0.2
45	11	2019-05-03 16:49:14	2019-05-03 16:52:03	0.590658	0.431572	0.2
66	15	2019-05-03 20:53:55	2019-05-03 20:57:01	0.591491	0.464639	0.2
...
14762	3216	2019-08-31 06:28:11	2019-08-31 06:30:11	0.389077	0.371934	0.2
14793	3223	2019-08-31 12:53:21	2019-08-31 12:55:54	0.562438	0.379323	0.2
14850	3237	2019-08-31 22:41:18	2019-08-31 22:43:17	0.405685	0.320431	0.2
14866	3240	2019-09-01 02:35:24	2019-09-01 02:37:25	0.411601	0.274390	0.2
14871	3241	2019-09-01 03:58:58	2019-09-01 04:01:35	0.533670	0.354439	0.2

770 rows × 6 columns

In [152]:

#добавим признак полная мощность

```
result_data_arc_1['apparent_power'] = (result_data_arc_1['activ_power']**2+result_data_arc_1['reactiv_power']**2)**0.5
```

In [153]:

result_data_arc_1

Out[153]:

	key	time_begin	time_end	activ_power	reactiv_power	rank	apparent_power
4	1	2019-05-03 11:26:09	2019-05-03 11:28:37	0.692755	0.414397	1.0	0.807239
8	2	2019-05-03 11:49:48	2019-05-03 11:53:18	0.827743	0.516874	1.0	0.975867
13	3	2019-05-03 12:31:14	2019-05-03 12:32:19	0.250280	0.155901	1.0	0.294865
17	4	2019-05-03 12:53:12	2019-05-03 12:57:50	1.220955	0.754719	1.0	1.435385
21	5	2019-05-03 13:32:44	2019-05-03 13:33:55	0.267457	0.181992	1.0	0.323503
...
14854	3237	2019-08-31 23:01:32	2019-08-31 23:03:48	0.606049	0.419084	1.0	0.736835
14857	3238	2019-08-31 23:38:38	2019-08-31 23:41:28	0.717559	0.520623	1.0	0.886532
14865	3239	2019-09-01 02:13:38	2019-09-01 02:15:43	0.488352	0.317727	1.0	0.582613
14870	3240	2019-09-01 03:31:47	2019-09-01 03:34:08	0.548882	0.416994	1.0	0.689315
14875	3241	2019-09-01 04:34:47	2019-09-01 04:36:08	0.306580	0.196708	1.0	0.364260

3214 rows × 7 columns

In [154]:

```
#сразу удалим ненужные столбцы с временем и рангом
result_data_arc_1 = result_data_arc_1.drop(['time_begin', 'time_end', 'rank'], axis=1)
```

In [155]:

```
result_data_arc_1
```

Out[155]:

	key	activ_power	reactiv_power	apparent_power
4	1	0.692755	0.414397	0.807239
8	2	0.827743	0.516874	0.975867
13	3	0.250280	0.155901	0.294865
17	4	1.220955	0.754719	1.435385
21	5	0.267457	0.181992	0.323503
...
14854	3237	0.606049	0.419084	0.736835
14857	3238	0.717559	0.520623	0.886532
14865	3239	0.488352	0.317727	0.582613
14870	3240	0.548882	0.416994	0.689315
14875	3241	0.306580	0.196708	0.364260

3214 rows × 4 columns

Данные о подаче сыпучих материалов (объём)

In [156]:

```
data_bulk= load_df('/datasets/final_steel/data_bulk.csv')
```

```
<class 'pandas.core.frame.DataFrame'>
```

```
RangeIndex: 3129 entries, 0 to 3128
```

```
Data columns (total 16 columns):
```

```
key          3129 non-null int64
Bulk 1       252 non-null float64
Bulk 2       22 non-null float64
Bulk 3       1298 non-null float64
Bulk 4       1014 non-null float64
Bulk 5       77 non-null float64
Bulk 6       576 non-null float64
Bulk 7       25 non-null float64
Bulk 8       1 non-null float64
Bulk 9       19 non-null float64
Bulk 10      176 non-null float64
Bulk 11      177 non-null float64
Bulk 12      2450 non-null float64
Bulk 13      18 non-null float64
Bulk 14      2806 non-null float64
Bulk 15      2248 non-null float64
```

```
dtypes: float64(15), int64(1)
```

```
memory usage: 391.2 KB
```

```
None
```

	key	Bulk 1	Bulk 2	Bulk 3	Bulk 4	Bulk 5	Bulk 6	Bulk 7	Bulk 8	B
ulk 9	Bulk 10	Bulk 11	Bulk 12	Bulk 13	Bulk 14	Bulk 15				
0	1	NaN	NaN	NaN	43.0	NaN	NaN	NaN	NaN	
NaN	NaN	NaN	NaN	206.0	NaN	150.0	154.0			
1	2	NaN	NaN	NaN	73.0	NaN	NaN	NaN	NaN	
NaN	NaN	NaN	NaN	206.0	NaN	149.0	154.0			
2	3	NaN	NaN	NaN	34.0	NaN	NaN	NaN	NaN	
NaN	NaN	NaN	NaN	205.0	NaN	152.0	153.0			
3	4	NaN	NaN	NaN	81.0	NaN	NaN	NaN	NaN	
NaN	NaN	NaN	NaN	207.0	NaN	153.0	154.0			
4	5	NaN	NaN	NaN	78.0	NaN	NaN	NaN	NaN	
NaN	NaN	NaN	NaN	203.0	NaN	151.0	152.0			
5	6	NaN	NaN	NaN	117.0	NaN	NaN	NaN	NaN	
NaN	NaN	NaN	NaN	204.0	NaN	201.0	154.0			
6	7	NaN	NaN	NaN	117.0	NaN	NaN	NaN	NaN	
NaN	NaN	NaN	NaN	204.0	NaN	152.0	154.0			
7	8	NaN	NaN	NaN	99.0	NaN	NaN	NaN	NaN	
NaN	NaN	NaN	NaN	410.0	NaN	252.0	153.0			
8	9	NaN	NaN	NaN	117.0	NaN	NaN	NaN	NaN	
NaN	NaN	NaN	NaN	107.0	NaN	99.0	203.0			
9	10	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
NaN	NaN	NaN	NaN	203.0	NaN	102.0	204.0			
10	11	NaN	NaN	NaN	69.0	NaN	NaN	NaN	NaN	
NaN	NaN	NaN	NaN	207.0	NaN	101.0	202.0			
11	12	46.0	NaN	NaN	34.0	NaN	NaN	NaN	NaN	
NaN	NaN	NaN	NaN	618.0	NaN	406.0	203.0			
12	13	NaN	NaN	NaN	NaN	NaN	72.0	NaN	NaN	
NaN	NaN	NaN	NaN	410.0	NaN	151.0	204.0			
13	14	NaN	NaN	71.0	NaN	NaN	NaN	NaN	NaN	
NaN	NaN	NaN	NaN	204.0	NaN	152.0	203.0			
14	15	NaN	NaN	NaN	NaN	NaN	77.0	NaN	NaN	
NaN	NaN	NaN	NaN	NaN	NaN	251.0	203.0			
15	16	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
NaN	NaN	NaN	NaN	206.0	NaN	100.0	203.0			
16	17	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
NaN	NaN	NaN	NaN	NaN	NaN	153.0	202.0			
17	18	NaN	NaN	NaN	NaN	NaN	76.0	NaN	NaN	
NaN	NaN	NaN	NaN	206.0	NaN	103.0	203.0			

18	19	NaN	NaN	NaN	NaN	NaN	219.0	NaN	NaN
NaN		NaN	NaN	NaN	NaN	NaN	NaN		
19	20	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
NaN		NaN	NaN	NaN	NaN	249.0	NaN		
20	21	NaN	NaN	151.0	NaN	NaN	NaN	NaN	NaN
NaN		NaN	NaN	233.0	NaN	401.0	202.0		
21	22	NaN	NaN	63.0	NaN	NaN	NaN	NaN	NaN
NaN		NaN	NaN	NaN	NaN	202.0	NaN		
22	23	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
NaN		NaN	NaN	104.0	NaN	302.0	101.0		
23	24	NaN	NaN	89.0	NaN	NaN	108.0	NaN	NaN
NaN		NaN	NaN	412.0	NaN	204.0	203.0		
24	25	NaN	NaN	132.0	NaN	NaN	NaN	NaN	NaN
NaN		NaN	NaN	205.0	NaN	102.0	204.0		
25	26	NaN	NaN	67.0	NaN	NaN	NaN	NaN	NaN
NaN		NaN	NaN	NaN	NaN	NaN	NaN		
26	27	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
NaN		NaN	NaN	205.0	NaN	202.0	153.0		
27	28	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
NaN		NaN	NaN	105.0	NaN	150.0	NaN		
28	29	NaN	NaN	19.0	NaN	NaN	NaN	NaN	NaN
NaN		NaN	NaN	205.0	NaN	150.0	153.0		
29	30	NaN	NaN	21.0	NaN	NaN	NaN	NaN	NaN
NaN		NaN	NaN	105.0	NaN	260.0	104.0		

	key	Bulk 1	Bulk 2	Bulk 3	Bulk 4	
Bulk 5	Bulk 6	Bulk 7	Bulk 8	Bulk 9	Bulk 10	Bulk 11
Bulk 12	Bulk 13	Bulk 14	Bulk 15			
count	3129.000000	252.000000	22.000000	1298.000000	1014.000000	77.000000
	576.000000	25.000000	1.0	19.000000	176.000000	177.000000
	2450.000000	18.000000	2806.000000	2248.000000		
mean	1624.383509	39.242063	253.045455	113.879045	104.394477	107.025974
	118.925347	305.600000	49.0	76.315789	83.284091	76.819209
	260.471020	181.111111	170.284747	160.513345		
std	933.337642	18.277654	21.180578	75.483494	48.184126	81.790646
	72.057776	191.022904	NaN	21.720581	26.060347	59.655365
	120.649269	46.088009	65.868652	51.765319		
min	1.000000	10.000000	228.000000	6.000000	12.000000	11.000000
	17.000000	47.000000	49.0	63.000000	24.000000	8.000000
	53.000000	151.000000	16.000000	1.000000		
25%	816.000000	27.000000	242.000000	58.000000	72.000000	70.000000
	69.750000	155.000000	49.0	66.000000	64.000000	25.000000
	204.000000	153.250000	119.000000	105.000000		
50%	1622.000000	31.000000	251.500000	97.500000	102.000000	86.000000
	100.000000	298.000000	49.0	68.000000	86.500000	64.000000
	208.000000	155.500000	151.000000	160.000000		
75%	2431.000000	46.000000	257.750000	152.000000	133.000000	132.000000
	157.000000	406.000000	49.0	70.500000	102.000000	106.000000
	316.000000	203.500000	205.750000	205.000000		
max	3241.000000	185.000000	325.000000	454.000000	281.000000	603.000000
	503.000000	772.000000	49.0	147.000000	159.000000	313.000000
	1849.000000	305.000000	636.000000	405.000000		

In [157]:

```
#заменяю NaN на 0
data_bulk=data_bulk.fillna(0)
```

In [158]:

data_bulk.head(30)

Out[158]:

	key	Bulk 1	Bulk 2	Bulk 3	Bulk 4	Bulk 5	Bulk 6	Bulk 7	Bulk 8	Bulk 9	Bulk 10	Bulk 11	Bulk 12	Bulk 13
0	1	0.0	0.0	0.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	206.0	0.0
1	2	0.0	0.0	0.0	73.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	206.0	0.0
2	3	0.0	0.0	0.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	205.0	0.0
3	4	0.0	0.0	0.0	81.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	207.0	0.0
4	5	0.0	0.0	0.0	78.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	203.0	0.0
5	6	0.0	0.0	0.0	117.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	204.0	0.0
6	7	0.0	0.0	0.0	117.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	204.0	0.0
7	8	0.0	0.0	0.0	99.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	410.0	0.0
8	9	0.0	0.0	0.0	117.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	107.0	0.0
9	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	203.0	0.0
10	11	0.0	0.0	0.0	69.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	207.0	0.0
11	12	46.0	0.0	0.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	618.0	0.0
12	13	0.0	0.0	0.0	0.0	0.0	72.0	0.0	0.0	0.0	0.0	0.0	410.0	0.0
13	14	0.0	0.0	71.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	204.0	0.0
14	15	0.0	0.0	0.0	0.0	0.0	77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	206.0	0.0
16	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	18	0.0	0.0	0.0	0.0	0.0	76.0	0.0	0.0	0.0	0.0	0.0	206.0	0.0
18	19	0.0	0.0	0.0	0.0	0.0	219.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	21	0.0	0.0	151.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	233.0	0.0
21	22	0.0	0.0	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	104.0	0.0
23	24	0.0	0.0	89.0	0.0	0.0	108.0	0.0	0.0	0.0	0.0	0.0	412.0	0.0
24	25	0.0	0.0	132.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	205.0	0.0
25	26	0.0	0.0	67.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	205.0	0.0
27	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	105.0	0.0
28	29	0.0	0.0	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	205.0	0.0
29	30	0.0	0.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	105.0	0.0



In [159]:

#изменим названия столбцов

```
data_bulk.columns = ['key', 'bulk_1', 'bulk_2', 'bulk_3', 'bulk_4', 'bulk_5', 'bulk_6', \
                     'bulk_7', 'bulk_8', 'bulk_9', 'bulk_10', 'bulk_11', 'bulk_12', 'bulk_13', \
                     'bulk_14', 'bulk_15']
```

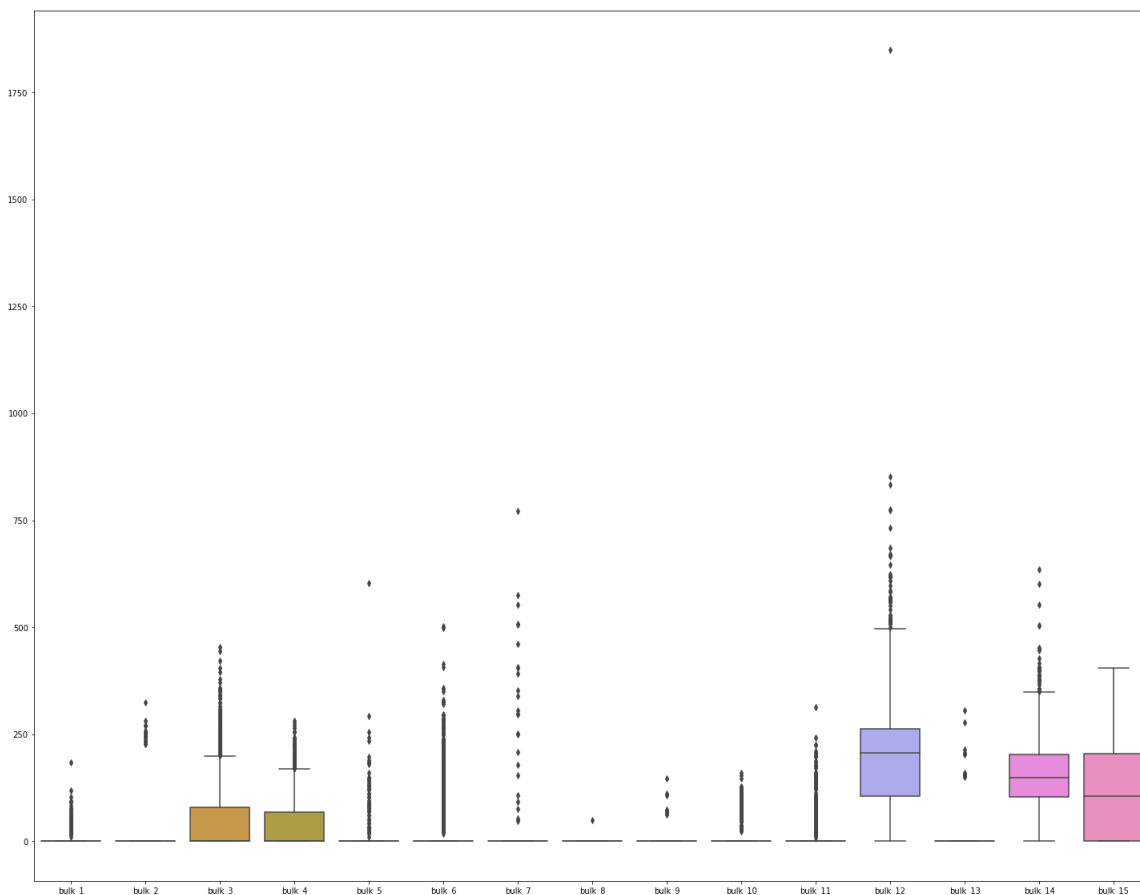
In [160]:

```
print("Диаграмма размаха сыпучих материалов")
plt.figure(figsize=(25,20))
sns.boxplot(data=data_bulk[['bulk_1', 'bulk_2', 'bulk_3', 'bulk_4', 'bulk_5', 'bulk_6', \
                             'bulk_7', 'bulk_8', 'bulk_9', 'bulk_10', 'bulk_11', 'bulk_12', 'bulk_13', \
                             'bulk_14', 'bulk_15']])
```

Диаграмма размаха сыпучих материалов

Out[160]:

<matplotlib.axes._subplots.AxesSubplot at 0x7fcfb718c310>



In [161]:

#уберем выбросы

```
data_bulk = data_bulk.query('bulk_3<250 & bulk_4<200 & bulk_12<500 & bulk_14<300')
```

In [162]:

```
data_bulk['bulk_sum'] = data_bulk['bulk_1']+data_bulk['bulk_2']+data_bulk['bulk_3']+dat  
a_bulk['bulk_4']+data_bulk['bulk_5']+\  
                        data_bulk['bulk_6']+data_bulk['bulk_7']+data_bulk['bulk_8']+dat  
a_bulk['bulk_9']+data_bulk['bulk_10']+\  
data_bulk['bulk_11']+data_bulk['bulk_12']+data_bulk['bulk_13']+data_bulk['bulk_14']+dat  
a_bulk['bulk_15']
```

Данные о подаче сыпучих материалов (время)

In [163]:

```
data_bulk_time =load_df('/datasets/final_steel/data_bulk_time.csv')
```

```
<class 'pandas.core.frame.DataFrame'>
```

```
RangeIndex: 3129 entries, 0 to 3128
```

```
Data columns (total 16 columns):
```

```
key          3129 non-null int64
```

```
Bulk 1       252 non-null object
```

```
Bulk 2       22 non-null object
```

```
Bulk 3      1298 non-null object
```

```
Bulk 4      1014 non-null object
```

```
Bulk 5       77 non-null object
```

```
Bulk 6      576 non-null object
```

```
Bulk 7       25 non-null object
```

```
Bulk 8        1 non-null object
```

```
Bulk 9       19 non-null object
```

```
Bulk 10     176 non-null object
```

```
Bulk 11     177 non-null object
```

```
Bulk 12    2450 non-null object
```

```
Bulk 13      18 non-null object
```

```
Bulk 14    2806 non-null object
```

```
Bulk 15    2248 non-null object
```

```
dtypes: int64(1), object(15)
```

```
memory usage: 391.2+ KB
```

```
None
```

key	Bulk 1	Bulk 2	Bulk 3	Bulk 4	Bulk 5	Bulk 6	Bulk 7	Bulk 8	Bulk 9	Bulk 10	Bulk 11	Bulk 12	Bulk 13	Bulk 14	Bulk 15
0	1	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	2019-05-03	11:2	NaN	NaN	NaN	201
1:30	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
9-05-03	11:03:52	NaN	2019-05-03	11:03:52	2019-05-03	11:03:52	2019-05-03	11:03:52	2019-05-03	11:03:52	2019-05-03	11:03:52	2019-05-03	11:03:52	201
1	2	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
6:38	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
9-05-03	11:40:20	NaN	2019-05-03	11:40:20	2019-05-03	11:40:20	2019-05-03	11:40:20	2019-05-03	11:40:20	2019-05-03	11:40:20	2019-05-03	11:40:20	201
2	3	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
1:06	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
9-05-03	12:09:40	NaN	2019-05-03	12:09:40	2019-05-03	12:09:40	2019-05-03	12:09:40	2019-05-03	12:09:40	2019-05-03	12:09:40	2019-05-03	12:09:40	201
3	4	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
8:43	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
9-05-03	12:41:24	NaN	2019-05-03	12:41:24	2019-05-03	12:41:24	2019-05-03	12:41:24	2019-05-03	12:41:24	2019-05-03	12:41:24	2019-05-03	12:41:24	201
4	5	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
8:50	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
9-05-03	13:12:56	NaN	2019-05-03	13:12:56	2019-05-03	13:12:56	2019-05-03	13:12:56	2019-05-03	13:12:56	2019-05-03	13:12:56	2019-05-03	13:12:56	201
5	6	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
9:24	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
9-05-03	13:53:27	NaN	2019-05-03	13:53:27	2019-05-03	13:53:27	2019-05-03	13:53:27	2019-05-03	13:53:27	2019-05-03	13:53:27	2019-05-03	13:53:27	201
6	7	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
9:14	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
9-05-03	14:22:19	NaN	2019-05-03	14:22:19	2019-05-03	14:22:19	2019-05-03	14:22:19	2019-05-03	14:22:19	2019-05-03	14:22:19	2019-05-03	14:22:19	201
7	8	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
4:05	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
9-05-03	14:55:46	NaN	2019-05-03	14:55:46	2019-05-03	14:55:46	2019-05-03	14:55:46	2019-05-03	14:55:46	2019-05-03	14:55:46	2019-05-03	14:55:46	201
8	9	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
7:34	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
9-05-03	15:41:00	NaN	2019-05-03	15:41:00	2019-05-03	15:41:00	2019-05-03	15:41:00	2019-05-03	15:41:00	2019-05-03	15:41:00	2019-05-03	15:41:00	201
9	10	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	2019
-05-03	16:18:52	NaN	2019-05-03	16:18:52	2019-05-03	16:18:52	2019-05-03	16:18:52	2019-05-03	16:18:52	2019-05-03	16:18:52	2019-05-03	16:18:52	201
10	11	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
6:34	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
9-05-03	17:03:52	NaN	2019-05-03	17:03:52	2019-05-03	17:03:52	2019-05-03	17:03:52	2019-05-03	17:03:52	2019-05-03	17:03:52	2019-05-03	17:03:52	201
11	12	2019-05-03	17:50:19	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201
3:59	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	201

9-05-03 17:45:21	NaN	2019-05-03 17:45:21	2019-05-03 17:45:21	
12 13	NaN	NaN	NaN	
NaN NaN 2019-05-03 18:52:57	NaN	NaN	NaN	NaN 2019
-05-03 18:43:48	NaN	2019-05-03 18:43:48	2019-05-03 18:43:48	
13 14	NaN	NaN	2019-05-03 20:13:36	
NaN NaN	NaN	NaN	NaN	NaN 2019
-05-03 20:05:47	NaN	2019-05-03 20:05:47	2019-05-03 20:05:47	
14 15	NaN	NaN	NaN	
NaN NaN 2019-05-03 21:15:20	NaN	NaN	NaN	NaN
NaN NaN 2019-05-03 21:03:07	NaN	NaN	NaN	
15 16	NaN	NaN	NaN	
NaN NaN	NaN	NaN	NaN	NaN 2019
-05-03 22:07:39	NaN	2019-05-03 22:07:39	2019-05-03 22:07:39	
16 17	NaN	NaN	NaN	
NaN NaN	NaN	NaN	NaN	NaN
NaN NaN 2019-05-03 22:46:31	NaN	NaN	NaN	
17 18	NaN	NaN	NaN	
NaN NaN 2019-05-03 23:53:11	NaN	NaN	NaN	NaN 2019
-05-03 23:29:10	NaN	2019-05-03 23:29:10	2019-05-03 23:29:10	
18 19	NaN	NaN	NaN	
NaN NaN 2019-05-04 00:53:02	NaN	NaN	NaN	NaN
NaN NaN	NaN	NaN	NaN	
19 20	NaN	NaN	NaN	
NaN NaN	NaN	NaN	NaN	NaN
NaN NaN 2019-05-04 01:44:28	NaN	NaN	NaN	
20 21	NaN	NaN	2019-05-04 03:47:10	
NaN NaN	NaN	NaN	NaN	NaN 2019
-05-04 03:28:30	NaN	2019-05-04 03:28:30	2019-05-04 03:28:30	
21 22	NaN	NaN	2019-05-04 04:29:57	
NaN NaN	NaN	NaN	NaN	NaN
NaN NaN 2019-05-04 04:24:59	NaN	NaN	NaN	
22 23	NaN	NaN	NaN	
NaN NaN	NaN	NaN	NaN	NaN 2019
-05-04 05:26:16	NaN	2019-05-04 05:12:40	2019-05-04 05:26:16	
23 24	NaN	NaN	2019-05-04 06:44:51	
NaN NaN 2019-05-04 06:44:51	NaN	NaN	NaN	NaN 2019
-05-04 06:04:41	NaN	2019-05-04 06:04:41	2019-05-04 06:04:41	
24 25	NaN	NaN	2019-05-04 06:35:56	
NaN NaN	NaN	NaN	NaN	NaN 2019
-05-04 06:29:52	NaN	2019-05-04 06:29:52	2019-05-04 06:29:52	
25 26	NaN	NaN	2019-05-04 07:28:33	
NaN NaN	NaN	NaN	NaN	NaN
NaN NaN	NaN	NaN	NaN	
26 27	NaN	NaN	NaN	
NaN NaN	NaN	NaN	NaN	NaN 2019
-05-04 07:50:10	NaN	2019-05-04 07:50:10	2019-05-04 07:50:10	
27 28	NaN	NaN	NaN	
NaN NaN	NaN	NaN	NaN	NaN 2019
-05-04 08:30:00	NaN	2019-05-04 08:30:00	NaN	
28 29	NaN	NaN	2019-05-04 09:19:45	
NaN NaN	NaN	NaN	NaN	NaN 2019
-05-04 09:10:05	NaN	2019-05-04 09:10:05	2019-05-04 09:10:05	
29 30	NaN	NaN	2019-05-04 09:59:18	
NaN NaN	NaN	NaN	NaN	NaN 2019
-05-04 09:38:29	NaN	2019-05-04 09:38:29	2019-05-04 09:38:29	

key

count 3129.000000
mean 1624.383509
std 933.337642
min 1.000000

25%	816.000000
50%	1622.000000
75%	2431.000000
max	3241.000000

In [164]:

#изменим названия столбцов

```
data_bulk_time.columns = ['key', 'bulk_1', 'bulk_2', 'bulk_3', 'bulk_4', 'bulk_5', 'bulk_6', \
                           'bulk_7', 'bulk_8', 'bulk_9', 'bulk_10', 'bulk_11', 'bulk_12', 'bulk_13', 'bulk_14', 'bulk_15']
```

In [165]:

#изменим mun

```
data_bulk_time[['bulk_1', 'bulk_2', 'bulk_3', 'bulk_4', 'bulk_5', 'bulk_6', 'bulk_7', \
                'bulk_8', 'bulk_9', 'bulk_10', 'bulk_11', 'bulk_12', 'bulk_13', 'bulk_14', \
                'bulk_15']] = data_bulk_time[['bulk_1', 'bulk_2', 'bulk_3', 'bulk_4', \
                'bulk_5', 'bulk_6', 'bulk_7', 'bulk_8', 'bulk_9', 'bulk_10', 'bulk_11', \
                'bulk_12', 'bulk_13', 'bulk_14', 'bulk_15']].apply(pd.to_datetime)
```

In [166]:

#заполним NAN пробелом

```
data_bulk_time = data_bulk_time.fillna('')
```


In [167]:

```
data_bulk_time.head(5)
```

Out[167]:

	key	bulk_1	bulk_2	bulk_3	bulk_4	bulk_5	bulk_6	bulk_7	bulk_8	bulk_9	bulk_10
0	1				2019-05-03 11:21:30						
1	2				2019-05-03 11:46:38						
2	3				2019-05-03 12:31:06						
3	4				2019-05-03 12:48:43						
4	5				2019-05-03 13:18:50						
5	6				2019-05-03 13:59:24						
6	7				2019-05-03 14:29:14						
7	8				2019-05-03 15:04:05						
8	9				2019-05-03 15:47:34						
9	10										
10	11				2019-05-03 17:16:34						
11	12	2019-05-03 17:50:19			2019-05-03 18:03:59						
12	13						2019-05-03 18:52:57				
13	14			2019-05-03 20:13:36							
14	15						2019-05-03 21:15:20				
15	16										
16	17										
17	18						2019-05-03 23:53:11				

	key	bulk_1	bulk_2	bulk_3	bulk_4	bulk_5	bulk_6	bulk_7	bulk_8	bulk_9	bulk_10
18	19						2019-05-04 00:53:02				
19	20										
20	21			2019-05-04 03:47:10							
21	22			2019-05-04 04:29:57							
22	23										
23	24			2019-05-04 06:44:51			2019-05-04 06:44:51				
24	25			2019-05-04 06:35:56							
25	26			2019-05-04 07:28:33							
26	27										
27	28										
28	29			2019-05-04 09:19:45							
29	30			2019-05-04 09:59:18							



Данные о продувке сплава газом

In [168]:

```
data_gas = load_df('/datasets/final_steel/data_gas.csv')
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3239 entries, 0 to 3238
Data columns (total 2 columns):
key          3239 non-null int64
Газ 1        3239 non-null float64
dtypes: float64(1), int64(1)
memory usage: 50.7 KB
None
```

	key	Газ 1
0	1	29.749986
1	2	12.555561
2	3	28.554793
3	4	18.841219
4	5	5.413692
5	6	11.273392
6	7	9.836267
7	8	15.171553
8	9	8.216623
9	10	6.529891
10	11	3.639128
11	12	11.026259
12	13	11.443643
13	14	5.098945
14	15	11.085451
15	16	7.991257
16	17	15.175933
17	18	14.660061
18	19	6.556234
19	20	10.698530
20	21	14.615434
21	22	13.210861
22	23	14.515347
23	24	11.487776
24	25	9.060018
25	26	9.631086
26	27	10.404299
27	28	11.997002
28	29	5.955136
29	30	13.494307

	key	Газ 1
count	3239.000000	3239.000000
mean	1621.861377	11.002062
std	935.386334	6.220327
min	1.000000	0.008399
25%	812.500000	7.043089
50%	1622.000000	9.836267
75%	2431.500000	13.769915
max	3241.000000	77.995040

In [169]:

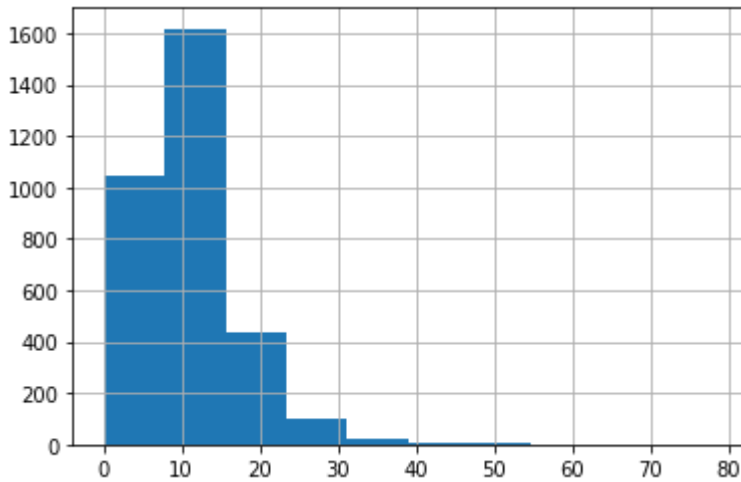
```
data_gas.columns = ['key', 'gas_1']
```

In [170]:

```
data_gas['gas_1'].hist()
```

Out[170]:

<matplotlib.axes._subplots.AxesSubplot at 0x7fcfb7cce2d0>

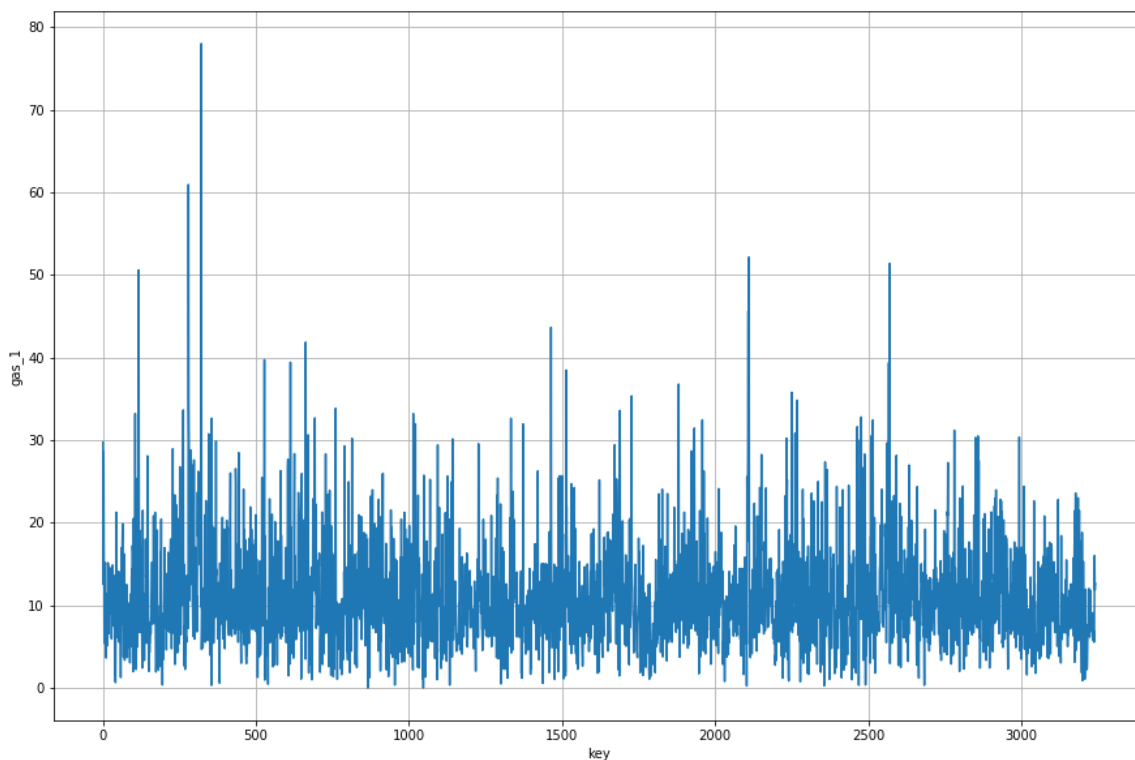


In [171]:

```
fig, ax = plt.subplots(figsize=(15, 10))
ax.plot(data_gas['key'], data_gas['gas_1'])

ax.set(xlabel='key', ylabel='gas_1')
# title='About as simple as it gets, folks')
ax.grid()

#fig.savefig("test.png")
plt.show()
```



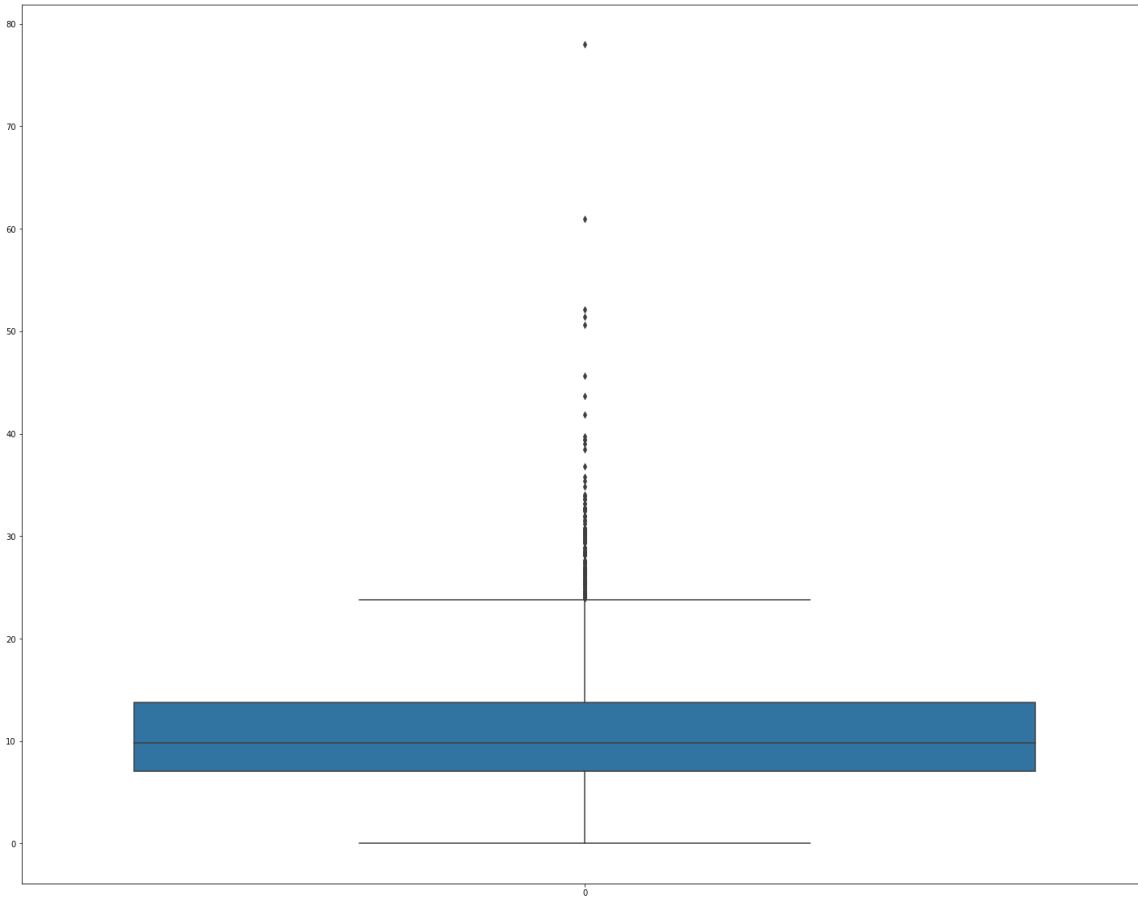
In [172]:

```
print("Диаграмма размаха по продувке сплава газом")  
plt.figure(figsize=(25,20))  
sns.boxplot(data=data_gas['gas_1'])
```

Диаграмма размаха по продувке сплава газом

Out[172]:

<matplotlib.axes._subplots.AxesSubplot at 0x7fcfb4c18ed0>



Наблюдаем выбросы в данных по продувке сплава газом

Результаты измерения температуры

In [173]:

```
data_temp = load_df('/datasets/final_steel/data_temp.csv')
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 15907 entries, 0 to 15906
Data columns (total 3 columns):
key                15907 non-null int64
Время замера      15907 non-null object
Температура        13006 non-null float64
dtypes: float64(1), int64(1), object(1)
memory usage: 372.9+ KB
None
```

	key	Время замера	Температура
0	1	2019-05-03 11:16:18	1571.0
1	1	2019-05-03 11:25:53	1604.0
2	1	2019-05-03 11:29:11	1618.0
3	1	2019-05-03 11:30:01	1601.0
4	1	2019-05-03 11:30:39	1613.0
5	2	2019-05-03 11:37:27	1581.0
6	2	2019-05-03 11:38:00	1577.0
7	2	2019-05-03 11:49:38	1589.0
8	2	2019-05-03 11:55:50	1604.0
9	2	2019-05-03 11:58:24	1608.0
10	2	2019-05-03 11:59:12	1602.0
11	3	2019-05-03 12:13:17	1596.0
12	3	2019-05-03 12:18:36	1597.0
13	3	2019-05-03 12:25:06	1598.0
14	3	2019-05-03 12:30:48	1599.0
15	3	2019-05-03 12:34:57	1599.0
16	4	2019-05-03 12:52:57	1601.0
17	4	2019-05-03 12:58:43	1623.0
18	4	2019-05-03 12:59:25	1625.0
19	5	2019-05-03 13:23:19	1576.0
20	5	2019-05-03 13:36:01	1602.0
21	6	2019-05-03 13:49:24	1543.0
22	6	2019-05-03 14:04:31	1581.0
23	6	2019-05-03 14:11:11	1600.0
24	6	2019-05-03 14:11:50	1600.0
25	6	2019-05-03 14:12:29	1596.0
26	7	2019-05-03 14:19:43	1586.0
27	7	2019-05-03 14:20:19	1582.0
28	7	2019-05-03 14:32:07	1599.0
29	7	2019-05-03 14:38:48	1595.0

	key	Температура
count	15907.000000	13006.000000
mean	1607.880870	1591.840920
std	942.212073	21.375851
min	1.000000	1191.000000
25%	790.000000	1581.000000
50%	1618.000000	1591.000000
75%	2427.000000	1601.000000
max	3241.000000	1705.000000

отсутствуют данные в столбце температура. ничего не остается, как их дропнуть.

будем использовать только последнюю температуру

In [174]:

```
data_temp = data_temp.dropna()
```

In [175]:

```
#изменим названия колонок
data_temp.columns = ['key', 'time_end', 'temp']
```

In [176]:

```
#изменим тип
data_temp['time_end'] = data_temp['time_end'].apply(pd.to_datetime)
data_temp['temp'] = data_temp['temp'].astype(int)
```

In [177]:

```
data_temp
```

Out[177]:

	key	time_end	temp
0	1	2019-05-03 11:16:18	1571
1	1	2019-05-03 11:25:53	1604
2	1	2019-05-03 11:29:11	1618
3	1	2019-05-03 11:30:01	1601
4	1	2019-05-03 11:30:39	1613
...
15878	3237	2019-08-31 22:44:04	1569
15883	3238	2019-08-31 23:30:31	1584
15886	3239	2019-09-01 01:31:47	1598
15894	3240	2019-09-01 02:39:01	1617
15902	3241	2019-09-01 04:03:30	1586

13006 rows × 3 columns

In [178]:

```
#уберем все значения кроме последнего замера температуры.
#значение последней измеренной температуры будет нашим целевым признаком

result_data_temp_1 = rank(data_temp, 1)
```


In [179]:

result_data_temp_1

Out[179]:

	key	time_end	temp	rank
4	1	2019-05-03 11:30:39	1613	1.0
10	2	2019-05-03 11:59:12	1602	1.0
15	3	2019-05-03 12:34:57	1599	1.0
18	4	2019-05-03 12:59:25	1625	1.0
20	5	2019-05-03 13:36:01	1602	1.0
...
15878	3237	2019-08-31 22:44:04	1569	1.0
15883	3238	2019-08-31 23:30:31	1584	1.0
15886	3239	2019-09-01 01:31:47	1598	1.0
15894	3240	2019-09-01 02:39:01	1617	1.0
15902	3241	2019-09-01 04:03:30	1586	1.0

3216 rows × 4 columns

In [180]:

```
#сразу удалим ненужные столбцы с временем и температурой
result_data_temp_1 = result_data_temp_1.drop(['time_end', 'rank'], axis=1)
```

In [181]:

```
#создадим функцию, группирующую по партии и ранжующую по дате. выберем только первое из
мерение температуры
def temp_first(df):
    df_g = df.groupby('key')
    def add(df_g):
        df_g['rank'] = df_g['time_end'].rank()
        return df_g
    res = df_g.apply(add)
    result = res.query('rank == 1')
    return result
```

In [182]:

```
#данные по первой температуре
temp_1 = temp_first(data_temp)
```

In [183]:

temp_1

Out[183]:

	key	time_end	temp	rank
0	1	2019-05-03 11:16:18	1571	1.0
5	2	2019-05-03 11:37:27	1581	1.0
11	3	2019-05-03 12:13:17	1596	1.0
16	4	2019-05-03 12:52:57	1601	1.0
19	5	2019-05-03 13:23:19	1576	1.0
...
15878	3237	2019-08-31 22:44:04	1569	1.0
15883	3238	2019-08-31 23:30:31	1584	1.0
15886	3239	2019-09-01 01:31:47	1598	1.0
15894	3240	2019-09-01 02:39:01	1617	1.0
15902	3241	2019-09-01 04:03:30	1586	1.0

3216 rows × 4 columns

In [187]:

```
#сразу удалим ненужные столбцы с временем и температурой
temp_1 = temp_1.drop(['time_end', 'rank'], axis=1)
```

Данные о проволочных материалах (объём)

In [188]:

```
data_wire = load_df('/datasets/final_steel/data_wire.csv')
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3081 entries, 0 to 3080
Data columns (total 10 columns):
key          3081 non-null int64
Wire 1       3055 non-null float64
Wire 2       1079 non-null float64
Wire 3        63 non-null float64
Wire 4        14 non-null float64
Wire 5         1 non-null float64
Wire 6        73 non-null float64
Wire 7        11 non-null float64
Wire 8        19 non-null float64
Wire 9        29 non-null float64
dtypes: float64(9), int64(1)
memory usage: 240.8 KB
None
```

	key	Wire 1	Wire 2	Wire 3	Wire 4	Wire 5	Wire 6	Wire
7	Wire 8	Wire 9						
0	1	60.059998	NaN	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
1	2	96.052315	NaN	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
2	3	91.160157	NaN	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
3	4	89.063515	NaN	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
4	5	89.238236	9.114560	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
5	6	99.109917	9.114560	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
6	7	98.061600	NaN	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
7	8	155.282394	NaN	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
8	9	113.393279	9.143681	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
9	10	81.244796	12.376000	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
10	11	99.197281	NaN	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
11	12	153.578873	NaN	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
12	13	77.269920	52.416003	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
13	14	120.251038	37.826881	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
14	15	71.285759	52.095680	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
15	16	100.114563	43.097599	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
16	17	110.204636	50.144638	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
17	18	88.233596	32.148487	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
18	19	113.218552	75.304322	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
19	20	105.137756	72.275840	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
20	21	119.290081	98.367363	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						

21	22	144.755523	99.910721	250.041794	NaN	NaN	NaN	Na
N	NaN	NaN						
22	23	100.158234	114.907524	276.324066	NaN	NaN	NaN	Na
N	NaN	NaN						
23	24	101.730722	50.319363	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
24	25	127.065117	64.588157	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
25	26	170.133591	NaN	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
26	27	118.241760	30.051842	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
27	28	99.153595	NaN	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
28	29	120.119995	NaN	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						
29	30	44.160480	23.033920	NaN	NaN	NaN	NaN	Na
N	NaN	NaN						

	key	Wire 1	Wire 2	Wire 3	Wire 4	Wire
5	Wire 6	Wire 7	Wire 8	Wire 9		
count	3081.000000	3055.000000	1079.000000	63.000000	14.000000	1.0
00	73.000000	11.000000	19.000000	29.000000		
mean	1623.426485	100.895853	50.577323	189.482681	57.442841	15.1
32	48.016974	10.039007	53.625193	34.155752		
std	932.996726	42.012518	39.320216	99.513444	28.824667	N
aN	33.919845	8.610584	16.881728	19.931616		
min	1.000000	1.918800	0.030160	0.144144	24.148801	15.1
32	0.034320	0.234208	45.076721	4.622800		
25%	823.000000	72.115684	20.193680	95.135044	40.807002	15.1
32	25.053600	6.762756	46.094879	22.058401		
50%	1619.000000	100.158234	40.142956	235.194977	45.234282	15.1
32	42.076324	9.017009	46.279999	30.066399		
75%	2434.000000	126.060484	70.227558	276.252014	76.124619	15.1
32	64.212723	11.886057	48.089603	43.862003		
max	3241.000000	330.314424	282.780152	385.008668	113.231044	15.1
32	180.454575	32.847674	102.762401	90.053604		

In [189]:

#изменим названия столбцов

```
data_wire.columns = ['key', 'wire_1', 'wire_2', 'wire_3', 'wire_4', 'wire_5', 'wire_6', 'wire_7', \
                    'wire_8', 'wire_9']
```

In [190]:

#уберем NaN, заменив на 0

```
data_wire = data_wire.fillna(0)
```

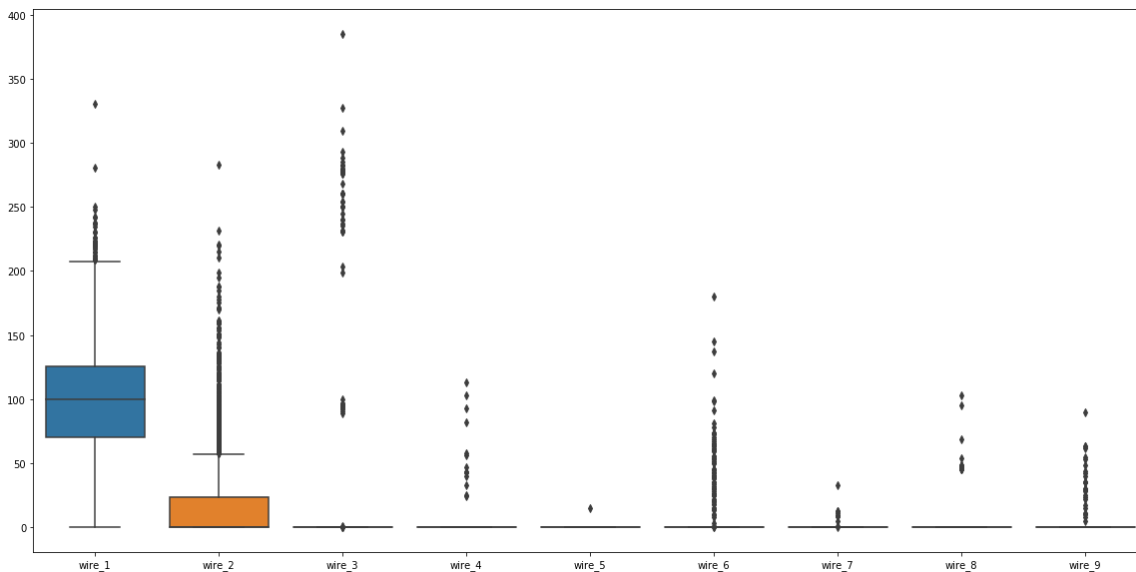
In [191]:

```
print("Диаграмма размаха по проволочным материалам (объем)")
plt.figure(figsize=(20,10))
sns.boxplot(data=data_wire[['wire_1','wire_2','wire_3','wire_4','wire_5','wire_6','wire_7',\
                             'wire_8','wire_9']])
```

Диаграмма размаха по проволочным материалам (объем)

Out[191]:

<matplotlib.axes._subplots.AxesSubplot at 0x7fcfb7dd4b50>



In [192]:

```
#уберем выбросы
data_wire = data_wire.query('wire_1<220 & wire_2<70')
```

In [193]:

```
#посчитаем суммарный объем проволоки
```

In [194]:

```
data_wire['wire_sum']=data_wire['wire_1']+data_wire['wire_2']+data_wire['wire_3']+data_
wire['wire_4']+data_wire['wire_5']+ \
                        data_wire['wire_6']+data_wire['wire_7']+data_wire['wire_8']+ data
_wire['wire_9']
```

Данные о проволочных материалах (время)

In [195]:

```
data_wire_time = load_df('/datasets/final_steel/data_wire_time.csv')
```

```
<class 'pandas.core.frame.DataFrame'>
```

```
RangeIndex: 3081 entries, 0 to 3080
```

```
Data columns (total 10 columns):
```

```
key          3081 non-null int64
```

```
Wire 1       3055 non-null object
```

```
Wire 2       1079 non-null object
```

```
Wire 3        63 non-null object
```

```
Wire 4        14 non-null object
```

```
Wire 5         1 non-null object
```

```
Wire 6        73 non-null object
```

```
Wire 7        11 non-null object
```

```
Wire 8        19 non-null object
```

```
Wire 9        29 non-null object
```

```
dtypes: int64(1), object(9)
```

```
memory usage: 240.8+ KB
```

```
None
```

	key		Wire 1		Wire 2		Wire 3	Wir
e 4	Wire 5	Wire 6	Wire 7	Wire 8	Wire 9			
0	1	2019-05-03	11:11:41			NaN		NaN
NaN	NaN	NaN	NaN	NaN	NaN			
1	2	2019-05-03	11:46:10			NaN		NaN
NaN	NaN	NaN	NaN	NaN	NaN			
2	3	2019-05-03	12:13:47			NaN		NaN
NaN	NaN	NaN	NaN	NaN	NaN			
3	4	2019-05-03	12:48:05			NaN		NaN
NaN	NaN	NaN	NaN	NaN	NaN			
4	5	2019-05-03	13:18:15	2019-05-03	13:32:06			NaN
NaN	NaN	NaN	NaN	NaN	NaN			
5	6	2019-05-03	13:59:02	2019-05-03	13:59:54			NaN
NaN	NaN	NaN	NaN	NaN	NaN			
6	7	2019-05-03	14:28:46			NaN		NaN
NaN	NaN	NaN	NaN	NaN	NaN			
7	8	2019-05-03	15:03:42			NaN		NaN
NaN	NaN	NaN	NaN	NaN	NaN			
8	9	2019-05-03	15:42:43	2019-05-03	15:58:12			NaN
NaN	NaN	NaN	NaN	NaN	NaN			
9	10	2019-05-03	16:20:25	2019-05-03	16:21:02			NaN
NaN	NaN	NaN	NaN	NaN	NaN			
10	11	2019-05-03	17:15:01			NaN		NaN
NaN	NaN	NaN	NaN	NaN	NaN			
11	12	2019-05-03	17:51:14			NaN		NaN
NaN	NaN	NaN	NaN	NaN	NaN			
12	13	2019-05-03	18:52:04	2019-05-03	18:52:34			NaN
NaN	NaN	NaN	NaN	NaN	NaN			
13	14	2019-05-03	20:12:21	2019-05-03	20:13:16			NaN
NaN	NaN	NaN	NaN	NaN	NaN			
14	15	2019-05-03	21:07:40	2019-05-03	21:15:12			NaN
NaN	NaN	NaN	NaN	NaN	NaN			
15	16	2019-05-03	22:17:29	2019-05-03	22:18:30			NaN
NaN	NaN	NaN	NaN	NaN	NaN			
16	17	2019-05-03	22:52:33	2019-05-03	23:05:53			NaN
NaN	NaN	NaN	NaN	NaN	NaN			
17	18	2019-05-03	23:35:52	2019-05-03	23:37:11			NaN
NaN	NaN	NaN	NaN	NaN	NaN			
18	19	2019-05-04	00:53:30	2019-05-04	00:54:36			NaN
NaN	NaN	NaN	NaN	NaN	NaN			
19	20	2019-05-04	01:50:12	2019-05-04	01:51:13			NaN
NaN	NaN	NaN	NaN	NaN	NaN			
20	21	2019-05-04	03:46:19	2019-05-04	03:48:09			NaN
NaN	NaN	NaN	NaN	NaN	NaN			

21	22	2019-05-04	04:00:38	2019-05-04	04:31:27	2019-05-04	04:47:53
NaN	NaN	NaN	NaN	NaN	NaN		
22	23	2019-05-04	05:18:03	2019-05-04	05:20:43	2019-05-04	05:40:08
NaN	NaN	NaN	NaN	NaN	NaN		
23	24	2019-05-04	06:10:47	2019-05-04	06:45:47		NaN
NaN	NaN	NaN	NaN	NaN	NaN		
24	25	2019-05-04	06:36:11	2019-05-04	06:36:50		NaN
NaN	NaN	NaN	NaN	NaN	NaN		
25	26	2019-05-04	07:16:17		NaN		NaN
NaN	NaN	NaN	NaN	NaN	NaN		
26	27	2019-05-04	07:55:27	2019-05-04	08:08:58		NaN
NaN	NaN	NaN	NaN	NaN	NaN		
27	28	2019-05-04	08:35:59		NaN		NaN
NaN	NaN	NaN	NaN	NaN	NaN		
28	29	2019-05-04	09:08:09		NaN		NaN
NaN	NaN	NaN	NaN	NaN	NaN		
29	30	2019-05-04	09:58:42	2019-05-04	09:59:37		NaN
NaN	NaN	NaN	NaN	NaN	NaN		

```

key
count    3081.000000
mean     1623.426485
std       932.996726
min        1.000000
25%       823.000000
50%      1619.000000
75%      2434.000000
max      3241.000000

```

In [196]:

```

#изменим названия столбцов
data_wire_time.columns = ['key', 'wire_1', 'wire_2', 'wire_3', 'wire_4', 'wire_5', 'wire_6',
'wire_7',\
                        'wire_8', 'wire_9']

```

In [197]:

```

#уберем NAN, заменив на пробел
data_wire_time = data_wire_time.fillna('')

```

In [198]:

```

#изменим mun
data_wire_time[['wire_1', 'wire_2', 'wire_3', 'wire_4', 'wire_5', 'wire_6', 'wire_7',\
                'wire_8', 'wire_9']] = data_wire_time[['wire_1', 'wire_2', 'wire_3', 'wire_4', 'wire_5', 'wire_6', 'wire_7',\
                'wire_8', 'wire_9']].apply(pd.to_datetime)

```

Объединение итоговой таблицы

In [199]:

```

# из данных датасетов будем делать датафрейм с признаками
# result_data_arc_1, data_bulk, data_gas, data_wire, temp_1
#result_data_temp_1 - в данном датафрейме находится наш целевой признак

```

In [200]:

```
full = result_data_arc_1.merge(data_bulk, on='key').merge(data_gas, on='key').merge(data_wire, on='key').merge(result_data_temp_1, on='key').merge(temp_1, on='key')#merge(result_data_temp_1, on='key').merge(result_data_temp_2, on='key')#.merge(result_data_temp_3, on='key').merge(result_data_temp_4, on='key').merge(result_data_temp_5, on='key')
```

In [201]:

```
full.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 2433 entries, 0 to 2432
Data columns (total 33 columns):
key                2433 non-null int64
activ_power        2433 non-null float64
reactiv_power      2433 non-null float64
apparent_power     2433 non-null float64
bulk_1             2433 non-null float64
bulk_2             2433 non-null float64
bulk_3             2433 non-null float64
bulk_4             2433 non-null float64
bulk_5             2433 non-null float64
bulk_6             2433 non-null float64
bulk_7             2433 non-null float64
bulk_8             2433 non-null float64
bulk_9             2433 non-null float64
bulk_10            2433 non-null float64
bulk_11            2433 non-null float64
bulk_12            2433 non-null float64
bulk_13            2433 non-null float64
bulk_14            2433 non-null float64
bulk_15            2433 non-null float64
bulk_sum           2433 non-null float64
gas_1              2433 non-null float64
wire_1             2433 non-null float64
wire_2             2433 non-null float64
wire_3             2433 non-null float64
wire_4             2433 non-null float64
wire_5             2433 non-null float64
wire_6             2433 non-null float64
wire_7             2433 non-null float64
wire_8             2433 non-null float64
wire_9             2433 non-null float64
wire_sum           2433 non-null float64
temp_x             2433 non-null int64
temp_y             2433 non-null int64
dtypes: float64(30), int64(3)
memory usage: 646.3 KB
```

In [202]:

```
full = full.drop_duplicates(keep='first')
```

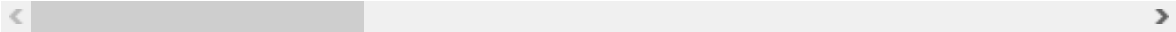
In [203]:

full

Out[203]:

	key	activ_power	reactiv_power	apparent_power	bulk_1	bulk_2	bulk_3	bulk_4	bu
0	1	0.692755	0.414397	0.807239	0.0	0.0	0.0	43.0	
1	2	0.827743	0.516874	0.975867	0.0	0.0	0.0	73.0	
2	3	0.250280	0.155901	0.294865	0.0	0.0	0.0	34.0	
3	4	1.220955	0.754719	1.435385	0.0	0.0	0.0	81.0	
4	5	0.267457	0.181992	0.323503	0.0	0.0	0.0	78.0	
...
2428	3237	0.606049	0.419084	0.736835	0.0	0.0	170.0	0.0	
2429	3238	0.717559	0.520623	0.886532	0.0	0.0	126.0	0.0	
2430	3239	0.488352	0.317727	0.582613	0.0	0.0	0.0	0.0	
2431	3240	0.548882	0.416994	0.689315	0.0	0.0	0.0	0.0	
2432	3241	0.306580	0.196708	0.364260	0.0	0.0	0.0	0.0	

2433 rows × 33 columns



Выбор признаков

In [204]:

```
corr=full.corr() #выделим признаки, которые влияют конечную температуру  
print("Значения корреляции цены и факторов")  
print( corr['temp_x'])
```

Значения корреляции цены и факторов

```
key                -0.139860  
activ_power        0.007202  
reactiv_power      -0.013174  
apparent_power     -0.000917  
bulk_1             -0.015897  
bulk_2             0.022789  
bulk_3             -0.047278  
bulk_4             0.105926  
bulk_5             -0.010571  
bulk_6             -0.118795  
bulk_7             -0.018331  
bulk_8             -0.016341  
bulk_9             -0.035255  
bulk_10            0.055314  
bulk_11            -0.107891  
bulk_12            0.100407  
bulk_13            -0.000824  
bulk_14            0.033457  
bulk_15            0.108221  
bulk_sum           0.079655  
gas_1              0.035761  
wire_1             0.207774  
wire_2             -0.078648  
wire_3             0.006654  
wire_4             -0.084192  
wire_5             0.036892  
wire_6             -0.036054  
wire_7             0.044737  
wire_8             -0.034174  
wire_9             -0.000210  
wire_sum           0.122803  
temp_x             1.000000  
temp_y             0.523041  
Name: temp_x, dtype: float64
```

Вывод:

Необходимые библиотеки добавлены, общая информация по датафрейму изучена. Была проведена предобработка данных. Изменены типы данных, удалены выбросы. Данные объединены в один датафрейм для удобства дальнейшей работы. Проведен анализ корреляции признаков. Все признаки минимально коррелируют с целевым признаком, кроме самой первой температуры, суммарного объема проволоки, объема первого вида проволоки.

Подготовка выборок

<https://pythonru.com/uroki/osnovy-pandas-3-vazhnye-metody-formatirovaniya-dannyh>
(<https://pythonru.com/uroki/osnovy-pandas-3-vazhnye-metody-formatirovaniya-dannyh>)

In [205]:

```
#создадим переменные для признаков и целевого признака:

features = full.drop(['key', 'temp_x'], axis=1) #'wire_3', 'wire_4', 'wire_5', 'wire_6', 'wi
re_7', \
                                #'wire_8', 'wire_9', 'bulk_1', 'bulk_3', 'bulk_4', 'bulk_6', \
                                #'bulk_10', 'bulk_11', 'bulk_12', 'bulk_14', 'bulk_15'

target= full['temp_x']
```

In [206]:

```
# разделим выборки, на тестовую и обучающую выборку признаков и целев признака
features_train, features_test, target_train, target_test = train_test_split(features, t
arget, test_size=0.3, random_state=12345)
```

In [207]:

```
# #Произведем масштабирование

# numeric = features.columns
# numeric
```

Out[207]:

```
Index(['activ_power', 'reactiv_power', 'apparent_power', 'bulk_1', 'bulk_
2', 'bulk_3', 'bulk_4', 'bulk_5', 'bulk_6', 'bulk_7', 'bulk_8', 'bulk_9',
'bulk_10', 'bulk_11', 'bulk_12', 'bulk_13', 'bulk_14', 'bulk_15', 'bulk_su
m', 'gas_1', 'wire_1', 'wire_2', 'wire_3', 'wire_4', 'wire_5', 'wire_6',
'wire_7', 'wire_8', 'wire_9', 'wire_sum', 'temp_y'], dtype='object')
```

In [208]:

```
# scaler = StandardScaler()
# scaler.fit(features_train[numeric])
# features_train[numeric] = scaler.transform(features_train[numeric])
# features_test[numeric] = scaler.transform(features_test[numeric])
```

Без масштабирования значение MAE меньше, поэтому было решено в данном проекте масштабирование не использовать.

Обучение моделей и подбор гиперпараметров

In [209]:

```
#обучим модель линейной регрессии

model_LR = LinearRegression().fit(features_train, target_train)
predict_LR = model_LR.predict(features_train)
mae_LR = mean_absolute_error(target_train, predict_LR)
mae_LR
```

Out[209]:

9.51563010331799

In [211]:

```
#подберем гиперпараметры для модели Catboost

model = CatBoostRegressor()
parameters = {'depth'      : [3, 5, 8],
              'learning_rate' : [0.03, 0.1]
              #, 'iterations' : [30, 100]
              }
grid = GridSearchCV(estimator=model, scoring= 'neg_mean_absolute_error', param_grid = parameters, cv = 2)
gs_results_CB = grid.fit(features_train, target_train)

print("BEST PARAMETERS: " + str(gs_results_CB.best_params_))
```

0:	learn: 14.7006972	total: 937us	remaining: 937ms
1:	learn: 14.6060888	total: 2.53ms	remaining: 1.26s
2:	learn: 14.5024509	total: 3.81ms	remaining: 1.27s
3:	learn: 14.4055849	total: 4.73ms	remaining: 1.18s
4:	learn: 14.3178006	total: 5.63ms	remaining: 1.12s
5:	learn: 14.2255952	total: 6.97ms	remaining: 1.15s
6:	learn: 14.1430158	total: 7.92ms	remaining: 1.12s
7:	learn: 14.0544926	total: 8.85ms	remaining: 1.1s
8:	learn: 13.9694446	total: 9.92ms	remaining: 1.09s
9:	learn: 13.8972548	total: 11.3ms	remaining: 1.12s
10:	learn: 13.8265174	total: 12.1ms	remaining: 1.09s
11:	learn: 13.7579774	total: 13ms	remaining: 1.07s
12:	learn: 13.6885932	total: 15ms	remaining: 1.14s
13:	learn: 13.6133885	total: 16.1ms	remaining: 1.14s
14:	learn: 13.5519911	total: 17.7ms	remaining: 1.16s
15:	learn: 13.4861897	total: 18.6ms	remaining: 1.14s
16:	learn: 13.4165570	total: 19.9ms	remaining: 1.15s
17:	learn: 13.3522947	total: 21ms	remaining: 1.15s
18:	learn: 13.3004599	total: 22.2ms	remaining: 1.14s
19:	learn: 13.2582780	total: 23.2ms	remaining: 1.14s
20:	learn: 13.2124567	total: 24.8ms	remaining: 1.16s
21:	learn: 13.1552053	total: 26.4ms	remaining: 1.17s
22:	learn: 13.1083710	total: 102ms	remaining: 4.32s
23:	learn: 13.0655819	total: 103ms	remaining: 4.19s
24:	learn: 13.0166362	total: 104ms	remaining: 4.06s
25:	learn: 12.9784511	total: 105ms	remaining: 3.93s
26:	learn: 12.9404653	total: 106ms	remaining: 3.81s
27:	learn: 12.8866552	total: 106ms	remaining: 3.7s
28:	learn: 12.8363840	total: 107ms	remaining: 3.59s
29:	learn: 12.7977056	total: 108ms	remaining: 3.49s
30:	learn: 12.7655304	total: 109ms	remaining: 3.4s
31:	learn: 12.7288528	total: 109ms	remaining: 3.31s
32:	learn: 12.6921350	total: 110ms	remaining: 3.23s
33:	learn: 12.6587283	total: 112ms	remaining: 3.17s
34:	learn: 12.6300461	total: 112ms	remaining: 3.1s
35:	learn: 12.5945597	total: 113ms	remaining: 3.03s
36:	learn: 12.5679714	total: 114ms	remaining: 2.96s
37:	learn: 12.5325037	total: 114ms	remaining: 2.9s
38:	learn: 12.5055873	total: 115ms	remaining: 2.84s
39:	learn: 12.4657209	total: 116ms	remaining: 2.78s
40:	learn: 12.4527839	total: 196ms	remaining: 4.58s
41:	learn: 12.4404914	total: 197ms	remaining: 4.49s
42:	learn: 12.4149460	total: 198ms	remaining: 4.39s
43:	learn: 12.3897645	total: 198ms	remaining: 4.31s
44:	learn: 12.3602357	total: 199ms	remaining: 4.23s
45:	learn: 12.3326749	total: 202ms	remaining: 4.18s
46:	learn: 12.3073467	total: 202ms	remaining: 4.1s
47:	learn: 12.2819011	total: 203ms	remaining: 4.03s
48:	learn: 12.2602567	total: 204ms	remaining: 3.95s
49:	learn: 12.2407400	total: 204ms	remaining: 3.88s
50:	learn: 12.2183853	total: 205ms	remaining: 3.81s
51:	learn: 12.1977087	total: 206ms	remaining: 3.75s
52:	learn: 12.1777061	total: 206ms	remaining: 3.69s
53:	learn: 12.1547833	total: 207ms	remaining: 3.63s
54:	learn: 12.1367897	total: 208ms	remaining: 3.57s
55:	learn: 12.1169665	total: 208ms	remaining: 3.51s
56:	learn: 12.0950801	total: 209ms	remaining: 3.46s
57:	learn: 12.0717090	total: 215ms	remaining: 3.5s
58:	learn: 12.0608620	total: 289ms	remaining: 4.6s
59:	learn: 12.0438908	total: 290ms	remaining: 4.54s
60:	learn: 12.0287477	total: 291ms	remaining: 4.47s

61:	learn: 12.0099597	total: 291ms	remaining: 4.41s
62:	learn: 11.9923847	total: 292ms	remaining: 4.34s
63:	learn: 11.9741348	total: 293ms	remaining: 4.28s
64:	learn: 11.9621535	total: 293ms	remaining: 4.22s
65:	learn: 11.9498687	total: 294ms	remaining: 4.16s
66:	learn: 11.9334500	total: 295ms	remaining: 4.1s
67:	learn: 11.9144133	total: 296ms	remaining: 4.05s
68:	learn: 11.8992777	total: 297ms	remaining: 4s
69:	learn: 11.8825926	total: 298ms	remaining: 3.95s
70:	learn: 11.8636067	total: 299ms	remaining: 3.91s
71:	learn: 11.8458802	total: 300ms	remaining: 3.87s
72:	learn: 11.8345179	total: 301ms	remaining: 3.82s
73:	learn: 11.8230144	total: 302ms	remaining: 3.78s
74:	learn: 11.8005745	total: 304ms	remaining: 3.74s
75:	learn: 11.7868518	total: 309ms	remaining: 3.75s
76:	learn: 11.7715127	total: 383ms	remaining: 4.58s
77:	learn: 11.7607538	total: 383ms	remaining: 4.53s
78:	learn: 11.7509042	total: 384ms	remaining: 4.48s
79:	learn: 11.7340518	total: 385ms	remaining: 4.43s
80:	learn: 11.7175611	total: 386ms	remaining: 4.38s
81:	learn: 11.7022530	total: 388ms	remaining: 4.34s
82:	learn: 11.6921087	total: 389ms	remaining: 4.29s
83:	learn: 11.6870196	total: 390ms	remaining: 4.25s
84:	learn: 11.6708210	total: 391ms	remaining: 4.21s
85:	learn: 11.6583664	total: 392ms	remaining: 4.17s
86:	learn: 11.6467814	total: 394ms	remaining: 4.13s
87:	learn: 11.6444764	total: 395ms	remaining: 4.09s
88:	learn: 11.6341522	total: 396ms	remaining: 4.05s
89:	learn: 11.6178841	total: 397ms	remaining: 4.01s
90:	learn: 11.6081286	total: 398ms	remaining: 3.98s
91:	learn: 11.6021223	total: 477ms	remaining: 4.7s
92:	learn: 11.5899540	total: 477ms	remaining: 4.66s
93:	learn: 11.5776207	total: 478ms	remaining: 4.61s
94:	learn: 11.5652698	total: 479ms	remaining: 4.56s
95:	learn: 11.5557144	total: 480ms	remaining: 4.52s
96:	learn: 11.5487966	total: 481ms	remaining: 4.48s
97:	learn: 11.5378747	total: 482ms	remaining: 4.43s
98:	learn: 11.5245314	total: 483ms	remaining: 4.39s
99:	learn: 11.5128383	total: 484ms	remaining: 4.35s
100:	learn: 11.5034038	total: 484ms	remaining: 4.31s
101:	learn: 11.4977344	total: 485ms	remaining: 4.27s
102:	learn: 11.4866931	total: 486ms	remaining: 4.23s
103:	learn: 11.4697869	total: 487ms	remaining: 4.19s
104:	learn: 11.4597295	total: 487ms	remaining: 4.16s
105:	learn: 11.4506098	total: 488ms	remaining: 4.12s
106:	learn: 11.4423565	total: 489ms	remaining: 4.08s
107:	learn: 11.4292231	total: 490ms	remaining: 4.04s
108:	learn: 11.4228464	total: 490ms	remaining: 4.01s
109:	learn: 11.4144258	total: 569ms	remaining: 4.61s
110:	learn: 11.4092665	total: 570ms	remaining: 4.57s
111:	learn: 11.4012139	total: 571ms	remaining: 4.53s
112:	learn: 11.3951291	total: 572ms	remaining: 4.49s
113:	learn: 11.3844958	total: 573ms	remaining: 4.45s
114:	learn: 11.3776786	total: 575ms	remaining: 4.43s
115:	learn: 11.3596113	total: 576ms	remaining: 4.39s
116:	learn: 11.3532828	total: 577ms	remaining: 4.35s
117:	learn: 11.3476113	total: 578ms	remaining: 4.32s
118:	learn: 11.3392480	total: 578ms	remaining: 4.28s
119:	learn: 11.3325109	total: 579ms	remaining: 4.25s
120:	learn: 11.3234844	total: 580ms	remaining: 4.22s
121:	learn: 11.3156513	total: 582ms	remaining: 4.19s

122:	learn: 11.3086242	total: 583ms	remaining: 4.16s
123:	learn: 11.3009325	total: 584ms	remaining: 4.13s
124:	learn: 11.2966041	total: 585ms	remaining: 4.1s
125:	learn: 11.2916363	total: 587ms	remaining: 4.07s
126:	learn: 11.2838755	total: 663ms	remaining: 4.56s
127:	learn: 11.2736667	total: 664ms	remaining: 4.52s
128:	learn: 11.2647634	total: 664ms	remaining: 4.49s
129:	learn: 11.2556457	total: 665ms	remaining: 4.45s
130:	learn: 11.2511391	total: 666ms	remaining: 4.42s
131:	learn: 11.2446695	total: 667ms	remaining: 4.38s
132:	learn: 11.2360923	total: 667ms	remaining: 4.35s
133:	learn: 11.2276957	total: 668ms	remaining: 4.32s
134:	learn: 11.2225810	total: 669ms	remaining: 4.29s
135:	learn: 11.2125196	total: 670ms	remaining: 4.25s
136:	learn: 11.2062090	total: 670ms	remaining: 4.22s
137:	learn: 11.2006179	total: 671ms	remaining: 4.19s
138:	learn: 11.1896846	total: 672ms	remaining: 4.16s
139:	learn: 11.1782659	total: 673ms	remaining: 4.13s
140:	learn: 11.1702693	total: 673ms	remaining: 4.1s
141:	learn: 11.1624114	total: 674ms	remaining: 4.07s
142:	learn: 11.1563373	total: 675ms	remaining: 4.04s
143:	learn: 11.1479233	total: 757ms	remaining: 4.5s
144:	learn: 11.1423688	total: 758ms	remaining: 4.47s
145:	learn: 11.1383500	total: 758ms	remaining: 4.44s
146:	learn: 11.1308196	total: 759ms	remaining: 4.41s
147:	learn: 11.1262492	total: 760ms	remaining: 4.38s
148:	learn: 11.1179219	total: 761ms	remaining: 4.34s
149:	learn: 11.1128140	total: 762ms	remaining: 4.32s
150:	learn: 11.1060705	total: 764ms	remaining: 4.3s
151:	learn: 11.0994004	total: 765ms	remaining: 4.27s
152:	learn: 11.0862111	total: 766ms	remaining: 4.24s
153:	learn: 11.0822544	total: 767ms	remaining: 4.21s
154:	learn: 11.0775126	total: 768ms	remaining: 4.18s
155:	learn: 11.0748004	total: 768ms	remaining: 4.16s
156:	learn: 11.0681498	total: 769ms	remaining: 4.13s
157:	learn: 11.0619321	total: 770ms	remaining: 4.1s
158:	learn: 11.0561693	total: 771ms	remaining: 4.08s
159:	learn: 11.0496191	total: 771ms	remaining: 4.05s
160:	learn: 11.0412188	total: 853ms	remaining: 4.44s
161:	learn: 11.0366328	total: 854ms	remaining: 4.42s
162:	learn: 11.0335235	total: 855ms	remaining: 4.39s
163:	learn: 11.0263416	total: 855ms	remaining: 4.36s
164:	learn: 11.0145323	total: 856ms	remaining: 4.33s
165:	learn: 11.0086512	total: 857ms	remaining: 4.3s
166:	learn: 11.0036433	total: 858ms	remaining: 4.28s
167:	learn: 10.9988986	total: 859ms	remaining: 4.25s
168:	learn: 10.9930395	total: 859ms	remaining: 4.22s
169:	learn: 10.9891809	total: 860ms	remaining: 4.2s
170:	learn: 10.9857135	total: 861ms	remaining: 4.17s
171:	learn: 10.9794249	total: 861ms	remaining: 4.14s
172:	learn: 10.9722814	total: 862ms	remaining: 4.12s
173:	learn: 10.9689741	total: 863ms	remaining: 4.1s
174:	learn: 10.9637170	total: 864ms	remaining: 4.07s
175:	learn: 10.9562789	total: 864ms	remaining: 4.05s
176:	learn: 10.9510103	total: 865ms	remaining: 4.02s
177:	learn: 10.9443861	total: 937ms	remaining: 4.33s
178:	learn: 10.9315624	total: 937ms	remaining: 4.3s
179:	learn: 10.9197083	total: 938ms	remaining: 4.27s
180:	learn: 10.9117267	total: 939ms	remaining: 4.25s
181:	learn: 10.9061573	total: 940ms	remaining: 4.22s
182:	learn: 10.8979228	total: 940ms	remaining: 4.2s

183:	learn: 10.8906256	total: 941ms	remaining: 4.17s
184:	learn: 10.8816475	total: 942ms	remaining: 4.15s
185:	learn: 10.8777414	total: 943ms	remaining: 4.13s
186:	learn: 10.8683310	total: 944ms	remaining: 4.1s
187:	learn: 10.8632275	total: 945ms	remaining: 4.08s
188:	learn: 10.8555788	total: 946ms	remaining: 4.06s
189:	learn: 10.8545432	total: 947ms	remaining: 4.04s
190:	learn: 10.8466132	total: 947ms	remaining: 4.01s
191:	learn: 10.8439320	total: 948ms	remaining: 3.99s
192:	learn: 10.8365040	total: 949ms	remaining: 3.97s
193:	learn: 10.8338624	total: 950ms	remaining: 3.95s
194:	learn: 10.8289039	total: 951ms	remaining: 3.92s
195:	learn: 10.8220657	total: 1.03s	remaining: 4.22s
196:	learn: 10.8175915	total: 1.03s	remaining: 4.2s
197:	learn: 10.8092331	total: 1.03s	remaining: 4.17s
198:	learn: 10.8023670	total: 1.03s	remaining: 4.15s
199:	learn: 10.7982981	total: 1.03s	remaining: 4.13s
200:	learn: 10.7938052	total: 1.03s	remaining: 4.1s
201:	learn: 10.7862337	total: 1.03s	remaining: 4.08s
202:	learn: 10.7812921	total: 1.03s	remaining: 4.06s
203:	learn: 10.7767205	total: 1.03s	remaining: 4.04s
204:	learn: 10.7687459	total: 1.03s	remaining: 4.01s
205:	learn: 10.7613844	total: 1.03s	remaining: 3.99s
206:	learn: 10.7585530	total: 1.04s	remaining: 3.97s
207:	learn: 10.7534803	total: 1.04s	remaining: 3.95s
208:	learn: 10.7489109	total: 1.04s	remaining: 3.93s
209:	learn: 10.7440493	total: 1.04s	remaining: 3.91s
210:	learn: 10.7378833	total: 1.04s	remaining: 3.89s
211:	learn: 10.7332594	total: 1.04s	remaining: 3.87s
212:	learn: 10.7294601	total: 1.11s	remaining: 4.12s
213:	learn: 10.7261077	total: 1.11s	remaining: 4.09s
214:	learn: 10.7205159	total: 1.11s	remaining: 4.07s
215:	learn: 10.7137199	total: 1.12s	remaining: 4.05s
216:	learn: 10.7061982	total: 1.12s	remaining: 4.03s
217:	learn: 10.7017015	total: 1.12s	remaining: 4.01s
218:	learn: 10.6934030	total: 1.12s	remaining: 3.99s
219:	learn: 10.6896013	total: 1.12s	remaining: 3.97s
220:	learn: 10.6864907	total: 1.12s	remaining: 3.95s
221:	learn: 10.6815947	total: 1.12s	remaining: 3.93s
222:	learn: 10.6769018	total: 1.12s	remaining: 3.91s
223:	learn: 10.6688480	total: 1.12s	remaining: 3.89s
224:	learn: 10.6662163	total: 1.12s	remaining: 3.87s
225:	learn: 10.6622125	total: 1.12s	remaining: 3.85s
226:	learn: 10.6582255	total: 1.13s	remaining: 3.85s
227:	learn: 10.6532178	total: 1.13s	remaining: 3.83s
228:	learn: 10.6483237	total: 1.13s	remaining: 3.81s
229:	learn: 10.6452254	total: 1.21s	remaining: 4.04s
230:	learn: 10.6419002	total: 1.21s	remaining: 4.02s
231:	learn: 10.6338712	total: 1.21s	remaining: 4s
232:	learn: 10.6299063	total: 1.21s	remaining: 3.98s
233:	learn: 10.6281325	total: 1.21s	remaining: 3.96s
234:	learn: 10.6207890	total: 1.21s	remaining: 3.94s
235:	learn: 10.6072099	total: 1.21s	remaining: 3.92s
236:	learn: 10.6050294	total: 1.21s	remaining: 3.9s
237:	learn: 10.6016501	total: 1.21s	remaining: 3.88s
238:	learn: 10.5966970	total: 1.21s	remaining: 3.87s
239:	learn: 10.5935685	total: 1.21s	remaining: 3.85s
240:	learn: 10.5891972	total: 1.22s	remaining: 3.83s
241:	learn: 10.5842131	total: 1.22s	remaining: 3.81s
242:	learn: 10.5826322	total: 1.22s	remaining: 3.79s
243:	learn: 10.5756380	total: 1.22s	remaining: 3.77s

244:	learn: 10.5716194	total: 1.22s	remaining: 3.75s
245:	learn: 10.5676637	total: 1.22s	remaining: 3.74s
246:	learn: 10.5639830	total: 1.3s	remaining: 3.96s
247:	learn: 10.5571535	total: 1.3s	remaining: 3.95s
248:	learn: 10.5495420	total: 1.3s	remaining: 3.93s
249:	learn: 10.5442682	total: 1.3s	remaining: 3.91s
250:	learn: 10.5419173	total: 1.3s	remaining: 3.89s
251:	learn: 10.5354927	total: 1.3s	remaining: 3.88s
252:	learn: 10.5322042	total: 1.31s	remaining: 3.86s
253:	learn: 10.5233342	total: 1.31s	remaining: 3.84s
254:	learn: 10.5166130	total: 1.31s	remaining: 3.82s
255:	learn: 10.5068580	total: 1.31s	remaining: 3.81s
256:	learn: 10.4992100	total: 1.31s	remaining: 3.79s
257:	learn: 10.4957749	total: 1.31s	remaining: 3.77s
258:	learn: 10.4893500	total: 1.31s	remaining: 3.76s
259:	learn: 10.4809223	total: 1.31s	remaining: 3.74s
260:	learn: 10.4755241	total: 1.31s	remaining: 3.73s
261:	learn: 10.4729155	total: 1.32s	remaining: 3.71s
262:	learn: 10.4654762	total: 1.39s	remaining: 3.9s
263:	learn: 10.4537081	total: 1.39s	remaining: 3.89s
264:	learn: 10.4475590	total: 1.39s	remaining: 3.87s
265:	learn: 10.4445962	total: 1.4s	remaining: 3.85s
266:	learn: 10.4417262	total: 1.4s	remaining: 3.83s
267:	learn: 10.4382076	total: 1.4s	remaining: 3.82s
268:	learn: 10.4295707	total: 1.4s	remaining: 3.8s
269:	learn: 10.4268565	total: 1.4s	remaining: 3.78s
270:	learn: 10.4186000	total: 1.4s	remaining: 3.76s
271:	learn: 10.4126871	total: 1.4s	remaining: 3.75s
272:	learn: 10.4063951	total: 1.4s	remaining: 3.73s
273:	learn: 10.3990289	total: 1.4s	remaining: 3.71s
274:	learn: 10.3919656	total: 1.4s	remaining: 3.7s
275:	learn: 10.3886467	total: 1.4s	remaining: 3.68s
276:	learn: 10.3830750	total: 1.4s	remaining: 3.66s
277:	learn: 10.3804266	total: 1.4s	remaining: 3.65s
278:	learn: 10.3771508	total: 1.41s	remaining: 3.63s
279:	learn: 10.3709735	total: 1.41s	remaining: 3.62s
280:	learn: 10.3684514	total: 1.41s	remaining: 3.6s
281:	learn: 10.3602968	total: 1.48s	remaining: 3.78s
282:	learn: 10.3582299	total: 1.49s	remaining: 3.77s
283:	learn: 10.3435833	total: 1.49s	remaining: 3.75s
284:	learn: 10.3379930	total: 1.49s	remaining: 3.73s
285:	learn: 10.3321903	total: 1.49s	remaining: 3.71s
286:	learn: 10.3254535	total: 1.49s	remaining: 3.7s
287:	learn: 10.3181688	total: 1.49s	remaining: 3.68s
288:	learn: 10.3139317	total: 1.49s	remaining: 3.67s
289:	learn: 10.3094288	total: 1.49s	remaining: 3.65s
290:	learn: 10.3073593	total: 1.49s	remaining: 3.63s
291:	learn: 10.3047576	total: 1.49s	remaining: 3.62s
292:	learn: 10.2991427	total: 1.49s	remaining: 3.6s
293:	learn: 10.2971238	total: 1.49s	remaining: 3.59s
294:	learn: 10.2909748	total: 1.49s	remaining: 3.57s
295:	learn: 10.2857918	total: 1.5s	remaining: 3.56s
296:	learn: 10.2823736	total: 1.5s	remaining: 3.55s
297:	learn: 10.2784494	total: 1.5s	remaining: 3.53s
298:	learn: 10.2701133	total: 1.58s	remaining: 3.7s
299:	learn: 10.2637306	total: 1.58s	remaining: 3.68s
300:	learn: 10.2567960	total: 1.58s	remaining: 3.67s
301:	learn: 10.2496597	total: 1.58s	remaining: 3.65s
302:	learn: 10.2426886	total: 1.58s	remaining: 3.64s
303:	learn: 10.2385307	total: 1.58s	remaining: 3.62s
304:	learn: 10.2341133	total: 1.58s	remaining: 3.6s

305:	learn: 10.2293260	total: 1.58s	remaining: 3.59s
306:	learn: 10.2270624	total: 1.58s	remaining: 3.57s
307:	learn: 10.2192276	total: 1.58s	remaining: 3.56s
308:	learn: 10.2137896	total: 1.58s	remaining: 3.54s
309:	learn: 10.2042226	total: 1.58s	remaining: 3.53s
310:	learn: 10.2001917	total: 1.59s	remaining: 3.51s
311:	learn: 10.1920460	total: 1.59s	remaining: 3.5s
312:	learn: 10.1901601	total: 1.59s	remaining: 3.48s
313:	learn: 10.1816430	total: 1.59s	remaining: 3.47s
314:	learn: 10.1765051	total: 1.59s	remaining: 3.46s
315:	learn: 10.1713490	total: 1.67s	remaining: 3.62s
316:	learn: 10.1613714	total: 1.67s	remaining: 3.6s
317:	learn: 10.1560223	total: 1.67s	remaining: 3.59s
318:	learn: 10.1483165	total: 1.67s	remaining: 3.57s
319:	learn: 10.1405004	total: 1.67s	remaining: 3.56s
320:	learn: 10.1350304	total: 1.68s	remaining: 3.54s
321:	learn: 10.1294673	total: 1.68s	remaining: 3.53s
322:	learn: 10.1273880	total: 1.68s	remaining: 3.51s
323:	learn: 10.1227362	total: 1.68s	remaining: 3.5s
324:	learn: 10.1119252	total: 1.68s	remaining: 3.48s
325:	learn: 10.1073686	total: 1.68s	remaining: 3.47s
326:	learn: 10.1012492	total: 1.68s	remaining: 3.46s
327:	learn: 10.0987256	total: 1.68s	remaining: 3.44s
328:	learn: 10.0952549	total: 1.68s	remaining: 3.43s
329:	learn: 10.0868381	total: 1.68s	remaining: 3.42s
330:	learn: 10.0818992	total: 1.68s	remaining: 3.4s
331:	learn: 10.0792339	total: 1.69s	remaining: 3.39s
332:	learn: 10.0726924	total: 1.76s	remaining: 3.53s
333:	learn: 10.0706481	total: 1.76s	remaining: 3.52s
334:	learn: 10.0659761	total: 1.76s	remaining: 3.5s
335:	learn: 10.0614566	total: 1.76s	remaining: 3.49s
336:	learn: 10.0585915	total: 1.77s	remaining: 3.48s
337:	learn: 10.0545808	total: 1.77s	remaining: 3.46s
338:	learn: 10.0493078	total: 1.77s	remaining: 3.45s
339:	learn: 10.0431254	total: 1.77s	remaining: 3.43s
340:	learn: 10.0412884	total: 1.77s	remaining: 3.42s
341:	learn: 10.0289822	total: 1.77s	remaining: 3.41s
342:	learn: 10.0246676	total: 1.77s	remaining: 3.39s
343:	learn: 10.0185683	total: 1.77s	remaining: 3.38s
344:	learn: 10.0145757	total: 1.77s	remaining: 3.37s
345:	learn: 10.0075503	total: 1.77s	remaining: 3.35s
346:	learn: 10.0056965	total: 1.77s	remaining: 3.34s
347:	learn: 10.0000573	total: 1.77s	remaining: 3.33s
348:	learn: 9.9981388	total: 1.78s	remaining: 3.31s
349:	learn: 9.9946092	total: 1.78s	remaining: 3.3s
350:	learn: 9.9920687	total: 1.85s	remaining: 3.42s
351:	learn: 9.9872869	total: 1.85s	remaining: 3.4s
352:	learn: 9.9801869	total: 1.85s	remaining: 3.39s
353:	learn: 9.9724577	total: 1.85s	remaining: 3.38s
354:	learn: 9.9712836	total: 1.85s	remaining: 3.37s
355:	learn: 9.9675071	total: 1.85s	remaining: 3.35s
356:	learn: 9.9661170	total: 1.85s	remaining: 3.34s
357:	learn: 9.9624132	total: 1.85s	remaining: 3.33s
358:	learn: 9.9606081	total: 1.85s	remaining: 3.31s
359:	learn: 9.9539610	total: 1.86s	remaining: 3.3s
360:	learn: 9.9492209	total: 1.86s	remaining: 3.29s
361:	learn: 9.9457172	total: 1.86s	remaining: 3.27s
362:	learn: 9.9435892	total: 1.86s	remaining: 3.26s
363:	learn: 9.9419914	total: 1.86s	remaining: 3.25s
364:	learn: 9.9402693	total: 1.86s	remaining: 3.24s
365:	learn: 9.9353602	total: 1.86s	remaining: 3.22s

366:	learn: 9.9342618	total: 1.86s	remaining: 3.21s
367:	learn: 9.9280435	total: 1.86s	remaining: 3.2s
368:	learn: 9.9255848	total: 1.88s	remaining: 3.21s
369:	learn: 9.9165546	total: 1.94s	remaining: 3.31s
370:	learn: 9.9115190	total: 1.94s	remaining: 3.29s
371:	learn: 9.9055950	total: 1.94s	remaining: 3.28s
372:	learn: 9.8990228	total: 1.94s	remaining: 3.27s
373:	learn: 9.8945787	total: 1.94s	remaining: 3.25s
374:	learn: 9.8856533	total: 1.95s	remaining: 3.24s
375:	learn: 9.8797916	total: 1.95s	remaining: 3.23s
376:	learn: 9.8766346	total: 1.95s	remaining: 3.22s
377:	learn: 9.8753368	total: 1.95s	remaining: 3.21s
378:	learn: 9.8724747	total: 1.95s	remaining: 3.19s
379:	learn: 9.8659421	total: 1.95s	remaining: 3.18s
380:	learn: 9.8646132	total: 1.95s	remaining: 3.17s
381:	learn: 9.8585364	total: 1.95s	remaining: 3.16s
382:	learn: 9.8527322	total: 1.95s	remaining: 3.14s
383:	learn: 9.8480235	total: 1.95s	remaining: 3.13s
384:	learn: 9.8395445	total: 1.95s	remaining: 3.12s
385:	learn: 9.8321117	total: 1.95s	remaining: 3.11s
386:	learn: 9.8284568	total: 2.03s	remaining: 3.22s
387:	learn: 9.8247575	total: 2.04s	remaining: 3.21s
388:	learn: 9.8163704	total: 2.04s	remaining: 3.2s
389:	learn: 9.8143439	total: 2.04s	remaining: 3.19s
390:	learn: 9.8109082	total: 2.04s	remaining: 3.17s
391:	learn: 9.8072071	total: 2.04s	remaining: 3.16s
392:	learn: 9.8046756	total: 2.04s	remaining: 3.15s
393:	learn: 9.8021727	total: 2.04s	remaining: 3.14s
394:	learn: 9.7978582	total: 2.04s	remaining: 3.13s
395:	learn: 9.7968162	total: 2.04s	remaining: 3.12s
396:	learn: 9.7930596	total: 2.04s	remaining: 3.11s
397:	learn: 9.7889510	total: 2.05s	remaining: 3.1s
398:	learn: 9.7832655	total: 2.05s	remaining: 3.08s
399:	learn: 9.7791759	total: 2.13s	remaining: 3.19s
400:	learn: 9.7738442	total: 2.13s	remaining: 3.18s
401:	learn: 9.7718664	total: 2.13s	remaining: 3.17s
402:	learn: 9.7658636	total: 2.13s	remaining: 3.16s
403:	learn: 9.7574410	total: 2.13s	remaining: 3.15s
404:	learn: 9.7540717	total: 2.13s	remaining: 3.13s
405:	learn: 9.7512820	total: 2.13s	remaining: 3.12s
406:	learn: 9.7494997	total: 2.13s	remaining: 3.11s
407:	learn: 9.7439821	total: 2.13s	remaining: 3.1s
408:	learn: 9.7402145	total: 2.13s	remaining: 3.09s
409:	learn: 9.7371621	total: 2.14s	remaining: 3.07s
410:	learn: 9.7362259	total: 2.14s	remaining: 3.06s
411:	learn: 9.7345362	total: 2.14s	remaining: 3.05s
412:	learn: 9.7300358	total: 2.14s	remaining: 3.04s
413:	learn: 9.7276616	total: 2.14s	remaining: 3.03s
414:	learn: 9.7241946	total: 2.14s	remaining: 3.02s
415:	learn: 9.7232533	total: 2.14s	remaining: 3s
416:	learn: 9.7187681	total: 2.14s	remaining: 2.99s
417:	learn: 9.7172645	total: 2.14s	remaining: 2.98s
418:	learn: 9.7163436	total: 2.22s	remaining: 3.08s
419:	learn: 9.7146838	total: 2.22s	remaining: 3.07s
420:	learn: 9.7072922	total: 2.22s	remaining: 3.06s
421:	learn: 9.7017189	total: 2.22s	remaining: 3.04s
422:	learn: 9.6955809	total: 2.22s	remaining: 3.03s
423:	learn: 9.6946847	total: 2.22s	remaining: 3.02s
424:	learn: 9.6869267	total: 2.23s	remaining: 3.01s
425:	learn: 9.6809189	total: 2.23s	remaining: 3s
426:	learn: 9.6776000	total: 2.23s	remaining: 2.99s

427:	learn: 9.6705654	total: 2.23s	remaining: 2.98s
428:	learn: 9.6656194	total: 2.23s	remaining: 2.96s
429:	learn: 9.6554869	total: 2.23s	remaining: 2.95s
430:	learn: 9.6543953	total: 2.23s	remaining: 2.94s
431:	learn: 9.6528596	total: 2.23s	remaining: 2.93s
432:	learn: 9.6517911	total: 2.23s	remaining: 2.92s
433:	learn: 9.6485698	total: 2.23s	remaining: 2.91s
434:	learn: 9.6432087	total: 2.23s	remaining: 2.9s
435:	learn: 9.6358840	total: 2.23s	remaining: 2.89s
436:	learn: 9.6319982	total: 2.23s	remaining: 2.88s
437:	learn: 9.6263559	total: 2.23s	remaining: 2.87s
438:	learn: 9.6255057	total: 2.31s	remaining: 2.96s
439:	learn: 9.6188242	total: 2.31s	remaining: 2.94s
440:	learn: 9.6150392	total: 2.31s	remaining: 2.94s
441:	learn: 9.6135724	total: 2.32s	remaining: 2.92s
442:	learn: 9.6105077	total: 2.32s	remaining: 2.91s
443:	learn: 9.6071802	total: 2.32s	remaining: 2.9s
444:	learn: 9.6014447	total: 2.32s	remaining: 2.89s
445:	learn: 9.5985998	total: 2.32s	remaining: 2.88s
446:	learn: 9.5928490	total: 2.32s	remaining: 2.87s
447:	learn: 9.5918382	total: 2.32s	remaining: 2.86s
448:	learn: 9.5897500	total: 2.33s	remaining: 2.85s
449:	learn: 9.5859821	total: 2.33s	remaining: 2.84s
450:	learn: 9.5830096	total: 2.33s	remaining: 2.83s
451:	learn: 9.5794473	total: 2.33s	remaining: 2.82s
452:	learn: 9.5740082	total: 2.33s	remaining: 2.81s
453:	learn: 9.5730293	total: 2.33s	remaining: 2.8s
454:	learn: 9.5700699	total: 2.41s	remaining: 2.88s
455:	learn: 9.5626840	total: 2.41s	remaining: 2.87s
456:	learn: 9.5587769	total: 2.41s	remaining: 2.86s
457:	learn: 9.5568145	total: 2.41s	remaining: 2.85s
458:	learn: 9.5556550	total: 2.41s	remaining: 2.84s
459:	learn: 9.5475197	total: 2.41s	remaining: 2.83s
460:	learn: 9.5433957	total: 2.41s	remaining: 2.82s
461:	learn: 9.5362465	total: 2.41s	remaining: 2.81s
462:	learn: 9.5287874	total: 2.41s	remaining: 2.8s
463:	learn: 9.5202113	total: 2.42s	remaining: 2.79s
464:	learn: 9.5192741	total: 2.42s	remaining: 2.78s
465:	learn: 9.5183821	total: 2.42s	remaining: 2.77s
466:	learn: 9.5136362	total: 2.42s	remaining: 2.76s
467:	learn: 9.5110915	total: 2.42s	remaining: 2.75s
468:	learn: 9.5077090	total: 2.42s	remaining: 2.74s
469:	learn: 9.5018824	total: 2.42s	remaining: 2.73s
470:	learn: 9.4997946	total: 2.42s	remaining: 2.72s
471:	learn: 9.4962309	total: 2.42s	remaining: 2.71s
472:	learn: 9.4938169	total: 2.42s	remaining: 2.7s
473:	learn: 9.4928086	total: 2.5s	remaining: 2.77s
474:	learn: 9.4911905	total: 2.5s	remaining: 2.76s
475:	learn: 9.4861148	total: 2.5s	remaining: 2.75s
476:	learn: 9.4830952	total: 2.5s	remaining: 2.74s
477:	learn: 9.4791432	total: 2.5s	remaining: 2.73s
478:	learn: 9.4764155	total: 2.5s	remaining: 2.72s
479:	learn: 9.4737936	total: 2.5s	remaining: 2.71s
480:	learn: 9.4696830	total: 2.51s	remaining: 2.7s
481:	learn: 9.4636677	total: 2.51s	remaining: 2.69s
482:	learn: 9.4628087	total: 2.51s	remaining: 2.68s
483:	learn: 9.4597281	total: 2.51s	remaining: 2.67s
484:	learn: 9.4565731	total: 2.51s	remaining: 2.66s
485:	learn: 9.4497568	total: 2.51s	remaining: 2.65s
486:	learn: 9.4466736	total: 2.51s	remaining: 2.64s
487:	learn: 9.4419157	total: 2.51s	remaining: 2.63s

488:	learn: 9.4410022	total: 2.52s	remaining: 2.63s
489:	learn: 9.4340663	total: 2.59s	remaining: 2.7s
490:	learn: 9.4316056	total: 2.59s	remaining: 2.69s
491:	learn: 9.4307420	total: 2.59s	remaining: 2.68s
492:	learn: 9.4280569	total: 2.59s	remaining: 2.67s
493:	learn: 9.4239763	total: 2.59s	remaining: 2.66s
494:	learn: 9.4225381	total: 2.6s	remaining: 2.65s
495:	learn: 9.4203667	total: 2.6s	remaining: 2.64s
496:	learn: 9.4194232	total: 2.6s	remaining: 2.63s
497:	learn: 9.4116907	total: 2.6s	remaining: 2.62s
498:	learn: 9.4082443	total: 2.6s	remaining: 2.61s
499:	learn: 9.4020028	total: 2.6s	remaining: 2.6s
500:	learn: 9.3993087	total: 2.6s	remaining: 2.59s
501:	learn: 9.3945395	total: 2.6s	remaining: 2.58s
502:	learn: 9.3908667	total: 2.6s	remaining: 2.57s
503:	learn: 9.3866779	total: 2.6s	remaining: 2.56s
504:	learn: 9.3857471	total: 2.6s	remaining: 2.55s
505:	learn: 9.3822660	total: 2.6s	remaining: 2.54s
506:	learn: 9.3790165	total: 2.6s	remaining: 2.53s
507:	learn: 9.3729427	total: 2.6s	remaining: 2.52s
508:	learn: 9.3703017	total: 2.6s	remaining: 2.51s
509:	learn: 9.3659930	total: 2.69s	remaining: 2.58s
510:	learn: 9.3615001	total: 2.69s	remaining: 2.57s
511:	learn: 9.3586064	total: 2.69s	remaining: 2.56s
512:	learn: 9.3538398	total: 2.69s	remaining: 2.55s
513:	learn: 9.3532493	total: 2.69s	remaining: 2.54s
514:	learn: 9.3468936	total: 2.69s	remaining: 2.53s
515:	learn: 9.3461558	total: 2.69s	remaining: 2.52s
516:	learn: 9.3413123	total: 2.69s	remaining: 2.51s
517:	learn: 9.3343736	total: 2.69s	remaining: 2.5s
518:	learn: 9.3293820	total: 2.69s	remaining: 2.5s
519:	learn: 9.3246305	total: 2.69s	remaining: 2.49s
520:	learn: 9.3219981	total: 2.69s	remaining: 2.48s
521:	learn: 9.3188920	total: 2.69s	remaining: 2.47s
522:	learn: 9.3134070	total: 2.7s	remaining: 2.46s
523:	learn: 9.3113907	total: 2.7s	remaining: 2.45s
524:	learn: 9.3072720	total: 2.7s	remaining: 2.44s
525:	learn: 9.3037872	total: 2.7s	remaining: 2.43s
526:	learn: 9.3018966	total: 2.78s	remaining: 2.49s
527:	learn: 9.3011751	total: 2.78s	remaining: 2.48s
528:	learn: 9.2983376	total: 2.78s	remaining: 2.48s
529:	learn: 9.2947644	total: 2.78s	remaining: 2.47s
530:	learn: 9.2890916	total: 2.78s	remaining: 2.46s
531:	learn: 9.2882015	total: 2.78s	remaining: 2.45s
532:	learn: 9.2849589	total: 2.78s	remaining: 2.44s
533:	learn: 9.2819904	total: 2.78s	remaining: 2.43s
534:	learn: 9.2776126	total: 2.78s	remaining: 2.42s
535:	learn: 9.2752247	total: 2.79s	remaining: 2.41s
536:	learn: 9.2728455	total: 2.79s	remaining: 2.4s
537:	learn: 9.2697653	total: 2.79s	remaining: 2.39s
538:	learn: 9.2688406	total: 2.79s	remaining: 2.38s
539:	learn: 9.2666242	total: 2.79s	remaining: 2.37s
540:	learn: 9.2614416	total: 2.79s	remaining: 2.37s
541:	learn: 9.2575328	total: 2.79s	remaining: 2.36s
542:	learn: 9.2553587	total: 2.79s	remaining: 2.35s
543:	learn: 9.2531759	total: 2.87s	remaining: 2.41s
544:	learn: 9.2518856	total: 2.87s	remaining: 2.4s
545:	learn: 9.2513328	total: 2.87s	remaining: 2.39s
546:	learn: 9.2490493	total: 2.88s	remaining: 2.38s
547:	learn: 9.2447127	total: 2.88s	remaining: 2.37s
548:	learn: 9.2425292	total: 2.88s	remaining: 2.36s

549:	learn: 9.2400263	total: 2.88s	remaining: 2.35s
550:	learn: 9.2393020	total: 2.88s	remaining: 2.35s
551:	learn: 9.2356181	total: 2.88s	remaining: 2.34s
552:	learn: 9.2329185	total: 2.88s	remaining: 2.33s
553:	learn: 9.2278299	total: 2.88s	remaining: 2.32s
554:	learn: 9.2235723	total: 2.88s	remaining: 2.31s
555:	learn: 9.2189656	total: 2.88s	remaining: 2.3s
556:	learn: 9.2153109	total: 2.88s	remaining: 2.29s
557:	learn: 9.2136440	total: 2.88s	remaining: 2.29s
558:	learn: 9.2127511	total: 2.89s	remaining: 2.28s
559:	learn: 9.2119042	total: 2.89s	remaining: 2.27s
560:	learn: 9.2078283	total: 2.96s	remaining: 2.32s
561:	learn: 9.2063645	total: 2.97s	remaining: 2.31s
562:	learn: 9.2047839	total: 2.97s	remaining: 2.3s
563:	learn: 9.2039973	total: 2.97s	remaining: 2.29s
564:	learn: 9.2018634	total: 2.97s	remaining: 2.29s
565:	learn: 9.1964744	total: 2.97s	remaining: 2.28s
566:	learn: 9.1935844	total: 2.97s	remaining: 2.27s
567:	learn: 9.1888235	total: 2.97s	remaining: 2.26s
568:	learn: 9.1855981	total: 2.97s	remaining: 2.25s
569:	learn: 9.1829593	total: 2.97s	remaining: 2.24s
570:	learn: 9.1822219	total: 2.97s	remaining: 2.23s
571:	learn: 9.1787327	total: 2.97s	remaining: 2.23s
572:	learn: 9.1780668	total: 2.97s	remaining: 2.22s
573:	learn: 9.1754532	total: 2.98s	remaining: 2.21s
574:	learn: 9.1747203	total: 2.98s	remaining: 2.2s
575:	learn: 9.1740702	total: 2.98s	remaining: 2.19s
576:	learn: 9.1703500	total: 2.98s	remaining: 2.18s
577:	learn: 9.1643192	total: 2.98s	remaining: 2.17s
578:	learn: 9.1621989	total: 3.06s	remaining: 2.22s
579:	learn: 9.1582852	total: 3.06s	remaining: 2.21s
580:	learn: 9.1575773	total: 3.06s	remaining: 2.21s
581:	learn: 9.1555506	total: 3.06s	remaining: 2.2s
582:	learn: 9.1537467	total: 3.06s	remaining: 2.19s
583:	learn: 9.1500852	total: 3.06s	remaining: 2.18s
584:	learn: 9.1418076	total: 3.06s	remaining: 2.17s
585:	learn: 9.1392961	total: 3.06s	remaining: 2.17s
586:	learn: 9.1369372	total: 3.07s	remaining: 2.16s
587:	learn: 9.1319796	total: 3.07s	remaining: 2.15s
588:	learn: 9.1265312	total: 3.07s	remaining: 2.14s
589:	learn: 9.1245872	total: 3.07s	remaining: 2.13s
590:	learn: 9.1197123	total: 3.07s	remaining: 2.12s
591:	learn: 9.1152334	total: 3.07s	remaining: 2.12s
592:	learn: 9.1106920	total: 3.07s	remaining: 2.11s
593:	learn: 9.1087478	total: 3.07s	remaining: 2.1s
594:	learn: 9.1029262	total: 3.07s	remaining: 2.09s
595:	learn: 9.0999357	total: 3.07s	remaining: 2.08s
596:	learn: 9.0947748	total: 3.15s	remaining: 2.13s
597:	learn: 9.0925256	total: 3.15s	remaining: 2.12s
598:	learn: 9.0877552	total: 3.15s	remaining: 2.11s
599:	learn: 9.0856791	total: 3.15s	remaining: 2.1s
600:	learn: 9.0844451	total: 3.15s	remaining: 2.09s
601:	learn: 9.0784528	total: 3.16s	remaining: 2.09s
602:	learn: 9.0778306	total: 3.16s	remaining: 2.08s
603:	learn: 9.0726014	total: 3.16s	remaining: 2.07s
604:	learn: 9.0699306	total: 3.16s	remaining: 2.06s
605:	learn: 9.0671368	total: 3.16s	remaining: 2.05s
606:	learn: 9.0664982	total: 3.16s	remaining: 2.04s
607:	learn: 9.0620500	total: 3.16s	remaining: 2.04s
608:	learn: 9.0600838	total: 3.16s	remaining: 2.03s
609:	learn: 9.0562470	total: 3.16s	remaining: 2.02s

610:	learn: 9.0556202	total: 3.16s	remaining: 2.01s
611:	learn: 9.0482450	total: 3.16s	remaining: 2s
612:	learn: 9.0446668	total: 3.16s	remaining: 2s
613:	learn: 9.0438117	total: 3.16s	remaining: 1.99s
614:	learn: 9.0424550	total: 3.17s	remaining: 1.98s
615:	learn: 9.0419704	total: 3.17s	remaining: 1.97s
616:	learn: 9.0407320	total: 3.24s	remaining: 2.01s
617:	learn: 9.0400536	total: 3.24s	remaining: 2s
618:	learn: 9.0393666	total: 3.25s	remaining: 2s
619:	learn: 9.0313688	total: 3.25s	remaining: 1.99s
620:	learn: 9.0290134	total: 3.25s	remaining: 1.98s
621:	learn: 9.0240509	total: 3.25s	remaining: 1.97s
622:	learn: 9.0233753	total: 3.25s	remaining: 1.97s
623:	learn: 9.0221712	total: 3.25s	remaining: 1.96s
624:	learn: 9.0174332	total: 3.25s	remaining: 1.95s
625:	learn: 9.0155523	total: 3.25s	remaining: 1.94s
626:	learn: 9.0121532	total: 3.25s	remaining: 1.94s
627:	learn: 9.0110455	total: 3.25s	remaining: 1.93s
628:	learn: 9.0098377	total: 3.25s	remaining: 1.92s
629:	learn: 9.0052911	total: 3.25s	remaining: 1.91s
630:	learn: 9.0009383	total: 3.25s	remaining: 1.9s
631:	learn: 8.9942406	total: 3.26s	remaining: 1.9s
632:	learn: 8.9886332	total: 3.26s	remaining: 1.89s
633:	learn: 8.9881692	total: 3.34s	remaining: 1.93s
634:	learn: 8.9863046	total: 3.34s	remaining: 1.92s
635:	learn: 8.9828376	total: 3.34s	remaining: 1.91s
636:	learn: 8.9815219	total: 3.34s	remaining: 1.9s
637:	learn: 8.9768622	total: 3.34s	remaining: 1.9s
638:	learn: 8.9688084	total: 3.34s	remaining: 1.89s
639:	learn: 8.9642436	total: 3.34s	remaining: 1.88s
640:	learn: 8.9604608	total: 3.34s	remaining: 1.87s
641:	learn: 8.9575361	total: 3.34s	remaining: 1.86s
642:	learn: 8.9551587	total: 3.34s	remaining: 1.86s
643:	learn: 8.9545773	total: 3.34s	remaining: 1.85s
644:	learn: 8.9498263	total: 3.34s	remaining: 1.84s
645:	learn: 8.9493536	total: 3.35s	remaining: 1.83s
646:	learn: 8.9442991	total: 3.35s	remaining: 1.82s
647:	learn: 8.9436539	total: 3.35s	remaining: 1.82s
648:	learn: 8.9409787	total: 3.35s	remaining: 1.81s
649:	learn: 8.9364490	total: 3.35s	remaining: 1.8s
650:	learn: 8.9343375	total: 3.35s	remaining: 1.79s
651:	learn: 8.9322078	total: 3.43s	remaining: 1.83s
652:	learn: 8.9270921	total: 3.43s	remaining: 1.82s
653:	learn: 8.9254370	total: 3.43s	remaining: 1.81s
654:	learn: 8.9208755	total: 3.43s	remaining: 1.81s
655:	learn: 8.9203295	total: 3.43s	remaining: 1.8s
656:	learn: 8.9179108	total: 3.43s	remaining: 1.79s
657:	learn: 8.9146690	total: 3.44s	remaining: 1.78s
658:	learn: 8.9133839	total: 3.44s	remaining: 1.78s
659:	learn: 8.9110606	total: 3.44s	remaining: 1.77s
660:	learn: 8.9079812	total: 3.44s	remaining: 1.76s
661:	learn: 8.9059150	total: 3.44s	remaining: 1.75s
662:	learn: 8.9008770	total: 3.44s	remaining: 1.75s
663:	learn: 8.8968010	total: 3.44s	remaining: 1.74s
664:	learn: 8.8920687	total: 3.44s	remaining: 1.73s
665:	learn: 8.8880701	total: 3.44s	remaining: 1.73s
666:	learn: 8.8876314	total: 3.44s	remaining: 1.72s
667:	learn: 8.8823832	total: 3.44s	remaining: 1.71s
668:	learn: 8.8795559	total: 3.44s	remaining: 1.7s
669:	learn: 8.8779054	total: 3.52s	remaining: 1.74s
670:	learn: 8.8762443	total: 3.52s	remaining: 1.73s

671:	learn: 8.8663166	total: 3.52s	remaining: 1.72s
672:	learn: 8.8608714	total: 3.53s	remaining: 1.71s
673:	learn: 8.8602417	total: 3.53s	remaining: 1.71s
674:	learn: 8.8559897	total: 3.53s	remaining: 1.7s
675:	learn: 8.8534697	total: 3.53s	remaining: 1.69s
676:	learn: 8.8498947	total: 3.53s	remaining: 1.68s
677:	learn: 8.8478220	total: 3.53s	remaining: 1.68s
678:	learn: 8.8437601	total: 3.53s	remaining: 1.67s
679:	learn: 8.8390744	total: 3.53s	remaining: 1.66s
680:	learn: 8.8371729	total: 3.53s	remaining: 1.65s
681:	learn: 8.8325073	total: 3.53s	remaining: 1.65s
682:	learn: 8.8249260	total: 3.53s	remaining: 1.64s
683:	learn: 8.8209309	total: 3.53s	remaining: 1.63s
684:	learn: 8.8186225	total: 3.53s	remaining: 1.63s
685:	learn: 8.8137311	total: 3.54s	remaining: 1.62s
686:	learn: 8.8131969	total: 3.54s	remaining: 1.61s
687:	learn: 8.8118416	total: 3.62s	remaining: 1.64s
688:	learn: 8.8113918	total: 3.62s	remaining: 1.63s
689:	learn: 8.8067381	total: 3.62s	remaining: 1.63s
690:	learn: 8.8042076	total: 3.62s	remaining: 1.62s
691:	learn: 8.8010535	total: 3.62s	remaining: 1.61s
692:	learn: 8.7969480	total: 3.62s	remaining: 1.6s
693:	learn: 8.7952522	total: 3.62s	remaining: 1.6s
694:	learn: 8.7916088	total: 3.62s	remaining: 1.59s
695:	learn: 8.7856005	total: 3.62s	remaining: 1.58s
696:	learn: 8.7809052	total: 3.62s	remaining: 1.57s
697:	learn: 8.7788805	total: 3.62s	remaining: 1.57s
698:	learn: 8.7756358	total: 3.62s	remaining: 1.56s
699:	learn: 8.7705397	total: 3.63s	remaining: 1.55s
700:	learn: 8.7688407	total: 3.63s	remaining: 1.55s
701:	learn: 8.7646889	total: 3.63s	remaining: 1.54s
702:	learn: 8.7627885	total: 3.63s	remaining: 1.53s
703:	learn: 8.7584808	total: 3.63s	remaining: 1.53s
704:	learn: 8.7549939	total: 3.71s	remaining: 1.55s
705:	learn: 8.7513378	total: 3.71s	remaining: 1.54s
706:	learn: 8.7506372	total: 3.71s	remaining: 1.54s
707:	learn: 8.7478468	total: 3.71s	remaining: 1.53s
708:	learn: 8.7456901	total: 3.71s	remaining: 1.52s
709:	learn: 8.7449614	total: 3.71s	remaining: 1.52s
710:	learn: 8.7413088	total: 3.71s	remaining: 1.51s
711:	learn: 8.7375391	total: 3.71s	remaining: 1.5s
712:	learn: 8.7301242	total: 3.71s	remaining: 1.5s
713:	learn: 8.7280567	total: 3.72s	remaining: 1.49s
714:	learn: 8.7265872	total: 3.72s	remaining: 1.48s
715:	learn: 8.7248700	total: 3.72s	remaining: 1.47s
716:	learn: 8.7206570	total: 3.72s	remaining: 1.47s
717:	learn: 8.7200599	total: 3.72s	remaining: 1.46s
718:	learn: 8.7156400	total: 3.72s	remaining: 1.45s
719:	learn: 8.7112694	total: 3.72s	remaining: 1.45s
720:	learn: 8.7073088	total: 3.72s	remaining: 1.44s
721:	learn: 8.7036459	total: 3.8s	remaining: 1.46s
722:	learn: 8.7018808	total: 3.8s	remaining: 1.46s
723:	learn: 8.7003933	total: 3.81s	remaining: 1.45s
724:	learn: 8.6961205	total: 3.81s	remaining: 1.44s
725:	learn: 8.6935958	total: 3.81s	remaining: 1.44s
726:	learn: 8.6901491	total: 3.81s	remaining: 1.43s
727:	learn: 8.6896320	total: 3.81s	remaining: 1.42s
728:	learn: 8.6891243	total: 3.81s	remaining: 1.42s
729:	learn: 8.6823029	total: 3.81s	remaining: 1.41s
730:	learn: 8.6809067	total: 3.81s	remaining: 1.4s
731:	learn: 8.6795838	total: 3.81s	remaining: 1.4s

732:	learn: 8.6749719	total: 3.81s	remaining: 1.39s
733:	learn: 8.6717709	total: 3.81s	remaining: 1.38s
734:	learn: 8.6679259	total: 3.81s	remaining: 1.37s
735:	learn: 8.6665038	total: 3.81s	remaining: 1.37s
736:	learn: 8.6645094	total: 3.81s	remaining: 1.36s
737:	learn: 8.6586547	total: 3.81s	remaining: 1.35s
738:	learn: 8.6553150	total: 3.82s	remaining: 1.35s
739:	learn: 8.6498228	total: 3.82s	remaining: 1.34s
740:	learn: 8.6478497	total: 3.9s	remaining: 1.36s
741:	learn: 8.6463489	total: 3.9s	remaining: 1.35s
742:	learn: 8.6438201	total: 3.9s	remaining: 1.35s
743:	learn: 8.6404007	total: 3.9s	remaining: 1.34s
744:	learn: 8.6389564	total: 3.9s	remaining: 1.33s
745:	learn: 8.6372155	total: 3.9s	remaining: 1.33s
746:	learn: 8.6367229	total: 3.9s	remaining: 1.32s
747:	learn: 8.6325203	total: 3.9s	remaining: 1.31s
748:	learn: 8.6320372	total: 3.9s	remaining: 1.31s
749:	learn: 8.6308625	total: 3.9s	remaining: 1.3s
750:	learn: 8.6293872	total: 3.9s	remaining: 1.29s
751:	learn: 8.6249845	total: 3.9s	remaining: 1.29s
752:	learn: 8.6226224	total: 3.9s	remaining: 1.28s
753:	learn: 8.6208608	total: 3.91s	remaining: 1.27s
754:	learn: 8.6153599	total: 3.91s	remaining: 1.27s
755:	learn: 8.6121880	total: 3.91s	remaining: 1.26s
756:	learn: 8.6108646	total: 3.91s	remaining: 1.25s
757:	learn: 8.6081614	total: 3.99s	remaining: 1.27s
758:	learn: 8.6037413	total: 3.99s	remaining: 1.27s
759:	learn: 8.5994847	total: 3.99s	remaining: 1.26s
760:	learn: 8.5960698	total: 3.99s	remaining: 1.25s
761:	learn: 8.5881312	total: 3.99s	remaining: 1.25s
762:	learn: 8.5820566	total: 4s	remaining: 1.24s
763:	learn: 8.5803701	total: 4s	remaining: 1.23s
764:	learn: 8.5782218	total: 4s	remaining: 1.23s
765:	learn: 8.5766440	total: 4s	remaining: 1.22s
766:	learn: 8.5762437	total: 4s	remaining: 1.21s
767:	learn: 8.5711628	total: 4s	remaining: 1.21s
768:	learn: 8.5706940	total: 4s	remaining: 1.2s
769:	learn: 8.5690043	total: 4s	remaining: 1.2s
770:	learn: 8.5683907	total: 4s	remaining: 1.19s
771:	learn: 8.5660928	total: 4s	remaining: 1.18s
772:	learn: 8.5607927	total: 4s	remaining: 1.18s
773:	learn: 8.5573806	total: 4.01s	remaining: 1.17s
774:	learn: 8.5541804	total: 4.01s	remaining: 1.16s
775:	learn: 8.5522430	total: 4.08s	remaining: 1.18s
776:	learn: 8.5510197	total: 4.08s	remaining: 1.17s
777:	learn: 8.5478399	total: 4.08s	remaining: 1.17s
778:	learn: 8.5462588	total: 4.08s	remaining: 1.16s
779:	learn: 8.5450815	total: 4.09s	remaining: 1.15s
780:	learn: 8.5414871	total: 4.09s	remaining: 1.15s
781:	learn: 8.5404222	total: 4.09s	remaining: 1.14s
782:	learn: 8.5383637	total: 4.09s	remaining: 1.13s
783:	learn: 8.5365990	total: 4.09s	remaining: 1.13s
784:	learn: 8.5337423	total: 4.09s	remaining: 1.12s
785:	learn: 8.5327024	total: 4.09s	remaining: 1.11s
786:	learn: 8.5312804	total: 4.09s	remaining: 1.11s
787:	learn: 8.5282460	total: 4.09s	remaining: 1.1s
788:	learn: 8.5267854	total: 4.09s	remaining: 1.09s
789:	learn: 8.5217557	total: 4.09s	remaining: 1.09s
790:	learn: 8.5204650	total: 4.09s	remaining: 1.08s
791:	learn: 8.5188488	total: 4.09s	remaining: 1.07s
792:	learn: 8.5147461	total: 4.18s	remaining: 1.09s

793:	learn: 8.5141689	total: 4.18s	remaining: 1.08s
794:	learn: 8.5125670	total: 4.18s	remaining: 1.08s
795:	learn: 8.5086360	total: 4.18s	remaining: 1.07s
796:	learn: 8.5069165	total: 4.18s	remaining: 1.06s
797:	learn: 8.5063953	total: 4.18s	remaining: 1.06s
798:	learn: 8.5048731	total: 4.18s	remaining: 1.05s
799:	learn: 8.5031852	total: 4.18s	remaining: 1.04s
800:	learn: 8.4981374	total: 4.18s	remaining: 1.04s
801:	learn: 8.4963356	total: 4.18s	remaining: 1.03s
802:	learn: 8.4913091	total: 4.18s	remaining: 1.03s
803:	learn: 8.4862184	total: 4.18s	remaining: 1.02s
804:	learn: 8.4827972	total: 4.18s	remaining: 1.01s
805:	learn: 8.4790271	total: 4.19s	remaining: 1.01s
806:	learn: 8.4759276	total: 4.19s	remaining: 1s
807:	learn: 8.4746109	total: 4.19s	remaining: 995ms
808:	learn: 8.4731959	total: 4.19s	remaining: 989ms
809:	learn: 8.4718182	total: 4.19s	remaining: 983ms
810:	learn: 8.4684386	total: 4.27s	remaining: 995ms
811:	learn: 8.4660222	total: 4.27s	remaining: 989ms
812:	learn: 8.4602462	total: 4.27s	remaining: 982ms
813:	learn: 8.4552977	total: 4.27s	remaining: 976ms
814:	learn: 8.4511990	total: 4.27s	remaining: 970ms
815:	learn: 8.4497773	total: 4.27s	remaining: 964ms
816:	learn: 8.4454041	total: 4.27s	remaining: 957ms
817:	learn: 8.4412348	total: 4.27s	remaining: 951ms
818:	learn: 8.4397063	total: 4.28s	remaining: 945ms
819:	learn: 8.4354604	total: 4.28s	remaining: 939ms
820:	learn: 8.4317124	total: 4.28s	remaining: 933ms
821:	learn: 8.4288942	total: 4.28s	remaining: 927ms
822:	learn: 8.4261522	total: 4.28s	remaining: 920ms
823:	learn: 8.4248854	total: 4.28s	remaining: 914ms
824:	learn: 8.4233806	total: 4.28s	remaining: 908ms
825:	learn: 8.4189593	total: 4.28s	remaining: 902ms
826:	learn: 8.4151965	total: 4.28s	remaining: 896ms
827:	learn: 8.4124884	total: 4.28s	remaining: 890ms
828:	learn: 8.4101097	total: 4.36s	remaining: 900ms
829:	learn: 8.4071907	total: 4.36s	remaining: 894ms
830:	learn: 8.4067285	total: 4.36s	remaining: 887ms
831:	learn: 8.4061589	total: 4.36s	remaining: 881ms
832:	learn: 8.3999407	total: 4.36s	remaining: 875ms
833:	learn: 8.3981300	total: 4.37s	remaining: 869ms
834:	learn: 8.3942300	total: 4.37s	remaining: 863ms
835:	learn: 8.3921281	total: 4.37s	remaining: 857ms
836:	learn: 8.3916136	total: 4.37s	remaining: 851ms
837:	learn: 8.3901593	total: 4.37s	remaining: 844ms
838:	learn: 8.3859778	total: 4.37s	remaining: 838ms
839:	learn: 8.3825746	total: 4.37s	remaining: 832ms
840:	learn: 8.3820792	total: 4.37s	remaining: 826ms
841:	learn: 8.3780265	total: 4.37s	remaining: 820ms
842:	learn: 8.3716196	total: 4.37s	remaining: 814ms
843:	learn: 8.3688326	total: 4.37s	remaining: 808ms
844:	learn: 8.3663163	total: 4.37s	remaining: 802ms
845:	learn: 8.3647818	total: 4.37s	remaining: 796ms
846:	learn: 8.3564533	total: 4.37s	remaining: 790ms
847:	learn: 8.3534613	total: 4.45s	remaining: 798ms
848:	learn: 8.3495754	total: 4.46s	remaining: 792ms
849:	learn: 8.3472932	total: 4.46s	remaining: 786ms
850:	learn: 8.3453721	total: 4.46s	remaining: 780ms
851:	learn: 8.3441375	total: 4.46s	remaining: 774ms
852:	learn: 8.3435671	total: 4.46s	remaining: 768ms
853:	learn: 8.3425171	total: 4.46s	remaining: 762ms

854:	learn: 8.3421368	total: 4.46s	remaining: 756ms
855:	learn: 8.3390985	total: 4.46s	remaining: 750ms
856:	learn: 8.3349884	total: 4.46s	remaining: 744ms
857:	learn: 8.3280884	total: 4.46s	remaining: 739ms
858:	learn: 8.3272024	total: 4.46s	remaining: 733ms
859:	learn: 8.3221369	total: 4.46s	remaining: 727ms
860:	learn: 8.3216512	total: 4.47s	remaining: 721ms
861:	learn: 8.3181232	total: 4.47s	remaining: 715ms
862:	learn: 8.3125168	total: 4.47s	remaining: 709ms
863:	learn: 8.3095212	total: 4.47s	remaining: 704ms
864:	learn: 8.3054941	total: 4.55s	remaining: 710ms
865:	learn: 8.3050547	total: 4.55s	remaining: 704ms
866:	learn: 8.3037670	total: 4.55s	remaining: 698ms
867:	learn: 8.2984108	total: 4.55s	remaining: 692ms
868:	learn: 8.2980753	total: 4.55s	remaining: 686ms
869:	learn: 8.2924062	total: 4.55s	remaining: 680ms
870:	learn: 8.2877387	total: 4.55s	remaining: 674ms
871:	learn: 8.2849299	total: 4.55s	remaining: 668ms
872:	learn: 8.2816092	total: 4.55s	remaining: 662ms
873:	learn: 8.2803856	total: 4.55s	remaining: 656ms
874:	learn: 8.2777080	total: 4.55s	remaining: 651ms
875:	learn: 8.2766275	total: 4.55s	remaining: 645ms
876:	learn: 8.2729041	total: 4.55s	remaining: 639ms
877:	learn: 8.2697963	total: 4.56s	remaining: 633ms
878:	learn: 8.2683440	total: 4.56s	remaining: 627ms
879:	learn: 8.2654773	total: 4.56s	remaining: 622ms
880:	learn: 8.2636574	total: 4.56s	remaining: 616ms
881:	learn: 8.2603816	total: 4.56s	remaining: 610ms
882:	learn: 8.2594987	total: 4.56s	remaining: 604ms
883:	learn: 8.2562842	total: 4.64s	remaining: 609ms
884:	learn: 8.2544321	total: 4.64s	remaining: 603ms
885:	learn: 8.2532700	total: 4.64s	remaining: 597ms
886:	learn: 8.2523299	total: 4.64s	remaining: 592ms
887:	learn: 8.2502838	total: 4.64s	remaining: 586ms
888:	learn: 8.2453863	total: 4.64s	remaining: 580ms
889:	learn: 8.2407382	total: 4.65s	remaining: 574ms
890:	learn: 8.2375410	total: 4.65s	remaining: 568ms
891:	learn: 8.2354400	total: 4.65s	remaining: 563ms
892:	learn: 8.2336248	total: 4.65s	remaining: 557ms
893:	learn: 8.2325224	total: 4.65s	remaining: 551ms
894:	learn: 8.2320874	total: 4.65s	remaining: 546ms
895:	learn: 8.2293605	total: 4.65s	remaining: 540ms
896:	learn: 8.2288771	total: 4.65s	remaining: 534ms
897:	learn: 8.2260696	total: 4.65s	remaining: 528ms
898:	learn: 8.2234630	total: 4.65s	remaining: 523ms
899:	learn: 8.2216675	total: 4.66s	remaining: 517ms
900:	learn: 8.2187162	total: 4.66s	remaining: 512ms
901:	learn: 8.2152387	total: 4.73s	remaining: 514ms
902:	learn: 8.2141142	total: 4.73s	remaining: 508ms
903:	learn: 8.2106658	total: 4.73s	remaining: 503ms
904:	learn: 8.2098397	total: 4.73s	remaining: 497ms
905:	learn: 8.2074867	total: 4.73s	remaining: 491ms
906:	learn: 8.2058869	total: 4.74s	remaining: 486ms
907:	learn: 8.2045288	total: 4.74s	remaining: 480ms
908:	learn: 8.2013367	total: 4.74s	remaining: 474ms
909:	learn: 8.1998157	total: 4.74s	remaining: 469ms
910:	learn: 8.1950248	total: 4.74s	remaining: 463ms
911:	learn: 8.1912928	total: 4.74s	remaining: 457ms
912:	learn: 8.1901942	total: 4.74s	remaining: 452ms
913:	learn: 8.1897039	total: 4.74s	remaining: 446ms
914:	learn: 8.1874242	total: 4.74s	remaining: 440ms

915:	learn: 8.1839459	total: 4.74s	remaining: 435ms
916:	learn: 8.1792507	total: 4.74s	remaining: 429ms
917:	learn: 8.1767538	total: 4.74s	remaining: 424ms
918:	learn: 8.1739056	total: 4.75s	remaining: 419ms
919:	learn: 8.1702131	total: 4.75s	remaining: 413ms
920:	learn: 8.1664743	total: 4.82s	remaining: 414ms
921:	learn: 8.1636413	total: 4.83s	remaining: 408ms
922:	learn: 8.1629553	total: 4.83s	remaining: 403ms
923:	learn: 8.1593113	total: 4.83s	remaining: 397ms
924:	learn: 8.1561265	total: 4.83s	remaining: 391ms
925:	learn: 8.1531460	total: 4.83s	remaining: 386ms
926:	learn: 8.1462226	total: 4.83s	remaining: 380ms
927:	learn: 8.1458970	total: 4.83s	remaining: 375ms
928:	learn: 8.1418193	total: 4.83s	remaining: 369ms
929:	learn: 8.1385225	total: 4.83s	remaining: 364ms
930:	learn: 8.1353773	total: 4.83s	remaining: 358ms
931:	learn: 8.1345958	total: 4.84s	remaining: 353ms
932:	learn: 8.1295225	total: 4.84s	remaining: 347ms
933:	learn: 8.1284304	total: 4.84s	remaining: 342ms
934:	learn: 8.1234025	total: 4.84s	remaining: 336ms
935:	learn: 8.1213632	total: 4.84s	remaining: 331ms
936:	learn: 8.1174223	total: 4.84s	remaining: 325ms
937:	learn: 8.1149356	total: 4.92s	remaining: 326ms
938:	learn: 8.1111893	total: 4.92s	remaining: 320ms
939:	learn: 8.1084757	total: 4.93s	remaining: 314ms
940:	learn: 8.1072933	total: 4.93s	remaining: 309ms
941:	learn: 8.1060531	total: 4.93s	remaining: 303ms
942:	learn: 8.1010293	total: 4.93s	remaining: 298ms
943:	learn: 8.0968300	total: 4.93s	remaining: 292ms
944:	learn: 8.0940717	total: 4.93s	remaining: 287ms
945:	learn: 8.0888906	total: 4.93s	remaining: 281ms
946:	learn: 8.0842570	total: 4.93s	remaining: 276ms
947:	learn: 8.0803055	total: 4.93s	remaining: 271ms
948:	learn: 8.0788488	total: 4.93s	remaining: 265ms
949:	learn: 8.0765193	total: 4.93s	remaining: 260ms
950:	learn: 8.0721399	total: 4.93s	remaining: 254ms
951:	learn: 8.0689240	total: 4.93s	remaining: 249ms
952:	learn: 8.0653479	total: 4.94s	remaining: 243ms
953:	learn: 8.0627915	total: 4.94s	remaining: 238ms
954:	learn: 8.0610138	total: 4.94s	remaining: 233ms
955:	learn: 8.0598135	total: 4.94s	remaining: 227ms
956:	learn: 8.0560225	total: 5.01s	remaining: 225ms
957:	learn: 8.0555069	total: 5.01s	remaining: 220ms
958:	learn: 8.0509507	total: 5.01s	remaining: 214ms
959:	learn: 8.0483994	total: 5.01s	remaining: 209ms
960:	learn: 8.0470255	total: 5.02s	remaining: 204ms
961:	learn: 8.0445092	total: 5.02s	remaining: 198ms
962:	learn: 8.0402418	total: 5.02s	remaining: 193ms
963:	learn: 8.0371116	total: 5.02s	remaining: 188ms
964:	learn: 8.0331740	total: 5.02s	remaining: 182ms
965:	learn: 8.0313992	total: 5.02s	remaining: 177ms
966:	learn: 8.0291120	total: 5.02s	remaining: 171ms
967:	learn: 8.0243883	total: 5.02s	remaining: 166ms
968:	learn: 8.0238376	total: 5.03s	remaining: 161ms
969:	learn: 8.0205627	total: 5.03s	remaining: 155ms
970:	learn: 8.0193810	total: 5.03s	remaining: 150ms
971:	learn: 8.0188391	total: 5.03s	remaining: 145ms
972:	learn: 8.0163575	total: 5.03s	remaining: 140ms
973:	learn: 8.0158921	total: 5.11s	remaining: 136ms
974:	learn: 8.0122667	total: 5.11s	remaining: 131ms
975:	learn: 8.0087751	total: 5.11s	remaining: 126ms

976:	learn: 8.0084273	total: 5.11s	remaining: 120ms
977:	learn: 8.0060106	total: 5.11s	remaining: 115ms
978:	learn: 8.0043745	total: 5.11s	remaining: 110ms
979:	learn: 8.0019003	total: 5.11s	remaining: 104ms
980:	learn: 7.9976468	total: 5.11s	remaining: 99ms
981:	learn: 7.9947384	total: 5.11s	remaining: 93.7ms
982:	learn: 7.9941711	total: 5.11s	remaining: 88.4ms
983:	learn: 7.9905055	total: 5.11s	remaining: 83.2ms
984:	learn: 7.9886565	total: 5.12s	remaining: 77.9ms
985:	learn: 7.9842592	total: 5.12s	remaining: 72.6ms
986:	learn: 7.9832036	total: 5.12s	remaining: 67.4ms
987:	learn: 7.9815972	total: 5.12s	remaining: 62.2ms
988:	learn: 7.9796265	total: 5.12s	remaining: 56.9ms
989:	learn: 7.9762790	total: 5.12s	remaining: 51.7ms
990:	learn: 7.9751416	total: 5.2s	remaining: 47.2ms
991:	learn: 7.9746226	total: 5.2s	remaining: 41.9ms
992:	learn: 7.9729104	total: 5.2s	remaining: 36.7ms
993:	learn: 7.9705505	total: 5.2s	remaining: 31.4ms
994:	learn: 7.9679151	total: 5.2s	remaining: 26.1ms
995:	learn: 7.9643816	total: 5.2s	remaining: 20.9ms
996:	learn: 7.9635007	total: 5.2s	remaining: 15.7ms
997:	learn: 7.9611781	total: 5.21s	remaining: 10.4ms
998:	learn: 7.9607561	total: 5.21s	remaining: 5.21ms
999:	learn: 7.9527815	total: 5.21s	remaining: 0us
0:	learn: 20.3973469	total: 852us	remaining: 852ms
1:	learn: 20.3318124	total: 1.76ms	remaining: 881ms
2:	learn: 20.2684669	total: 2.54ms	remaining: 845ms
3:	learn: 20.2184674	total: 3.79ms	remaining: 945ms
4:	learn: 20.1565107	total: 4.52ms	remaining: 899ms
5:	learn: 20.0944163	total: 5.22ms	remaining: 866ms
6:	learn: 20.0322356	total: 5.92ms	remaining: 840ms
7:	learn: 19.9712287	total: 6.66ms	remaining: 826ms
8:	learn: 19.9082082	total: 7.78ms	remaining: 857ms
9:	learn: 19.8477275	total: 8.47ms	remaining: 838ms
10:	learn: 19.7896735	total: 9.74ms	remaining: 875ms
11:	learn: 19.7323399	total: 11.1ms	remaining: 916ms
12:	learn: 19.6757155	total: 11.8ms	remaining: 895ms
13:	learn: 19.6197762	total: 12.8ms	remaining: 898ms
14:	learn: 19.5639554	total: 18.7ms	remaining: 1.23s
15:	learn: 19.5095790	total: 19.4ms	remaining: 1.19s
16:	learn: 19.4547521	total: 67.7ms	remaining: 3.91s
17:	learn: 19.4005091	total: 68.8ms	remaining: 3.75s
18:	learn: 19.3471511	total: 69.7ms	remaining: 3.6s
19:	learn: 19.2956034	total: 70.7ms	remaining: 3.46s
20:	learn: 19.2379751	total: 71.5ms	remaining: 3.33s
21:	learn: 19.1852714	total: 72.2ms	remaining: 3.21s
22:	learn: 19.1262249	total: 72.9ms	remaining: 3.1s
23:	learn: 19.0767585	total: 73.7ms	remaining: 3s
24:	learn: 19.0265453	total: 74.4ms	remaining: 2.9s
25:	learn: 18.9787154	total: 75.1ms	remaining: 2.81s
26:	learn: 18.9314912	total: 75.8ms	remaining: 2.73s
27:	learn: 18.8825487	total: 76.5ms	remaining: 2.65s
28:	learn: 18.8348097	total: 77.2ms	remaining: 2.58s
29:	learn: 18.7885501	total: 77.9ms	remaining: 2.52s
30:	learn: 18.7421297	total: 78.6ms	remaining: 2.46s
31:	learn: 18.6968978	total: 79.4ms	remaining: 2.4s
32:	learn: 18.6529625	total: 80.1ms	remaining: 2.35s
33:	learn: 18.6094273	total: 80.8ms	remaining: 2.3s
34:	learn: 18.5657738	total: 161ms	remaining: 4.44s
35:	learn: 18.5319916	total: 162ms	remaining: 4.34s
36:	learn: 18.4897992	total: 163ms	remaining: 4.24s

37:	learn: 18.4486164	total: 164ms	remaining: 4.16s
38:	learn: 18.4079291	total: 165ms	remaining: 4.07s
39:	learn: 18.3646405	total: 166ms	remaining: 3.98s
40:	learn: 18.3237592	total: 166ms	remaining: 3.89s
41:	learn: 18.2842948	total: 167ms	remaining: 3.81s
42:	learn: 18.2446107	total: 168ms	remaining: 3.74s
43:	learn: 18.1111993	total: 169ms	remaining: 3.67s
44:	learn: 18.0729254	total: 169ms	remaining: 3.6s
45:	learn: 18.0311858	total: 170ms	remaining: 3.54s
46:	learn: 17.9935316	total: 171ms	remaining: 3.47s
47:	learn: 17.8607557	total: 172ms	remaining: 3.42s
48:	learn: 17.8226826	total: 173ms	remaining: 3.36s
49:	learn: 17.7864050	total: 174ms	remaining: 3.3s
50:	learn: 17.7512201	total: 180ms	remaining: 3.36s
51:	learn: 17.7161255	total: 181ms	remaining: 3.3s
52:	learn: 17.6723029	total: 256ms	remaining: 4.57s
53:	learn: 17.6383435	total: 258ms	remaining: 4.52s
54:	learn: 17.6038149	total: 259ms	remaining: 4.45s
55:	learn: 17.5706805	total: 260ms	remaining: 4.38s
56:	learn: 17.4481180	total: 261ms	remaining: 4.31s
57:	learn: 17.4145784	total: 262ms	remaining: 4.25s
58:	learn: 17.3823884	total: 263ms	remaining: 4.19s
59:	learn: 17.3486688	total: 264ms	remaining: 4.13s
60:	learn: 17.3173964	total: 265ms	remaining: 4.07s
61:	learn: 17.2852930	total: 265ms	remaining: 4.01s
62:	learn: 17.2548614	total: 266ms	remaining: 3.96s
63:	learn: 17.1581454	total: 267ms	remaining: 3.9s
64:	learn: 17.1230299	total: 268ms	remaining: 3.85s
65:	learn: 17.0928591	total: 268ms	remaining: 3.8s
66:	learn: 16.9845266	total: 270ms	remaining: 3.76s
67:	learn: 16.9554068	total: 276ms	remaining: 3.79s
68:	learn: 16.8697359	total: 348ms	remaining: 4.7s
69:	learn: 16.8413366	total: 349ms	remaining: 4.64s
70:	learn: 16.8082411	total: 350ms	remaining: 4.58s
71:	learn: 16.7253102	total: 351ms	remaining: 4.52s
72:	learn: 16.6970734	total: 352ms	remaining: 4.46s
73:	learn: 16.6668899	total: 352ms	remaining: 4.41s
74:	learn: 16.6334002	total: 353ms	remaining: 4.36s
75:	learn: 16.6055016	total: 354ms	remaining: 4.3s
76:	learn: 16.5785023	total: 355ms	remaining: 4.26s
77:	learn: 16.5010677	total: 356ms	remaining: 4.21s
78:	learn: 16.4740525	total: 357ms	remaining: 4.16s
79:	learn: 16.4476451	total: 358ms	remaining: 4.11s
80:	learn: 16.3745361	total: 358ms	remaining: 4.06s
81:	learn: 16.2949969	total: 359ms	remaining: 4.02s
82:	learn: 16.2709122	total: 360ms	remaining: 3.98s
83:	learn: 16.2321942	total: 361ms	remaining: 3.93s
84:	learn: 16.2051492	total: 361ms	remaining: 3.89s
85:	learn: 16.1088172	total: 362ms	remaining: 3.85s
86:	learn: 16.0742501	total: 442ms	remaining: 4.64s
87:	learn: 15.9771685	total: 443ms	remaining: 4.59s
88:	learn: 15.9541126	total: 445ms	remaining: 4.55s
89:	learn: 15.9316128	total: 446ms	remaining: 4.51s
90:	learn: 15.8654893	total: 447ms	remaining: 4.46s
91:	learn: 15.8416826	total: 447ms	remaining: 4.41s
92:	learn: 15.7709729	total: 448ms	remaining: 4.37s
93:	learn: 15.7493303	total: 449ms	remaining: 4.33s
94:	learn: 15.6820880	total: 450ms	remaining: 4.29s
95:	learn: 15.6605509	total: 451ms	remaining: 4.24s
96:	learn: 15.5884544	total: 451ms	remaining: 4.2s
97:	learn: 15.5633023	total: 452ms	remaining: 4.16s

98:	learn: 15.5426119	total: 454ms	remaining: 4.13s
99:	learn: 15.4745904	total: 455ms	remaining: 4.1s
100:	learn: 15.3987626	total: 457ms	remaining: 4.06s
101:	learn: 15.3782687	total: 458ms	remaining: 4.03s
102:	learn: 15.3113496	total: 459ms	remaining: 4s
103:	learn: 15.2795950	total: 536ms	remaining: 4.62s
104:	learn: 15.2235325	total: 537ms	remaining: 4.57s
105:	learn: 15.2020220	total: 537ms	remaining: 4.53s
106:	learn: 15.1829479	total: 538ms	remaining: 4.49s
107:	learn: 15.1270904	total: 539ms	remaining: 4.45s
108:	learn: 15.0710960	total: 540ms	remaining: 4.41s
109:	learn: 15.0526982	total: 541ms	remaining: 4.37s
110:	learn: 15.0006669	total: 542ms	remaining: 4.34s
111:	learn: 14.9804737	total: 542ms	remaining: 4.3s
112:	learn: 14.9628061	total: 543ms	remaining: 4.26s
113:	learn: 14.9088235	total: 544ms	remaining: 4.23s
114:	learn: 14.8527939	total: 545ms	remaining: 4.19s
115:	learn: 14.8352923	total: 546ms	remaining: 4.16s
116:	learn: 14.8157279	total: 547ms	remaining: 4.13s
117:	learn: 14.7532912	total: 547ms	remaining: 4.09s
118:	learn: 14.7015852	total: 548ms	remaining: 4.06s
119:	learn: 14.6393855	total: 549ms	remaining: 4.03s
120:	learn: 14.6230023	total: 629ms	remaining: 4.57s
121:	learn: 14.6052716	total: 630ms	remaining: 4.54s
122:	learn: 14.5886619	total: 631ms	remaining: 4.5s
123:	learn: 14.5727803	total: 632ms	remaining: 4.46s
124:	learn: 14.5568475	total: 635ms	remaining: 4.45s
125:	learn: 14.5393880	total: 636ms	remaining: 4.41s
126:	learn: 14.4751235	total: 637ms	remaining: 4.38s
127:	learn: 14.4599235	total: 638ms	remaining: 4.35s
128:	learn: 14.4113058	total: 639ms	remaining: 4.31s
129:	learn: 14.3625118	total: 639ms	remaining: 4.28s
130:	learn: 14.3475392	total: 640ms	remaining: 4.25s
131:	learn: 14.3303263	total: 641ms	remaining: 4.21s
132:	learn: 14.2828896	total: 641ms	remaining: 4.18s
133:	learn: 14.2487278	total: 642ms	remaining: 4.15s
134:	learn: 14.2313278	total: 643ms	remaining: 4.12s
135:	learn: 14.2027439	total: 649ms	remaining: 4.12s
136:	learn: 14.1611451	total: 649ms	remaining: 4.09s
137:	learn: 14.1465763	total: 723ms	remaining: 4.52s
138:	learn: 14.1325514	total: 724ms	remaining: 4.49s
139:	learn: 14.0982645	total: 725ms	remaining: 4.45s
140:	learn: 14.0847660	total: 726ms	remaining: 4.42s
141:	learn: 14.0339374	total: 731ms	remaining: 4.41s
142:	learn: 14.0206231	total: 731ms	remaining: 4.38s
143:	learn: 14.0069905	total: 732ms	remaining: 4.35s
144:	learn: 13.9939988	total: 733ms	remaining: 4.32s
145:	learn: 13.9776088	total: 734ms	remaining: 4.29s
146:	learn: 13.9294525	total: 735ms	remaining: 4.26s
147:	learn: 13.8953102	total: 735ms	remaining: 4.23s
148:	learn: 13.8819100	total: 736ms	remaining: 4.2s
149:	learn: 13.8662657	total: 737ms	remaining: 4.17s
150:	learn: 13.8083020	total: 737ms	remaining: 4.15s
151:	learn: 13.7643437	total: 738ms	remaining: 4.12s
152:	learn: 13.7496870	total: 741ms	remaining: 4.1s
153:	learn: 13.7366519	total: 742ms	remaining: 4.07s
154:	learn: 13.7090122	total: 813ms	remaining: 4.43s
155:	learn: 13.6975759	total: 814ms	remaining: 4.4s
156:	learn: 13.6848039	total: 815ms	remaining: 4.38s
157:	learn: 13.6689514	total: 816ms	remaining: 4.35s
158:	learn: 13.6251100	total: 818ms	remaining: 4.33s

159:	learn: 13.6086999	total: 819ms	remaining: 4.3s
160:	learn: 13.5679114	total: 821ms	remaining: 4.28s
161:	learn: 13.5575764	total: 822ms	remaining: 4.25s
162:	learn: 13.5297442	total: 824ms	remaining: 4.23s
163:	learn: 13.5008000	total: 825ms	remaining: 4.21s
164:	learn: 13.4722965	total: 826ms	remaining: 4.18s
165:	learn: 13.4556182	total: 828ms	remaining: 4.16s
166:	learn: 13.4452158	total: 828ms	remaining: 4.13s
167:	learn: 13.4217822	total: 829ms	remaining: 4.11s
168:	learn: 13.4122622	total: 830ms	remaining: 4.08s
169:	learn: 13.4021940	total: 831ms	remaining: 4.06s
170:	learn: 13.3652990	total: 832ms	remaining: 4.03s
171:	learn: 13.3277537	total: 907ms	remaining: 4.36s
172:	learn: 13.3141846	total: 908ms	remaining: 4.34s
173:	learn: 13.3045616	total: 909ms	remaining: 4.32s
174:	learn: 13.2779682	total: 910ms	remaining: 4.29s
175:	learn: 13.2633889	total: 911ms	remaining: 4.27s
176:	learn: 13.2281749	total: 912ms	remaining: 4.24s
177:	learn: 13.2189311	total: 914ms	remaining: 4.22s
178:	learn: 13.2051958	total: 915ms	remaining: 4.2s
179:	learn: 13.1957957	total: 916ms	remaining: 4.17s
180:	learn: 13.1874984	total: 917ms	remaining: 4.15s
181:	learn: 13.1617595	total: 918ms	remaining: 4.12s
182:	learn: 13.1538791	total: 918ms	remaining: 4.1s
183:	learn: 13.1458491	total: 920ms	remaining: 4.08s
184:	learn: 13.1379556	total: 921ms	remaining: 4.06s
185:	learn: 13.1301450	total: 922ms	remaining: 4.03s
186:	learn: 13.1224716	total: 922ms	remaining: 4.01s
187:	learn: 13.1148845	total: 923ms	remaining: 3.99s
188:	learn: 13.0821436	total: 924ms	remaining: 3.96s
189:	learn: 13.0439728	total: 1s	remaining: 4.26s
190:	learn: 13.0360359	total: 1s	remaining: 4.24s
191:	learn: 13.0067526	total: 1s	remaining: 4.22s
192:	learn: 12.9795700	total: 1s	remaining: 4.19s
193:	learn: 12.9516199	total: 1s	remaining: 4.17s
194:	learn: 12.9438516	total: 1s	remaining: 4.15s
195:	learn: 12.9156255	total: 1.01s	remaining: 4.13s
196:	learn: 12.8776842	total: 1.01s	remaining: 4.1s
197:	learn: 12.8711532	total: 1.01s	remaining: 4.08s
198:	learn: 12.8427301	total: 1.01s	remaining: 4.06s
199:	learn: 12.8152772	total: 1.01s	remaining: 4.04s
200:	learn: 12.7931093	total: 1.01s	remaining: 4.01s
201:	learn: 12.7841526	total: 1.01s	remaining: 3.99s
202:	learn: 12.7590307	total: 1.01s	remaining: 3.97s
203:	learn: 12.7325386	total: 1.01s	remaining: 3.95s
204:	learn: 12.7116989	total: 1.01s	remaining: 3.93s
205:	learn: 12.6901367	total: 1.01s	remaining: 3.91s
206:	learn: 12.6834126	total: 1.09s	remaining: 4.19s
207:	learn: 12.6747327	total: 1.09s	remaining: 4.17s
208:	learn: 12.6686507	total: 1.09s	remaining: 4.15s
209:	learn: 12.6558609	total: 1.1s	remaining: 4.13s
210:	learn: 12.6416393	total: 1.1s	remaining: 4.1s
211:	learn: 12.6279358	total: 1.1s	remaining: 4.08s
212:	learn: 12.6074440	total: 1.1s	remaining: 4.06s
213:	learn: 12.5984487	total: 1.1s	remaining: 4.04s
214:	learn: 12.5891325	total: 1.1s	remaining: 4.02s
215:	learn: 12.5831087	total: 1.1s	remaining: 3.99s
216:	learn: 12.5662417	total: 1.1s	remaining: 3.97s
217:	learn: 12.5504657	total: 1.1s	remaining: 3.95s
218:	learn: 12.5445100	total: 1.1s	remaining: 3.93s
219:	learn: 12.5363301	total: 1.1s	remaining: 3.91s

220:	learn: 12.5173222	total: 1.1s	remaining: 3.89s
221:	learn: 12.5009138	total: 1.1s	remaining: 3.87s
222:	learn: 12.4938865	total: 1.1s	remaining: 3.85s
223:	learn: 12.4833201	total: 1.1s	remaining: 3.83s
224:	learn: 12.4725020	total: 1.19s	remaining: 4.09s
225:	learn: 12.4657381	total: 1.19s	remaining: 4.07s
226:	learn: 12.4557148	total: 1.19s	remaining: 4.05s
227:	learn: 12.4489920	total: 1.19s	remaining: 4.03s
228:	learn: 12.4370383	total: 1.19s	remaining: 4.01s
229:	learn: 12.4175131	total: 1.19s	remaining: 3.99s
230:	learn: 12.4117242	total: 1.19s	remaining: 3.97s
231:	learn: 12.3922656	total: 1.19s	remaining: 3.95s
232:	learn: 12.3858765	total: 1.2s	remaining: 3.94s
233:	learn: 12.3663111	total: 1.2s	remaining: 3.92s
234:	learn: 12.3489967	total: 1.2s	remaining: 3.9s
235:	learn: 12.3441120	total: 1.2s	remaining: 3.88s
236:	learn: 12.3346664	total: 1.2s	remaining: 3.87s
237:	learn: 12.3300037	total: 1.2s	remaining: 3.85s
238:	learn: 12.3240890	total: 1.2s	remaining: 3.83s
239:	learn: 12.3186312	total: 1.2s	remaining: 3.81s
240:	learn: 12.3126072	total: 1.2s	remaining: 3.79s
241:	learn: 12.3080211	total: 1.28s	remaining: 4.01s
242:	learn: 12.3012253	total: 1.28s	remaining: 3.99s
243:	learn: 12.2947395	total: 1.28s	remaining: 3.98s
244:	learn: 12.2903332	total: 1.28s	remaining: 3.96s
245:	learn: 12.2820648	total: 1.28s	remaining: 3.94s
246:	learn: 12.2776451	total: 1.28s	remaining: 3.92s
247:	learn: 12.2607311	total: 1.28s	remaining: 3.9s
248:	learn: 12.2559213	total: 1.29s	remaining: 3.88s
249:	learn: 12.2356017	total: 1.29s	remaining: 3.86s
250:	learn: 12.2138998	total: 1.29s	remaining: 3.84s
251:	learn: 12.2094925	total: 1.29s	remaining: 3.83s
252:	learn: 12.2011765	total: 1.29s	remaining: 3.81s
253:	learn: 12.1861892	total: 1.29s	remaining: 3.79s
254:	learn: 12.1822539	total: 1.29s	remaining: 3.78s
255:	learn: 12.1736092	total: 1.29s	remaining: 3.76s
256:	learn: 12.1670126	total: 1.29s	remaining: 3.74s
257:	learn: 12.1556846	total: 1.29s	remaining: 3.73s
258:	learn: 12.1446981	total: 1.3s	remaining: 3.71s
259:	learn: 12.1345520	total: 1.3s	remaining: 3.69s
260:	learn: 12.1289179	total: 1.38s	remaining: 3.9s
261:	learn: 12.1076684	total: 1.38s	remaining: 3.89s
262:	learn: 12.1033410	total: 1.38s	remaining: 3.87s
263:	learn: 12.0838593	total: 1.38s	remaining: 3.86s
264:	learn: 12.0591791	total: 1.39s	remaining: 3.84s
265:	learn: 12.0468375	total: 1.39s	remaining: 3.83s
266:	learn: 12.0435989	total: 1.39s	remaining: 3.81s
267:	learn: 12.0294875	total: 1.39s	remaining: 3.8s
268:	learn: 12.0245859	total: 1.39s	remaining: 3.78s
269:	learn: 12.0101130	total: 1.39s	remaining: 3.77s
270:	learn: 11.9901429	total: 1.39s	remaining: 3.75s
271:	learn: 11.9865030	total: 1.4s	remaining: 3.73s
272:	learn: 11.9772035	total: 1.4s	remaining: 3.72s
273:	learn: 11.9674993	total: 1.47s	remaining: 3.89s
274:	learn: 11.9585927	total: 1.47s	remaining: 3.88s
275:	learn: 11.9555303	total: 1.47s	remaining: 3.86s
276:	learn: 11.9443146	total: 1.47s	remaining: 3.85s
277:	learn: 11.9208844	total: 1.48s	remaining: 3.83s
278:	learn: 11.9175838	total: 1.48s	remaining: 3.82s
279:	learn: 11.9133509	total: 1.48s	remaining: 3.8s
280:	learn: 11.9074817	total: 1.48s	remaining: 3.78s

281:	learn: 11.8844524	total: 1.48s	remaining: 3.77s
282:	learn: 11.8815408	total: 1.48s	remaining: 3.75s
283:	learn: 11.8685648	total: 1.48s	remaining: 3.73s
284:	learn: 11.8453312	total: 1.48s	remaining: 3.72s
285:	learn: 11.8359850	total: 1.48s	remaining: 3.7s
286:	learn: 11.8303775	total: 1.48s	remaining: 3.68s
287:	learn: 11.8265197	total: 1.49s	remaining: 3.68s
288:	learn: 11.8212875	total: 1.49s	remaining: 3.67s
289:	learn: 11.8155755	total: 1.49s	remaining: 3.65s
290:	learn: 11.7982246	total: 1.56s	remaining: 3.81s
291:	learn: 11.7903292	total: 1.56s	remaining: 3.79s
292:	learn: 11.7847776	total: 1.56s	remaining: 3.78s
293:	learn: 11.7793342	total: 1.56s	remaining: 3.76s
294:	learn: 11.7718570	total: 1.57s	remaining: 3.74s
295:	learn: 11.7673761	total: 1.57s	remaining: 3.73s
296:	learn: 11.7611871	total: 1.57s	remaining: 3.71s
297:	learn: 11.7573702	total: 1.57s	remaining: 3.69s
298:	learn: 11.7402930	total: 1.57s	remaining: 3.68s
299:	learn: 11.7356786	total: 1.57s	remaining: 3.67s
300:	learn: 11.7282952	total: 1.57s	remaining: 3.65s
301:	learn: 11.7211063	total: 1.57s	remaining: 3.64s
302:	learn: 11.6988865	total: 1.57s	remaining: 3.62s
303:	learn: 11.6831336	total: 1.58s	remaining: 3.61s
304:	learn: 11.6781974	total: 1.58s	remaining: 3.6s
305:	learn: 11.6616695	total: 1.58s	remaining: 3.58s
306:	learn: 11.6516175	total: 1.58s	remaining: 3.57s
307:	learn: 11.6275235	total: 1.66s	remaining: 3.72s
308:	learn: 11.6063176	total: 1.66s	remaining: 3.71s
309:	learn: 11.6038656	total: 1.66s	remaining: 3.69s
310:	learn: 11.5931267	total: 1.66s	remaining: 3.68s
311:	learn: 11.5770514	total: 1.66s	remaining: 3.66s
312:	learn: 11.5604778	total: 1.66s	remaining: 3.65s
313:	learn: 11.5580575	total: 1.66s	remaining: 3.63s
314:	learn: 11.5527450	total: 1.66s	remaining: 3.61s
315:	learn: 11.5401159	total: 1.66s	remaining: 3.6s
316:	learn: 11.5356890	total: 1.66s	remaining: 3.58s
317:	learn: 11.5265183	total: 1.66s	remaining: 3.57s
318:	learn: 11.5222386	total: 1.66s	remaining: 3.55s
319:	learn: 11.5023335	total: 1.67s	remaining: 3.54s
320:	learn: 11.4988961	total: 1.67s	remaining: 3.52s
321:	learn: 11.4794472	total: 1.67s	remaining: 3.51s
322:	learn: 11.4727854	total: 1.67s	remaining: 3.5s
323:	learn: 11.4702294	total: 1.67s	remaining: 3.48s
324:	learn: 11.4636687	total: 1.67s	remaining: 3.47s
325:	learn: 11.4614707	total: 1.75s	remaining: 3.62s
326:	learn: 11.4593058	total: 1.75s	remaining: 3.6s
327:	learn: 11.4568852	total: 1.75s	remaining: 3.59s
328:	learn: 11.4382180	total: 1.75s	remaining: 3.57s
329:	learn: 11.4360903	total: 1.75s	remaining: 3.56s
330:	learn: 11.4337200	total: 1.75s	remaining: 3.54s
331:	learn: 11.4229177	total: 1.75s	remaining: 3.53s
332:	learn: 11.4206715	total: 1.75s	remaining: 3.52s
333:	learn: 11.4141606	total: 1.76s	remaining: 3.5s
334:	learn: 11.3994286	total: 1.76s	remaining: 3.49s
335:	learn: 11.3969721	total: 1.76s	remaining: 3.47s
336:	learn: 11.3794676	total: 1.76s	remaining: 3.46s
337:	learn: 11.3688472	total: 1.76s	remaining: 3.45s
338:	learn: 11.3585557	total: 1.76s	remaining: 3.43s
339:	learn: 11.3535073	total: 1.76s	remaining: 3.42s
340:	learn: 11.3400606	total: 1.76s	remaining: 3.4s
341:	learn: 11.3294636	total: 1.76s	remaining: 3.39s

342:	learn: 11.3191089	total: 1.77s	remaining: 3.39s
343:	learn: 11.3101482	total: 1.84s	remaining: 3.51s
344:	learn: 11.3067872	total: 1.84s	remaining: 3.5s
345:	learn: 11.3049723	total: 1.84s	remaining: 3.49s
346:	learn: 11.3030541	total: 1.84s	remaining: 3.47s
347:	learn: 11.2857988	total: 1.85s	remaining: 3.46s
348:	learn: 11.2739301	total: 1.85s	remaining: 3.44s
349:	learn: 11.2583530	total: 1.85s	remaining: 3.43s
350:	learn: 11.2564955	total: 1.85s	remaining: 3.42s
351:	learn: 11.2528335	total: 1.85s	remaining: 3.4s
352:	learn: 11.2510576	total: 1.85s	remaining: 3.39s
353:	learn: 11.2387012	total: 1.85s	remaining: 3.38s
354:	learn: 11.2224772	total: 1.85s	remaining: 3.36s
355:	learn: 11.2190983	total: 1.85s	remaining: 3.35s
356:	learn: 11.2049575	total: 1.85s	remaining: 3.34s
357:	learn: 11.2016897	total: 1.85s	remaining: 3.32s
358:	learn: 11.1921755	total: 1.85s	remaining: 3.31s
359:	learn: 11.1828432	total: 1.85s	remaining: 3.3s
360:	learn: 11.1811062	total: 1.85s	remaining: 3.28s
361:	learn: 11.1710012	total: 1.94s	remaining: 3.41s
362:	learn: 11.1609936	total: 1.94s	remaining: 3.4s
363:	learn: 11.1548606	total: 1.94s	remaining: 3.39s
364:	learn: 11.1420377	total: 1.94s	remaining: 3.37s
365:	learn: 11.1378769	total: 1.94s	remaining: 3.36s
366:	learn: 11.1265885	total: 1.94s	remaining: 3.35s
367:	learn: 11.1245535	total: 1.94s	remaining: 3.33s
368:	learn: 11.1230638	total: 1.94s	remaining: 3.32s
369:	learn: 11.1031116	total: 1.94s	remaining: 3.31s
370:	learn: 11.1011388	total: 1.94s	remaining: 3.29s
371:	learn: 11.0918531	total: 1.94s	remaining: 3.28s
372:	learn: 11.0809323	total: 1.95s	remaining: 3.27s
373:	learn: 11.0703611	total: 1.95s	remaining: 3.26s
374:	learn: 11.0687350	total: 1.95s	remaining: 3.24s
375:	learn: 11.0579519	total: 1.95s	remaining: 3.23s
376:	learn: 11.0457984	total: 1.95s	remaining: 3.22s
377:	learn: 11.0332366	total: 1.95s	remaining: 3.21s
378:	learn: 11.0244829	total: 2.03s	remaining: 3.33s
379:	learn: 11.0229255	total: 2.03s	remaining: 3.31s
380:	learn: 11.0126179	total: 2.03s	remaining: 3.3s
381:	learn: 11.0053516	total: 2.03s	remaining: 3.29s
382:	learn: 10.9919348	total: 2.03s	remaining: 3.28s
383:	learn: 10.9809002	total: 2.04s	remaining: 3.26s
384:	learn: 10.9728584	total: 2.04s	remaining: 3.25s
385:	learn: 10.9639876	total: 2.04s	remaining: 3.24s
386:	learn: 10.9535302	total: 2.04s	remaining: 3.23s
387:	learn: 10.9417811	total: 2.04s	remaining: 3.22s
388:	learn: 10.9258749	total: 2.04s	remaining: 3.2s
389:	learn: 10.9240040	total: 2.04s	remaining: 3.19s
390:	learn: 10.9175078	total: 2.04s	remaining: 3.18s
391:	learn: 10.9062237	total: 2.04s	remaining: 3.17s
392:	learn: 10.8965062	total: 2.04s	remaining: 3.15s
393:	learn: 10.8886947	total: 2.04s	remaining: 3.14s
394:	learn: 10.8782784	total: 2.04s	remaining: 3.13s
395:	learn: 10.8700374	total: 2.04s	remaining: 3.12s
396:	learn: 10.8685286	total: 2.12s	remaining: 3.23s
397:	learn: 10.8582025	total: 2.12s	remaining: 3.21s
398:	learn: 10.8502725	total: 2.13s	remaining: 3.2s
399:	learn: 10.8345675	total: 2.13s	remaining: 3.19s
400:	learn: 10.8246409	total: 2.13s	remaining: 3.18s
401:	learn: 10.8185161	total: 2.13s	remaining: 3.17s
402:	learn: 10.8103879	total: 2.13s	remaining: 3.15s

403:	learn: 10.8004623	total: 2.13s	remaining: 3.14s
404:	learn: 10.7925785	total: 2.13s	remaining: 3.13s
405:	learn: 10.7835759	total: 2.13s	remaining: 3.12s
406:	learn: 10.7820747	total: 2.13s	remaining: 3.11s
407:	learn: 10.7738172	total: 2.13s	remaining: 3.1s
408:	learn: 10.7720207	total: 2.13s	remaining: 3.08s
409:	learn: 10.7648082	total: 2.13s	remaining: 3.07s
410:	learn: 10.7566235	total: 2.13s	remaining: 3.06s
411:	learn: 10.7446760	total: 2.14s	remaining: 3.05s
412:	learn: 10.7359202	total: 2.14s	remaining: 3.04s
413:	learn: 10.7293368	total: 2.14s	remaining: 3.03s
414:	learn: 10.7278847	total: 2.14s	remaining: 3.02s
415:	learn: 10.7164730	total: 2.14s	remaining: 3s
416:	learn: 10.7076163	total: 2.14s	remaining: 2.99s
417:	learn: 10.7035024	total: 2.14s	remaining: 2.98s
418:	learn: 10.6957633	total: 2.14s	remaining: 2.97s
419:	learn: 10.6881366	total: 2.22s	remaining: 3.06s
420:	learn: 10.6807592	total: 2.22s	remaining: 3.05s
421:	learn: 10.6742868	total: 2.22s	remaining: 3.04s
422:	learn: 10.6670461	total: 2.22s	remaining: 3.03s
423:	learn: 10.6594894	total: 2.22s	remaining: 3.02s
424:	learn: 10.6540709	total: 2.22s	remaining: 3s
425:	learn: 10.6465577	total: 2.22s	remaining: 2.99s
426:	learn: 10.6420144	total: 2.22s	remaining: 2.98s
427:	learn: 10.6349746	total: 2.22s	remaining: 2.97s
428:	learn: 10.6314276	total: 2.22s	remaining: 2.96s
429:	learn: 10.6236253	total: 2.22s	remaining: 2.95s
430:	learn: 10.6167423	total: 2.22s	remaining: 2.94s
431:	learn: 10.6135873	total: 2.23s	remaining: 2.93s
432:	learn: 10.6121644	total: 2.23s	remaining: 2.92s
433:	learn: 10.6080499	total: 2.23s	remaining: 2.9s
434:	learn: 10.6021857	total: 2.23s	remaining: 2.89s
435:	learn: 10.6007882	total: 2.23s	remaining: 2.88s
436:	learn: 10.5956170	total: 2.23s	remaining: 2.88s
437:	learn: 10.5881075	total: 2.23s	remaining: 2.87s
438:	learn: 10.5831942	total: 2.31s	remaining: 2.95s
439:	learn: 10.5743854	total: 2.31s	remaining: 2.94s
440:	learn: 10.5688652	total: 2.31s	remaining: 2.93s
441:	learn: 10.5621513	total: 2.31s	remaining: 2.92s
442:	learn: 10.5538218	total: 2.31s	remaining: 2.91s
443:	learn: 10.5463715	total: 2.31s	remaining: 2.9s
444:	learn: 10.5448304	total: 2.31s	remaining: 2.88s
445:	learn: 10.5434793	total: 2.31s	remaining: 2.88s
446:	learn: 10.5421483	total: 2.31s	remaining: 2.86s
447:	learn: 10.5380307	total: 2.31s	remaining: 2.85s
448:	learn: 10.5339364	total: 2.32s	remaining: 2.84s
449:	learn: 10.5258894	total: 2.32s	remaining: 2.83s
450:	learn: 10.5157210	total: 2.32s	remaining: 2.82s
451:	learn: 10.5093992	total: 2.32s	remaining: 2.81s
452:	learn: 10.5025526	total: 2.32s	remaining: 2.8s
453:	learn: 10.4940384	total: 2.32s	remaining: 2.79s
454:	learn: 10.4880003	total: 2.32s	remaining: 2.78s
455:	learn: 10.4865929	total: 2.4s	remaining: 2.87s
456:	learn: 10.4758308	total: 2.4s	remaining: 2.86s
457:	learn: 10.4697802	total: 2.4s	remaining: 2.85s
458:	learn: 10.4591301	total: 2.41s	remaining: 2.84s
459:	learn: 10.4526738	total: 2.41s	remaining: 2.83s
460:	learn: 10.4459860	total: 2.41s	remaining: 2.82s
461:	learn: 10.4446827	total: 2.41s	remaining: 2.81s
462:	learn: 10.4387727	total: 2.41s	remaining: 2.79s
463:	learn: 10.4353517	total: 2.41s	remaining: 2.79s

464:	learn: 10.4258975	total: 2.41s	remaining: 2.77s
465:	learn: 10.4186182	total: 2.41s	remaining: 2.77s
466:	learn: 10.4173378	total: 2.41s	remaining: 2.75s
467:	learn: 10.4095198	total: 2.42s	remaining: 2.75s
468:	learn: 10.4071221	total: 2.42s	remaining: 2.73s
469:	learn: 10.4056094	total: 2.42s	remaining: 2.73s
470:	learn: 10.3997799	total: 2.42s	remaining: 2.72s
471:	learn: 10.3950716	total: 2.42s	remaining: 2.71s
472:	learn: 10.3848157	total: 2.5s	remaining: 2.78s
473:	learn: 10.3821045	total: 2.5s	remaining: 2.77s
474:	learn: 10.3782602	total: 2.5s	remaining: 2.76s
475:	learn: 10.3698869	total: 2.5s	remaining: 2.75s
476:	learn: 10.3620386	total: 2.5s	remaining: 2.74s
477:	learn: 10.3580537	total: 2.5s	remaining: 2.73s
478:	learn: 10.3504504	total: 2.5s	remaining: 2.72s
479:	learn: 10.3405003	total: 2.5s	remaining: 2.71s
480:	learn: 10.3359624	total: 2.5s	remaining: 2.7s
481:	learn: 10.3270187	total: 2.5s	remaining: 2.69s
482:	learn: 10.3183561	total: 2.5s	remaining: 2.68s
483:	learn: 10.3129232	total: 2.5s	remaining: 2.67s
484:	learn: 10.3056725	total: 2.5s	remaining: 2.66s
485:	learn: 10.3026228	total: 2.51s	remaining: 2.65s
486:	learn: 10.2948815	total: 2.51s	remaining: 2.64s
487:	learn: 10.2918723	total: 2.51s	remaining: 2.63s
488:	learn: 10.2872324	total: 2.51s	remaining: 2.62s
489:	learn: 10.2793424	total: 2.51s	remaining: 2.62s
490:	learn: 10.2756524	total: 2.52s	remaining: 2.61s
491:	learn: 10.2660718	total: 2.59s	remaining: 2.67s
492:	learn: 10.2607915	total: 2.59s	remaining: 2.66s
493:	learn: 10.2571123	total: 2.59s	remaining: 2.65s
494:	learn: 10.2557515	total: 2.59s	remaining: 2.64s
495:	learn: 10.2471336	total: 2.59s	remaining: 2.63s
496:	learn: 10.2420365	total: 2.59s	remaining: 2.63s
497:	learn: 10.2368611	total: 2.6s	remaining: 2.62s
498:	learn: 10.2292719	total: 2.6s	remaining: 2.61s
499:	learn: 10.2251242	total: 2.6s	remaining: 2.6s
500:	learn: 10.2196978	total: 2.6s	remaining: 2.59s
501:	learn: 10.2099825	total: 2.6s	remaining: 2.58s
502:	learn: 10.2087580	total: 2.6s	remaining: 2.57s
503:	learn: 10.2018780	total: 2.6s	remaining: 2.56s
504:	learn: 10.2006698	total: 2.6s	remaining: 2.55s
505:	learn: 10.1970802	total: 2.68s	remaining: 2.62s
506:	learn: 10.1939845	total: 2.68s	remaining: 2.61s
507:	learn: 10.1888181	total: 2.69s	remaining: 2.6s
508:	learn: 10.1837793	total: 2.69s	remaining: 2.59s
509:	learn: 10.1772394	total: 2.69s	remaining: 2.58s
510:	learn: 10.1737958	total: 2.69s	remaining: 2.57s
511:	learn: 10.1683461	total: 2.69s	remaining: 2.56s
512:	learn: 10.1629772	total: 2.69s	remaining: 2.56s
513:	learn: 10.1596878	total: 2.69s	remaining: 2.55s
514:	learn: 10.1518664	total: 2.69s	remaining: 2.54s
515:	learn: 10.1485108	total: 2.69s	remaining: 2.53s
516:	learn: 10.1467182	total: 2.69s	remaining: 2.52s
517:	learn: 10.1405575	total: 2.7s	remaining: 2.51s
518:	learn: 10.1357992	total: 2.7s	remaining: 2.5s
519:	learn: 10.1317655	total: 2.78s	remaining: 2.56s
520:	learn: 10.1281180	total: 2.78s	remaining: 2.56s
521:	learn: 10.1192183	total: 2.78s	remaining: 2.55s
522:	learn: 10.1143234	total: 2.78s	remaining: 2.54s
523:	learn: 10.1131245	total: 2.78s	remaining: 2.53s
524:	learn: 10.1119437	total: 2.78s	remaining: 2.52s

525:	learn: 10.1012662	total: 2.78s	remaining: 2.51s
526:	learn: 10.0957568	total: 2.78s	remaining: 2.5s
527:	learn: 10.0910685	total: 2.79s	remaining: 2.49s
528:	learn: 10.0870405	total: 2.79s	remaining: 2.48s
529:	learn: 10.0823241	total: 2.79s	remaining: 2.47s
530:	learn: 10.0786162	total: 2.79s	remaining: 2.46s
531:	learn: 10.0744684	total: 2.79s	remaining: 2.45s
532:	learn: 10.0705338	total: 2.79s	remaining: 2.44s
533:	learn: 10.0658186	total: 2.79s	remaining: 2.44s
534:	learn: 10.0624218	total: 2.79s	remaining: 2.43s
535:	learn: 10.0612458	total: 2.79s	remaining: 2.42s
536:	learn: 10.0567470	total: 2.79s	remaining: 2.41s
537:	learn: 10.0509195	total: 2.87s	remaining: 2.47s
538:	learn: 10.0482891	total: 2.87s	remaining: 2.46s
539:	learn: 10.0471280	total: 2.87s	remaining: 2.45s
540:	learn: 10.0416585	total: 2.87s	remaining: 2.44s
541:	learn: 10.0383756	total: 2.88s	remaining: 2.43s
542:	learn: 10.0351520	total: 2.88s	remaining: 2.42s
543:	learn: 10.0306113	total: 2.88s	remaining: 2.41s
544:	learn: 10.0294706	total: 2.88s	remaining: 2.4s
545:	learn: 10.0283470	total: 2.88s	remaining: 2.39s
546:	learn: 10.0234654	total: 2.88s	remaining: 2.38s
547:	learn: 10.0169721	total: 2.88s	remaining: 2.37s
548:	learn: 10.0134403	total: 2.88s	remaining: 2.37s
549:	learn: 10.0062247	total: 2.88s	remaining: 2.36s
550:	learn: 10.0042578	total: 2.88s	remaining: 2.35s
551:	learn: 10.0009225	total: 2.88s	remaining: 2.34s
552:	learn: 9.9993460	total: 2.88s	remaining: 2.33s
553:	learn: 9.9956358	total: 2.88s	remaining: 2.32s
554:	learn: 9.9922743	total: 2.88s	remaining: 2.31s
555:	learn: 9.9883788	total: 2.96s	remaining: 2.37s
556:	learn: 9.9861540	total: 2.97s	remaining: 2.36s
557:	learn: 9.9829351	total: 2.97s	remaining: 2.35s
558:	learn: 9.9800019	total: 2.97s	remaining: 2.34s
559:	learn: 9.9756873	total: 2.97s	remaining: 2.33s
560:	learn: 9.9686287	total: 2.97s	remaining: 2.32s
561:	learn: 9.9656067	total: 2.97s	remaining: 2.32s
562:	learn: 9.9618733	total: 2.97s	remaining: 2.31s
563:	learn: 9.9573146	total: 2.98s	remaining: 2.3s
564:	learn: 9.9532112	total: 2.98s	remaining: 2.29s
565:	learn: 9.9477752	total: 2.98s	remaining: 2.28s
566:	learn: 9.9434225	total: 2.98s	remaining: 2.27s
567:	learn: 9.9408833	total: 2.98s	remaining: 2.27s
568:	learn: 9.9379483	total: 2.98s	remaining: 2.26s
569:	learn: 9.9313238	total: 2.98s	remaining: 2.25s
570:	learn: 9.9251804	total: 2.98s	remaining: 2.24s
571:	learn: 9.9195840	total: 2.98s	remaining: 2.23s
572:	learn: 9.9126909	total: 3.06s	remaining: 2.28s
573:	learn: 9.9114760	total: 3.06s	remaining: 2.27s
574:	learn: 9.9073425	total: 3.06s	remaining: 2.26s
575:	learn: 9.9040924	total: 3.06s	remaining: 2.25s
576:	learn: 9.9002252	total: 3.06s	remaining: 2.24s
577:	learn: 9.8927505	total: 3.06s	remaining: 2.23s
578:	learn: 9.8904322	total: 3.06s	remaining: 2.23s
579:	learn: 9.8881485	total: 3.06s	remaining: 2.22s
580:	learn: 9.8835290	total: 3.06s	remaining: 2.21s
581:	learn: 9.8803671	total: 3.06s	remaining: 2.2s
582:	learn: 9.8747708	total: 3.07s	remaining: 2.19s
583:	learn: 9.8726488	total: 3.07s	remaining: 2.19s
584:	learn: 9.8661742	total: 3.07s	remaining: 2.18s
585:	learn: 9.8621558	total: 3.07s	remaining: 2.17s

586:	learn: 9.8578575	total: 3.07s	remaining: 2.16s
587:	learn: 9.8545192	total: 3.07s	remaining: 2.15s
588:	learn: 9.8508335	total: 3.07s	remaining: 2.14s
589:	learn: 9.8486479	total: 3.07s	remaining: 2.14s
590:	learn: 9.8466095	total: 3.07s	remaining: 2.13s
591:	learn: 9.8434105	total: 3.15s	remaining: 2.17s
592:	learn: 9.8388076	total: 3.15s	remaining: 2.16s
593:	learn: 9.8336327	total: 3.15s	remaining: 2.15s
594:	learn: 9.8287299	total: 3.15s	remaining: 2.14s
595:	learn: 9.8265127	total: 3.15s	remaining: 2.13s
596:	learn: 9.8226352	total: 3.15s	remaining: 2.13s
597:	learn: 9.8179798	total: 3.15s	remaining: 2.12s
598:	learn: 9.8150663	total: 3.15s	remaining: 2.11s
599:	learn: 9.8120261	total: 3.15s	remaining: 2.1s
600:	learn: 9.8096447	total: 3.15s	remaining: 2.09s
601:	learn: 9.8086063	total: 3.15s	remaining: 2.09s
602:	learn: 9.8048771	total: 3.16s	remaining: 2.08s
603:	learn: 9.8019395	total: 3.16s	remaining: 2.07s
604:	learn: 9.7980821	total: 3.16s	remaining: 2.06s
605:	learn: 9.7943583	total: 3.17s	remaining: 2.06s
606:	learn: 9.7915835	total: 3.17s	remaining: 2.05s
607:	learn: 9.7900073	total: 3.24s	remaining: 2.09s
608:	learn: 9.7884985	total: 3.24s	remaining: 2.08s
609:	learn: 9.7853960	total: 3.24s	remaining: 2.07s
610:	learn: 9.7826890	total: 3.24s	remaining: 2.06s
611:	learn: 9.7789930	total: 3.24s	remaining: 2.06s
612:	learn: 9.7753556	total: 3.24s	remaining: 2.05s
613:	learn: 9.7743277	total: 3.25s	remaining: 2.04s
614:	learn: 9.7680953	total: 3.25s	remaining: 2.03s
615:	learn: 9.7651817	total: 3.25s	remaining: 2.02s
616:	learn: 9.7634745	total: 3.25s	remaining: 2.02s
617:	learn: 9.7591256	total: 3.25s	remaining: 2.01s
618:	learn: 9.7578128	total: 3.25s	remaining: 2s
619:	learn: 9.7567972	total: 3.25s	remaining: 1.99s
620:	learn: 9.7545550	total: 3.25s	remaining: 1.98s
621:	learn: 9.7513966	total: 3.25s	remaining: 1.98s
622:	learn: 9.7492897	total: 3.25s	remaining: 1.97s
623:	learn: 9.7430061	total: 3.25s	remaining: 1.96s
624:	learn: 9.7389011	total: 3.25s	remaining: 1.95s
625:	learn: 9.7371939	total: 3.33s	remaining: 1.99s
626:	learn: 9.7362022	total: 3.33s	remaining: 1.98s
627:	learn: 9.7314678	total: 3.33s	remaining: 1.98s
628:	learn: 9.7288538	total: 3.33s	remaining: 1.97s
629:	learn: 9.7246995	total: 3.34s	remaining: 1.96s
630:	learn: 9.7213372	total: 3.34s	remaining: 1.95s
631:	learn: 9.7161185	total: 3.34s	remaining: 1.94s
632:	learn: 9.7129159	total: 3.34s	remaining: 1.94s
633:	learn: 9.7087097	total: 3.34s	remaining: 1.93s
634:	learn: 9.7059309	total: 3.34s	remaining: 1.92s
635:	learn: 9.6988864	total: 3.34s	remaining: 1.91s
636:	learn: 9.6960340	total: 3.34s	remaining: 1.9s
637:	learn: 9.6945556	total: 3.34s	remaining: 1.9s
638:	learn: 9.6908590	total: 3.34s	remaining: 1.89s
639:	learn: 9.6880085	total: 3.35s	remaining: 1.88s
640:	learn: 9.6798179	total: 3.35s	remaining: 1.87s
641:	learn: 9.6701064	total: 3.35s	remaining: 1.87s
642:	learn: 9.6683573	total: 3.35s	remaining: 1.86s
643:	learn: 9.6655583	total: 3.42s	remaining: 1.89s
644:	learn: 9.6605902	total: 3.42s	remaining: 1.88s
645:	learn: 9.6586765	total: 3.42s	remaining: 1.88s
646:	learn: 9.6557854	total: 3.43s	remaining: 1.87s

647:	learn: 9.6523646	total: 3.43s	remaining: 1.86s
648:	learn: 9.6482214	total: 3.43s	remaining: 1.85s
649:	learn: 9.6446427	total: 3.43s	remaining: 1.85s
650:	learn: 9.6388852	total: 3.43s	remaining: 1.84s
651:	learn: 9.6353102	total: 3.43s	remaining: 1.83s
652:	learn: 9.6343412	total: 3.43s	remaining: 1.82s
653:	learn: 9.6270119	total: 3.43s	remaining: 1.82s
654:	learn: 9.6200567	total: 3.43s	remaining: 1.81s
655:	learn: 9.6168352	total: 3.44s	remaining: 1.8s
656:	learn: 9.6142102	total: 3.44s	remaining: 1.79s
657:	learn: 9.6119010	total: 3.44s	remaining: 1.79s
658:	learn: 9.6093699	total: 3.44s	remaining: 1.78s
659:	learn: 9.6073645	total: 3.44s	remaining: 1.77s
660:	learn: 9.6037450	total: 3.44s	remaining: 1.76s
661:	learn: 9.5992195	total: 3.44s	remaining: 1.76s
662:	learn: 9.5975211	total: 3.52s	remaining: 1.79s
663:	learn: 9.5965768	total: 3.52s	remaining: 1.78s
664:	learn: 9.5902637	total: 3.52s	remaining: 1.77s
665:	learn: 9.5870826	total: 3.52s	remaining: 1.76s
666:	learn: 9.5843913	total: 3.52s	remaining: 1.76s
667:	learn: 9.5801376	total: 3.52s	remaining: 1.75s
668:	learn: 9.5766782	total: 3.52s	remaining: 1.74s
669:	learn: 9.5751043	total: 3.52s	remaining: 1.73s
670:	learn: 9.5734939	total: 3.52s	remaining: 1.73s
671:	learn: 9.5725616	total: 3.52s	remaining: 1.72s
672:	learn: 9.5701426	total: 3.52s	remaining: 1.71s
673:	learn: 9.5672394	total: 3.52s	remaining: 1.71s
674:	learn: 9.5642310	total: 3.52s	remaining: 1.7s
675:	learn: 9.5616784	total: 3.53s	remaining: 1.69s
676:	learn: 9.5591417	total: 3.53s	remaining: 1.68s
677:	learn: 9.5565261	total: 3.53s	remaining: 1.68s
678:	learn: 9.5524541	total: 3.53s	remaining: 1.67s
679:	learn: 9.5479032	total: 3.58s	remaining: 1.69s
680:	learn: 9.5462951	total: 3.59s	remaining: 1.68s
681:	learn: 9.5435884	total: 3.59s	remaining: 1.67s
682:	learn: 9.5393988	total: 3.59s	remaining: 1.67s
683:	learn: 9.5364253	total: 3.59s	remaining: 1.66s
684:	learn: 9.5336210	total: 3.59s	remaining: 1.65s
685:	learn: 9.5308120	total: 3.59s	remaining: 1.64s
686:	learn: 9.5278647	total: 3.59s	remaining: 1.64s
687:	learn: 9.5255250	total: 3.59s	remaining: 1.63s
688:	learn: 9.5223481	total: 3.59s	remaining: 1.62s
689:	learn: 9.5208378	total: 3.59s	remaining: 1.61s
690:	learn: 9.5170057	total: 3.59s	remaining: 1.61s
691:	learn: 9.5118741	total: 3.59s	remaining: 1.6s
692:	learn: 9.5065120	total: 3.59s	remaining: 1.59s
693:	learn: 9.5028852	total: 3.59s	remaining: 1.58s
694:	learn: 9.4988754	total: 3.6s	remaining: 1.58s
695:	learn: 9.4962558	total: 3.6s	remaining: 1.57s
696:	learn: 9.4926967	total: 3.68s	remaining: 1.6s
697:	learn: 9.4913341	total: 3.68s	remaining: 1.59s
698:	learn: 9.4883301	total: 3.68s	remaining: 1.58s
699:	learn: 9.4837568	total: 3.68s	remaining: 1.58s
700:	learn: 9.4813200	total: 3.68s	remaining: 1.57s
701:	learn: 9.4790401	total: 3.68s	remaining: 1.56s
702:	learn: 9.4764429	total: 3.68s	remaining: 1.56s
703:	learn: 9.4677940	total: 3.68s	remaining: 1.55s
704:	learn: 9.4636192	total: 3.68s	remaining: 1.54s
705:	learn: 9.4606143	total: 3.69s	remaining: 1.53s
706:	learn: 9.4577036	total: 3.69s	remaining: 1.53s
707:	learn: 9.4547078	total: 3.69s	remaining: 1.52s

708:	learn: 9.4519271	total: 3.69s	remaining: 1.51s
709:	learn: 9.4470472	total: 3.69s	remaining: 1.51s
710:	learn: 9.4441286	total: 3.69s	remaining: 1.5s
711:	learn: 9.4417014	total: 3.69s	remaining: 1.49s
712:	learn: 9.4399707	total: 3.69s	remaining: 1.49s
713:	learn: 9.4377198	total: 3.77s	remaining: 1.51s
714:	learn: 9.4346416	total: 3.77s	remaining: 1.5s
715:	learn: 9.4314471	total: 3.78s	remaining: 1.5s
716:	learn: 9.4305510	total: 3.78s	remaining: 1.49s
717:	learn: 9.4207623	total: 3.78s	remaining: 1.48s
718:	learn: 9.4181364	total: 3.78s	remaining: 1.48s
719:	learn: 9.4166204	total: 3.78s	remaining: 1.47s
720:	learn: 9.4136289	total: 3.78s	remaining: 1.46s
721:	learn: 9.4127466	total: 3.78s	remaining: 1.46s
722:	learn: 9.4100379	total: 3.78s	remaining: 1.45s
723:	learn: 9.4045514	total: 3.78s	remaining: 1.44s
724:	learn: 9.4032765	total: 3.78s	remaining: 1.43s
725:	learn: 9.4004048	total: 3.78s	remaining: 1.43s
726:	learn: 9.3975122	total: 3.78s	remaining: 1.42s
727:	learn: 9.3933365	total: 3.78s	remaining: 1.41s
728:	learn: 9.3924229	total: 3.79s	remaining: 1.41s
729:	learn: 9.3904242	total: 3.79s	remaining: 1.4s
730:	learn: 9.3883376	total: 3.79s	remaining: 1.39s
731:	learn: 9.3828067	total: 3.79s	remaining: 1.39s
732:	learn: 9.3763320	total: 3.87s	remaining: 1.41s
733:	learn: 9.3750912	total: 3.87s	remaining: 1.4s
734:	learn: 9.3694962	total: 3.87s	remaining: 1.39s
735:	learn: 9.3659104	total: 3.87s	remaining: 1.39s
736:	learn: 9.3650355	total: 3.87s	remaining: 1.38s
737:	learn: 9.3630165	total: 3.87s	remaining: 1.37s
738:	learn: 9.3614589	total: 3.87s	remaining: 1.37s
739:	learn: 9.3544669	total: 3.87s	remaining: 1.36s
740:	learn: 9.3511761	total: 3.87s	remaining: 1.35s
741:	learn: 9.3479596	total: 3.87s	remaining: 1.35s
742:	learn: 9.3458748	total: 3.87s	remaining: 1.34s
743:	learn: 9.3444518	total: 3.87s	remaining: 1.33s
744:	learn: 9.3435926	total: 3.87s	remaining: 1.33s
745:	learn: 9.3400125	total: 3.88s	remaining: 1.32s
746:	learn: 9.3386835	total: 3.88s	remaining: 1.31s
747:	learn: 9.3367706	total: 3.88s	remaining: 1.31s
748:	learn: 9.3338219	total: 3.96s	remaining: 1.33s
749:	learn: 9.3310940	total: 3.96s	remaining: 1.32s
750:	learn: 9.3289543	total: 3.96s	remaining: 1.31s
751:	learn: 9.3252645	total: 3.96s	remaining: 1.31s
752:	learn: 9.3230352	total: 3.96s	remaining: 1.3s
753:	learn: 9.3193646	total: 3.96s	remaining: 1.29s
754:	learn: 9.3185261	total: 3.96s	remaining: 1.29s
755:	learn: 9.3151920	total: 3.97s	remaining: 1.28s
756:	learn: 9.3121726	total: 3.97s	remaining: 1.27s
757:	learn: 9.3100731	total: 3.97s	remaining: 1.27s
758:	learn: 9.3067640	total: 3.97s	remaining: 1.26s
759:	learn: 9.3041162	total: 3.97s	remaining: 1.25s
760:	learn: 9.3023530	total: 3.97s	remaining: 1.25s
761:	learn: 9.2975624	total: 3.97s	remaining: 1.24s
762:	learn: 9.2952812	total: 3.97s	remaining: 1.23s
763:	learn: 9.2903157	total: 3.97s	remaining: 1.23s
764:	learn: 9.2877238	total: 3.97s	remaining: 1.22s
765:	learn: 9.2868092	total: 3.97s	remaining: 1.21s
766:	learn: 9.2836360	total: 4.05s	remaining: 1.23s
767:	learn: 9.2819737	total: 4.05s	remaining: 1.23s
768:	learn: 9.2798493	total: 4.06s	remaining: 1.22s

769:	learn: 9.2752174	total: 4.06s	remaining: 1.21s
770:	learn: 9.2699297	total: 4.06s	remaining: 1.21s
771:	learn: 9.2674285	total: 4.06s	remaining: 1.2s
772:	learn: 9.2644869	total: 4.06s	remaining: 1.19s
773:	learn: 9.2625473	total: 4.06s	remaining: 1.19s
774:	learn: 9.2597283	total: 4.06s	remaining: 1.18s
775:	learn: 9.2560329	total: 4.06s	remaining: 1.17s
776:	learn: 9.2552182	total: 4.06s	remaining: 1.17s
777:	learn: 9.2512766	total: 4.06s	remaining: 1.16s
778:	learn: 9.2431963	total: 4.06s	remaining: 1.15s
779:	learn: 9.2413811	total: 4.06s	remaining: 1.15s
780:	learn: 9.2384814	total: 4.06s	remaining: 1.14s
781:	learn: 9.2352092	total: 4.06s	remaining: 1.13s
782:	learn: 9.2272839	total: 4.07s	remaining: 1.13s
783:	learn: 9.2240073	total: 4.07s	remaining: 1.12s
784:	learn: 9.2184106	total: 4.15s	remaining: 1.14s
785:	learn: 9.2166142	total: 4.15s	remaining: 1.13s
786:	learn: 9.2134265	total: 4.15s	remaining: 1.12s
787:	learn: 9.2106326	total: 4.15s	remaining: 1.12s
788:	learn: 9.2080320	total: 4.15s	remaining: 1.11s
789:	learn: 9.2053045	total: 4.15s	remaining: 1.1s
790:	learn: 9.2044951	total: 4.15s	remaining: 1.1s
791:	learn: 9.2022361	total: 4.15s	remaining: 1.09s
792:	learn: 9.2002769	total: 4.16s	remaining: 1.08s
793:	learn: 9.1981538	total: 4.16s	remaining: 1.08s
794:	learn: 9.1974430	total: 4.16s	remaining: 1.07s
795:	learn: 9.1955757	total: 4.16s	remaining: 1.06s
796:	learn: 9.1926326	total: 4.16s	remaining: 1.06s
797:	learn: 9.1907378	total: 4.16s	remaining: 1.05s
798:	learn: 9.1888013	total: 4.16s	remaining: 1.05s
799:	learn: 9.1812725	total: 4.17s	remaining: 1.04s
800:	learn: 9.1797355	total: 4.17s	remaining: 1.03s
801:	learn: 9.1767652	total: 4.24s	remaining: 1.05s
802:	learn: 9.1741459	total: 4.24s	remaining: 1.04s
803:	learn: 9.1733513	total: 4.24s	remaining: 1.03s
804:	learn: 9.1711308	total: 4.25s	remaining: 1.03s
805:	learn: 9.1683378	total: 4.25s	remaining: 1.02s
806:	learn: 9.1671721	total: 4.25s	remaining: 1.01s
807:	learn: 9.1621901	total: 4.25s	remaining: 1.01s
808:	learn: 9.1592245	total: 4.25s	remaining: 1s
809:	learn: 9.1554551	total: 4.25s	remaining: 997ms
810:	learn: 9.1526961	total: 4.25s	remaining: 990ms
811:	learn: 9.1519127	total: 4.25s	remaining: 984ms
812:	learn: 9.1485557	total: 4.25s	remaining: 978ms
813:	learn: 9.1461219	total: 4.25s	remaining: 972ms
814:	learn: 9.1452800	total: 4.25s	remaining: 965ms
815:	learn: 9.1386688	total: 4.25s	remaining: 959ms
816:	learn: 9.1366418	total: 4.34s	remaining: 972ms
817:	learn: 9.1319788	total: 4.34s	remaining: 965ms
818:	learn: 9.1267993	total: 4.34s	remaining: 959ms
819:	learn: 9.1232817	total: 4.34s	remaining: 953ms
820:	learn: 9.1214652	total: 4.34s	remaining: 946ms
821:	learn: 9.1196634	total: 4.34s	remaining: 940ms
822:	learn: 9.1189711	total: 4.34s	remaining: 934ms
823:	learn: 9.1168976	total: 4.34s	remaining: 928ms
824:	learn: 9.1141082	total: 4.34s	remaining: 921ms
825:	learn: 9.1096429	total: 4.34s	remaining: 915ms
826:	learn: 9.1055835	total: 4.34s	remaining: 909ms
827:	learn: 9.1038238	total: 4.35s	remaining: 903ms
828:	learn: 9.1030522	total: 4.35s	remaining: 897ms
829:	learn: 9.1007516	total: 4.35s	remaining: 890ms

830:	learn: 9.0980990	total: 4.35s	remaining: 884ms
831:	learn: 9.0931825	total: 4.35s	remaining: 878ms
832:	learn: 9.0901720	total: 4.35s	remaining: 872ms
833:	learn: 9.0875755	total: 4.43s	remaining: 882ms
834:	learn: 9.0859013	total: 4.43s	remaining: 876ms
835:	learn: 9.0847070	total: 4.43s	remaining: 870ms
836:	learn: 9.0811934	total: 4.43s	remaining: 863ms
837:	learn: 9.0785255	total: 4.43s	remaining: 857ms
838:	learn: 9.0747181	total: 4.43s	remaining: 851ms
839:	learn: 9.0676801	total: 4.43s	remaining: 845ms
840:	learn: 9.0636572	total: 4.44s	remaining: 839ms
841:	learn: 9.0618544	total: 4.44s	remaining: 833ms
842:	learn: 9.0595111	total: 4.44s	remaining: 826ms
843:	learn: 9.0575217	total: 4.44s	remaining: 820ms
844:	learn: 9.0567076	total: 4.44s	remaining: 814ms
845:	learn: 9.0538052	total: 4.44s	remaining: 808ms
846:	learn: 9.0528640	total: 4.44s	remaining: 802ms
847:	learn: 9.0488959	total: 4.44s	remaining: 796ms
848:	learn: 9.0470826	total: 4.44s	remaining: 790ms
849:	learn: 9.0440833	total: 4.44s	remaining: 784ms
850:	learn: 9.0412666	total: 4.44s	remaining: 778ms
851:	learn: 9.0370449	total: 4.53s	remaining: 786ms
852:	learn: 9.0333492	total: 4.53s	remaining: 780ms
853:	learn: 9.0325296	total: 4.53s	remaining: 774ms
854:	learn: 9.0265895	total: 4.53s	remaining: 768ms
855:	learn: 9.0205574	total: 4.53s	remaining: 762ms
856:	learn: 9.0191520	total: 4.53s	remaining: 756ms
857:	learn: 9.0130158	total: 4.53s	remaining: 750ms
858:	learn: 9.0101074	total: 4.53s	remaining: 744ms
859:	learn: 9.0078465	total: 4.53s	remaining: 738ms
860:	learn: 9.0052496	total: 4.53s	remaining: 732ms
861:	learn: 9.0023891	total: 4.54s	remaining: 726ms
862:	learn: 8.9967251	total: 4.54s	remaining: 720ms
863:	learn: 8.9945028	total: 4.54s	remaining: 714ms
864:	learn: 8.9880681	total: 4.54s	remaining: 708ms
865:	learn: 8.9850954	total: 4.54s	remaining: 702ms
866:	learn: 8.9835211	total: 4.54s	remaining: 696ms
867:	learn: 8.9796994	total: 4.62s	remaining: 703ms
868:	learn: 8.9755105	total: 4.62s	remaining: 697ms
869:	learn: 8.9731471	total: 4.62s	remaining: 691ms
870:	learn: 8.9688822	total: 4.62s	remaining: 685ms
871:	learn: 8.9655512	total: 4.62s	remaining: 679ms
872:	learn: 8.9600090	total: 4.62s	remaining: 673ms
873:	learn: 8.9579618	total: 4.63s	remaining: 667ms
874:	learn: 8.9540205	total: 4.63s	remaining: 661ms
875:	learn: 8.9507632	total: 4.63s	remaining: 655ms
876:	learn: 8.9483791	total: 4.63s	remaining: 649ms
877:	learn: 8.9457631	total: 4.63s	remaining: 643ms
878:	learn: 8.9431903	total: 4.63s	remaining: 637ms
879:	learn: 8.9406892	total: 4.63s	remaining: 631ms
880:	learn: 8.9398906	total: 4.63s	remaining: 625ms
881:	learn: 8.9370065	total: 4.63s	remaining: 619ms
882:	learn: 8.9328976	total: 4.64s	remaining: 614ms
883:	learn: 8.9321142	total: 4.64s	remaining: 608ms
884:	learn: 8.9313587	total: 4.71s	remaining: 612ms
885:	learn: 8.9252819	total: 4.71s	remaining: 607ms
886:	learn: 8.9245066	total: 4.71s	remaining: 601ms
887:	learn: 8.9221224	total: 4.71s	remaining: 595ms
888:	learn: 8.9189720	total: 4.71s	remaining: 589ms
889:	learn: 8.9137650	total: 4.72s	remaining: 583ms
890:	learn: 8.9114816	total: 4.72s	remaining: 577ms

891:	learn: 8.9095809	total: 4.72s	remaining: 571ms
892:	learn: 8.9090203	total: 4.72s	remaining: 565ms
893:	learn: 8.9074017	total: 4.72s	remaining: 560ms
894:	learn: 8.9014029	total: 4.72s	remaining: 554ms
895:	learn: 8.8986819	total: 4.72s	remaining: 548ms
896:	learn: 8.8978056	total: 4.72s	remaining: 542ms
897:	learn: 8.8920310	total: 4.72s	remaining: 536ms
898:	learn: 8.8903190	total: 4.72s	remaining: 531ms
899:	learn: 8.8844022	total: 4.72s	remaining: 525ms
900:	learn: 8.8817975	total: 4.81s	remaining: 528ms
901:	learn: 8.8799262	total: 4.81s	remaining: 522ms
902:	learn: 8.8770409	total: 4.81s	remaining: 517ms
903:	learn: 8.8745575	total: 4.81s	remaining: 511ms
904:	learn: 8.8714889	total: 4.81s	remaining: 505ms
905:	learn: 8.8707813	total: 4.81s	remaining: 499ms
906:	learn: 8.8683076	total: 4.81s	remaining: 494ms
907:	learn: 8.8657709	total: 4.81s	remaining: 488ms
908:	learn: 8.8646443	total: 4.81s	remaining: 482ms
909:	learn: 8.8627277	total: 4.82s	remaining: 476ms
910:	learn: 8.8597315	total: 4.82s	remaining: 470ms
911:	learn: 8.8586975	total: 4.82s	remaining: 465ms
912:	learn: 8.8555118	total: 4.82s	remaining: 459ms
913:	learn: 8.8549823	total: 4.82s	remaining: 453ms
914:	learn: 8.8509126	total: 4.82s	remaining: 448ms
915:	learn: 8.8466670	total: 4.82s	remaining: 442ms
916:	learn: 8.8425726	total: 4.82s	remaining: 436ms
917:	learn: 8.8404759	total: 4.82s	remaining: 431ms
918:	learn: 8.8385007	total: 4.82s	remaining: 425ms
919:	learn: 8.8360733	total: 4.9s	remaining: 426ms
920:	learn: 8.8332378	total: 4.9s	remaining: 420ms
921:	learn: 8.8311584	total: 4.9s	remaining: 415ms
922:	learn: 8.8304410	total: 4.9s	remaining: 409ms
923:	learn: 8.8288183	total: 4.9s	remaining: 403ms
924:	learn: 8.8265430	total: 4.9s	remaining: 398ms
925:	learn: 8.8237693	total: 4.91s	remaining: 392ms
926:	learn: 8.8207285	total: 4.91s	remaining: 386ms
927:	learn: 8.8190202	total: 4.91s	remaining: 381ms
928:	learn: 8.8182777	total: 4.91s	remaining: 375ms
929:	learn: 8.8175985	total: 4.91s	remaining: 369ms
930:	learn: 8.8169294	total: 4.91s	remaining: 364ms
931:	learn: 8.8138157	total: 4.91s	remaining: 358ms
932:	learn: 8.8115961	total: 4.91s	remaining: 353ms
933:	learn: 8.8100308	total: 4.91s	remaining: 347ms
934:	learn: 8.8073325	total: 4.91s	remaining: 341ms
935:	learn: 8.8015918	total: 4.91s	remaining: 336ms
936:	learn: 8.7978878	total: 4.91s	remaining: 330ms
937:	learn: 8.7952937	total: 4.99s	remaining: 330ms
938:	learn: 8.7937334	total: 4.99s	remaining: 324ms
939:	learn: 8.7892002	total: 5s	remaining: 319ms
940:	learn: 8.7872199	total: 5s	remaining: 313ms
941:	learn: 8.7821453	total: 5s	remaining: 308ms
942:	learn: 8.7780480	total: 5s	remaining: 302ms
943:	learn: 8.7754580	total: 5s	remaining: 297ms
944:	learn: 8.7735199	total: 5s	remaining: 291ms
945:	learn: 8.7687739	total: 5s	remaining: 285ms
946:	learn: 8.7659000	total: 5s	remaining: 280ms
947:	learn: 8.7646783	total: 5s	remaining: 274ms
948:	learn: 8.7629813	total: 5s	remaining: 269ms
949:	learn: 8.7608817	total: 5s	remaining: 263ms
950:	learn: 8.7604073	total: 5.01s	remaining: 258ms
951:	learn: 8.7535785	total: 5.01s	remaining: 253ms

952:	learn: 8.7511576	total: 5.09s	remaining: 251ms
953:	learn: 8.7481088	total: 5.09s	remaining: 245ms
954:	learn: 8.7468612	total: 5.09s	remaining: 240ms
955:	learn: 8.7434669	total: 5.09s	remaining: 234ms
956:	learn: 8.7427177	total: 5.09s	remaining: 229ms
957:	learn: 8.7411074	total: 5.09s	remaining: 223ms
958:	learn: 8.7373998	total: 5.09s	remaining: 218ms
959:	learn: 8.7331855	total: 5.09s	remaining: 212ms
960:	learn: 8.7318501	total: 5.09s	remaining: 207ms
961:	learn: 8.7304501	total: 5.09s	remaining: 201ms
962:	learn: 8.7282512	total: 5.09s	remaining: 196ms
963:	learn: 8.7266885	total: 5.1s	remaining: 190ms
964:	learn: 8.7248361	total: 5.1s	remaining: 185ms
965:	learn: 8.7211653	total: 5.1s	remaining: 179ms
966:	learn: 8.7205185	total: 5.1s	remaining: 174ms
967:	learn: 8.7187300	total: 5.1s	remaining: 169ms
968:	learn: 8.7177674	total: 5.1s	remaining: 163ms
969:	learn: 8.7152859	total: 5.1s	remaining: 158ms
970:	learn: 8.7096925	total: 5.18s	remaining: 155ms
971:	learn: 8.7074744	total: 5.18s	remaining: 149ms
972:	learn: 8.7033994	total: 5.18s	remaining: 144ms
973:	learn: 8.6996907	total: 5.18s	remaining: 138ms
974:	learn: 8.6972407	total: 5.18s	remaining: 133ms
975:	learn: 8.6935992	total: 5.18s	remaining: 128ms
976:	learn: 8.6894819	total: 5.19s	remaining: 122ms
977:	learn: 8.6872021	total: 5.19s	remaining: 117ms
978:	learn: 8.6850119	total: 5.19s	remaining: 111ms
979:	learn: 8.6834058	total: 5.19s	remaining: 106ms
980:	learn: 8.6805927	total: 5.19s	remaining: 101ms
981:	learn: 8.6790781	total: 5.19s	remaining: 95.1ms
982:	learn: 8.6751717	total: 5.19s	remaining: 89.8ms
983:	learn: 8.6734126	total: 5.19s	remaining: 84.4ms
984:	learn: 8.6722898	total: 5.19s	remaining: 79.1ms
985:	learn: 8.6679020	total: 5.19s	remaining: 73.7ms
986:	learn: 8.6669556	total: 5.19s	remaining: 68.4ms
987:	learn: 8.6612420	total: 5.19s	remaining: 63.1ms
988:	learn: 8.6589479	total: 5.19s	remaining: 57.8ms
989:	learn: 8.6564576	total: 5.27s	remaining: 53.3ms
990:	learn: 8.6548947	total: 5.28s	remaining: 47.9ms
991:	learn: 8.6509377	total: 5.28s	remaining: 42.5ms
992:	learn: 8.6485959	total: 5.28s	remaining: 37.2ms
993:	learn: 8.6467289	total: 5.28s	remaining: 31.9ms
994:	learn: 8.6403242	total: 5.28s	remaining: 26.5ms
995:	learn: 8.6342399	total: 5.28s	remaining: 21.2ms
996:	learn: 8.6320584	total: 5.28s	remaining: 15.9ms
997:	learn: 8.6274244	total: 5.28s	remaining: 10.6ms
998:	learn: 8.6257572	total: 5.28s	remaining: 5.29ms
999:	learn: 8.6241330	total: 5.28s	remaining: 0us
0:	learn: 14.4697274	total: 810us	remaining: 809ms
1:	learn: 14.2064472	total: 1.99ms	remaining: 991ms
2:	learn: 13.8855748	total: 2.66ms	remaining: 885ms
3:	learn: 13.6528746	total: 3.31ms	remaining: 824ms
4:	learn: 13.4684039	total: 3.94ms	remaining: 784ms
5:	learn: 13.3124621	total: 4.68ms	remaining: 776ms
6:	learn: 13.1711228	total: 5.34ms	remaining: 758ms
7:	learn: 12.9900521	total: 5.98ms	remaining: 741ms
8:	learn: 12.8358028	total: 6.58ms	remaining: 725ms
9:	learn: 12.7119154	total: 7.17ms	remaining: 710ms
10:	learn: 12.6086806	total: 8.04ms	remaining: 723ms
11:	learn: 12.5177188	total: 8.68ms	remaining: 715ms
12:	learn: 12.4078995	total: 9.3ms	remaining: 706ms

13:	learn: 12.3033868	total: 15.3ms	remaining: 1.08s
14:	learn: 12.2269780	total: 15.9ms	remaining: 1.04s
15:	learn: 12.1398621	total: 16.6ms	remaining: 1.02s
16:	learn: 12.0810745	total: 17.2ms	remaining: 994ms
17:	learn: 12.0206598	total: 17.8ms	remaining: 973ms
18:	learn: 11.9927533	total: 18.5ms	remaining: 953ms
19:	learn: 11.9587691	total: 19.1ms	remaining: 935ms
20:	learn: 11.9194131	total: 19.7ms	remaining: 919ms
21:	learn: 11.8565979	total: 20.4ms	remaining: 905ms
22:	learn: 11.8009622	total: 20.9ms	remaining: 890ms
23:	learn: 11.7773702	total: 21.7ms	remaining: 881ms
24:	learn: 11.7369362	total: 22.3ms	remaining: 869ms
25:	learn: 11.7032869	total: 22.9ms	remaining: 859ms
26:	learn: 11.6597721	total: 23.6ms	remaining: 849ms
27:	learn: 11.6238591	total: 24.2ms	remaining: 839ms
28:	learn: 11.5937293	total: 24.8ms	remaining: 830ms
29:	learn: 11.5629093	total: 30.6ms	remaining: 988ms
30:	learn: 11.5461595	total: 32.5ms	remaining: 1.01s
31:	learn: 11.5110045	total: 110ms	remaining: 3.32s
32:	learn: 11.4647649	total: 111ms	remaining: 3.24s
33:	learn: 11.4035954	total: 111ms	remaining: 3.17s
34:	learn: 11.3575471	total: 112ms	remaining: 3.09s
35:	learn: 11.3214849	total: 113ms	remaining: 3.03s
36:	learn: 11.3036071	total: 114ms	remaining: 2.96s
37:	learn: 11.2886382	total: 114ms	remaining: 2.9s
38:	learn: 11.2517699	total: 115ms	remaining: 2.83s
39:	learn: 11.2328499	total: 116ms	remaining: 2.78s
40:	learn: 11.2261187	total: 116ms	remaining: 2.72s
41:	learn: 11.1802876	total: 117ms	remaining: 2.66s
42:	learn: 11.1598294	total: 117ms	remaining: 2.61s
43:	learn: 11.1363502	total: 118ms	remaining: 2.56s
44:	learn: 11.1150604	total: 119ms	remaining: 2.52s
45:	learn: 11.0969266	total: 119ms	remaining: 2.47s
46:	learn: 11.0607510	total: 120ms	remaining: 2.43s
47:	learn: 11.0371751	total: 120ms	remaining: 2.38s
48:	learn: 11.0231243	total: 121ms	remaining: 2.35s
49:	learn: 11.0041927	total: 121ms	remaining: 2.31s
50:	learn: 10.9748174	total: 203ms	remaining: 3.78s
51:	learn: 10.9543661	total: 204ms	remaining: 3.72s
52:	learn: 10.9457628	total: 205ms	remaining: 3.66s
53:	learn: 10.9348646	total: 205ms	remaining: 3.6s
54:	learn: 10.9134111	total: 206ms	remaining: 3.54s
55:	learn: 10.8957990	total: 207ms	remaining: 3.48s
56:	learn: 10.8715695	total: 207ms	remaining: 3.43s
57:	learn: 10.8361584	total: 208ms	remaining: 3.38s
58:	learn: 10.8111306	total: 209ms	remaining: 3.33s
59:	learn: 10.8017830	total: 209ms	remaining: 3.28s
60:	learn: 10.7928746	total: 210ms	remaining: 3.23s
61:	learn: 10.7823180	total: 210ms	remaining: 3.18s
62:	learn: 10.7673692	total: 211ms	remaining: 3.14s
63:	learn: 10.7389998	total: 212ms	remaining: 3.1s
64:	learn: 10.7257387	total: 212ms	remaining: 3.06s
65:	learn: 10.7167505	total: 213ms	remaining: 3.01s
66:	learn: 10.7040618	total: 297ms	remaining: 4.14s
67:	learn: 10.6795603	total: 298ms	remaining: 4.08s
68:	learn: 10.6585669	total: 299ms	remaining: 4.03s
69:	learn: 10.6424810	total: 299ms	remaining: 3.98s
70:	learn: 10.6300923	total: 300ms	remaining: 3.92s
71:	learn: 10.6110591	total: 301ms	remaining: 3.87s
72:	learn: 10.5898079	total: 301ms	remaining: 3.83s
73:	learn: 10.5725852	total: 302ms	remaining: 3.78s

74:	learn: 10.5529767	total: 303ms	remaining: 3.73s
75:	learn: 10.5368949	total: 303ms	remaining: 3.69s
76:	learn: 10.5142616	total: 304ms	remaining: 3.65s
77:	learn: 10.4961951	total: 305ms	remaining: 3.6s
78:	learn: 10.4780257	total: 306ms	remaining: 3.56s
79:	learn: 10.4673653	total: 307ms	remaining: 3.52s
80:	learn: 10.4461144	total: 307ms	remaining: 3.48s
81:	learn: 10.4315267	total: 308ms	remaining: 3.45s
82:	learn: 10.4123584	total: 309ms	remaining: 3.41s
83:	learn: 10.4042388	total: 309ms	remaining: 3.37s
84:	learn: 10.3674910	total: 390ms	remaining: 4.2s
85:	learn: 10.3486197	total: 392ms	remaining: 4.17s
86:	learn: 10.3144707	total: 393ms	remaining: 4.12s
87:	learn: 10.3054383	total: 393ms	remaining: 4.08s
88:	learn: 10.2817855	total: 394ms	remaining: 4.03s
89:	learn: 10.2656878	total: 395ms	remaining: 3.99s
90:	learn: 10.2312748	total: 395ms	remaining: 3.95s
91:	learn: 10.2038568	total: 396ms	remaining: 3.91s
92:	learn: 10.1797223	total: 397ms	remaining: 3.87s
93:	learn: 10.1645839	total: 397ms	remaining: 3.83s
94:	learn: 10.1590978	total: 398ms	remaining: 3.79s
95:	learn: 10.1367206	total: 399ms	remaining: 3.75s
96:	learn: 10.0902854	total: 399ms	remaining: 3.72s
97:	learn: 10.0755671	total: 400ms	remaining: 3.68s
98:	learn: 10.0576007	total: 401ms	remaining: 3.65s
99:	learn: 10.0446883	total: 401ms	remaining: 3.61s
100:	learn: 10.0295289	total: 402ms	remaining: 3.58s
101:	learn: 10.0134338	total: 483ms	remaining: 4.26s
102:	learn: 9.9967018	total: 484ms	remaining: 4.22s
103:	learn: 9.9815036	total: 487ms	remaining: 4.2s
104:	learn: 9.9675789	total: 488ms	remaining: 4.16s
105:	learn: 9.9615285	total: 488ms	remaining: 4.12s
106:	learn: 9.9579539	total: 489ms	remaining: 4.08s
107:	learn: 9.9534743	total: 490ms	remaining: 4.04s
108:	learn: 9.9462924	total: 490ms	remaining: 4.01s
109:	learn: 9.9308639	total: 491ms	remaining: 3.97s
110:	learn: 9.9047572	total: 492ms	remaining: 3.94s
111:	learn: 9.8808125	total: 492ms	remaining: 3.9s
112:	learn: 9.8679812	total: 493ms	remaining: 3.87s
113:	learn: 9.8518191	total: 494ms	remaining: 3.83s
114:	learn: 9.8306588	total: 494ms	remaining: 3.8s
115:	learn: 9.8251633	total: 495ms	remaining: 3.77s
116:	learn: 9.8050345	total: 496ms	remaining: 3.74s
117:	learn: 9.7908344	total: 496ms	remaining: 3.71s
118:	learn: 9.7755004	total: 502ms	remaining: 3.72s
119:	learn: 9.7633636	total: 577ms	remaining: 4.23s
120:	learn: 9.7257498	total: 578ms	remaining: 4.2s
121:	learn: 9.7073728	total: 578ms	remaining: 4.16s
122:	learn: 9.7035121	total: 579ms	remaining: 4.13s
123:	learn: 9.6954970	total: 580ms	remaining: 4.1s
124:	learn: 9.6895298	total: 581ms	remaining: 4.07s
125:	learn: 9.6688602	total: 582ms	remaining: 4.04s
126:	learn: 9.6470257	total: 583ms	remaining: 4s
127:	learn: 9.6234146	total: 583ms	remaining: 3.97s
128:	learn: 9.6055705	total: 584ms	remaining: 3.94s
129:	learn: 9.6015813	total: 585ms	remaining: 3.91s
130:	learn: 9.5915602	total: 585ms	remaining: 3.88s
131:	learn: 9.5833973	total: 586ms	remaining: 3.85s
132:	learn: 9.5681305	total: 587ms	remaining: 3.82s
133:	learn: 9.5650960	total: 587ms	remaining: 3.79s
134:	learn: 9.5465585	total: 593ms	remaining: 3.8s

135:	learn: 9.5204499	total: 671ms	remaining: 4.26s
136:	learn: 9.5119166	total: 671ms	remaining: 4.23s
137:	learn: 9.5047985	total: 672ms	remaining: 4.2s
138:	learn: 9.4876946	total: 673ms	remaining: 4.17s
139:	learn: 9.4764387	total: 673ms	remaining: 4.14s
140:	learn: 9.4684353	total: 674ms	remaining: 4.11s
141:	learn: 9.4658101	total: 675ms	remaining: 4.08s
142:	learn: 9.4625266	total: 675ms	remaining: 4.05s
143:	learn: 9.4578512	total: 676ms	remaining: 4.02s
144:	learn: 9.4456325	total: 677ms	remaining: 3.99s
145:	learn: 9.4258998	total: 677ms	remaining: 3.96s
146:	learn: 9.4097470	total: 678ms	remaining: 3.93s
147:	learn: 9.4004969	total: 679ms	remaining: 3.91s
148:	learn: 9.3932841	total: 680ms	remaining: 3.88s
149:	learn: 9.3758673	total: 680ms	remaining: 3.85s
150:	learn: 9.3590501	total: 681ms	remaining: 3.83s
151:	learn: 9.3440261	total: 681ms	remaining: 3.8s
152:	learn: 9.3336163	total: 765ms	remaining: 4.23s
153:	learn: 9.3150417	total: 765ms	remaining: 4.2s
154:	learn: 9.3043240	total: 766ms	remaining: 4.18s
155:	learn: 9.2970410	total: 767ms	remaining: 4.15s
156:	learn: 9.2944054	total: 768ms	remaining: 4.12s
157:	learn: 9.2828799	total: 769ms	remaining: 4.1s
158:	learn: 9.2736118	total: 770ms	remaining: 4.07s
159:	learn: 9.2672339	total: 771ms	remaining: 4.04s
160:	learn: 9.2505160	total: 771ms	remaining: 4.02s
161:	learn: 9.2390541	total: 772ms	remaining: 3.99s
162:	learn: 9.2286356	total: 773ms	remaining: 3.97s
163:	learn: 9.2052547	total: 773ms	remaining: 3.94s
164:	learn: 9.2032437	total: 779ms	remaining: 3.94s
165:	learn: 9.1847198	total: 780ms	remaining: 3.92s
166:	learn: 9.1694908	total: 786ms	remaining: 3.92s
167:	learn: 9.1549577	total: 787ms	remaining: 3.9s
168:	learn: 9.1480290	total: 788ms	remaining: 3.87s
169:	learn: 9.1398792	total: 788ms	remaining: 3.85s
170:	learn: 9.1301153	total: 789ms	remaining: 3.82s
171:	learn: 9.1276524	total: 790ms	remaining: 3.8s
172:	learn: 9.1120460	total: 790ms	remaining: 3.78s
173:	learn: 9.1096794	total: 791ms	remaining: 3.75s
174:	learn: 9.0895700	total: 792ms	remaining: 3.73s
175:	learn: 9.0677347	total: 793ms	remaining: 3.71s
176:	learn: 9.0561071	total: 793ms	remaining: 3.69s
177:	learn: 9.0536954	total: 794ms	remaining: 3.67s
178:	learn: 9.0454360	total: 794ms	remaining: 3.64s
179:	learn: 9.0281956	total: 795ms	remaining: 3.62s
180:	learn: 9.0259818	total: 796ms	remaining: 3.6s
181:	learn: 9.0196718	total: 796ms	remaining: 3.58s
182:	learn: 9.0065070	total: 802ms	remaining: 3.58s
183:	learn: 9.0034218	total: 803ms	remaining: 3.56s
184:	learn: 8.9737850	total: 874ms	remaining: 3.85s
185:	learn: 8.9607223	total: 874ms	remaining: 3.83s
186:	learn: 8.9375431	total: 875ms	remaining: 3.8s
187:	learn: 8.9289777	total: 876ms	remaining: 3.78s
188:	learn: 8.9170271	total: 876ms	remaining: 3.76s
189:	learn: 8.9047943	total: 878ms	remaining: 3.74s
190:	learn: 8.9008842	total: 879ms	remaining: 3.72s
191:	learn: 8.8900833	total: 880ms	remaining: 3.7s
192:	learn: 8.8831384	total: 881ms	remaining: 3.68s
193:	learn: 8.8814962	total: 881ms	remaining: 3.66s
194:	learn: 8.8768109	total: 882ms	remaining: 3.64s
195:	learn: 8.8700682	total: 883ms	remaining: 3.62s

196:	learn: 8.8558278	total: 883ms	remaining: 3.6s
197:	learn: 8.8451959	total: 884ms	remaining: 3.58s
198:	learn: 8.8428961	total: 885ms	remaining: 3.56s
199:	learn: 8.8407572	total: 886ms	remaining: 3.54s
200:	learn: 8.8313864	total: 961ms	remaining: 3.82s
201:	learn: 8.8087156	total: 962ms	remaining: 3.8s
202:	learn: 8.8032539	total: 963ms	remaining: 3.78s
203:	learn: 8.7961220	total: 963ms	remaining: 3.76s
204:	learn: 8.7918156	total: 964ms	remaining: 3.74s
205:	learn: 8.7753394	total: 965ms	remaining: 3.72s
206:	learn: 8.7609360	total: 965ms	remaining: 3.7s
207:	learn: 8.7564926	total: 966ms	remaining: 3.68s
208:	learn: 8.7447737	total: 967ms	remaining: 3.66s
209:	learn: 8.7333520	total: 967ms	remaining: 3.64s
210:	learn: 8.7255795	total: 968ms	remaining: 3.62s
211:	learn: 8.7192334	total: 969ms	remaining: 3.6s
212:	learn: 8.7071910	total: 969ms	remaining: 3.58s
213:	learn: 8.7021185	total: 970ms	remaining: 3.56s
214:	learn: 8.6922883	total: 973ms	remaining: 3.55s
215:	learn: 8.6802126	total: 973ms	remaining: 3.53s
216:	learn: 8.6637578	total: 979ms	remaining: 3.53s
217:	learn: 8.6566140	total: 980ms	remaining: 3.51s
218:	learn: 8.6468065	total: 1.05s	remaining: 3.76s
219:	learn: 8.6414506	total: 1.06s	remaining: 3.74s
220:	learn: 8.6356379	total: 1.06s	remaining: 3.73s
221:	learn: 8.6338613	total: 1.06s	remaining: 3.71s
222:	learn: 8.6199770	total: 1.06s	remaining: 3.69s
223:	learn: 8.5992430	total: 1.06s	remaining: 3.67s
224:	learn: 8.5750212	total: 1.06s	remaining: 3.65s
225:	learn: 8.5728974	total: 1.06s	remaining: 3.63s
226:	learn: 8.5603390	total: 1.06s	remaining: 3.61s
227:	learn: 8.5538633	total: 1.06s	remaining: 3.6s
228:	learn: 8.5482551	total: 1.06s	remaining: 3.58s
229:	learn: 8.5355037	total: 1.06s	remaining: 3.56s
230:	learn: 8.5333577	total: 1.06s	remaining: 3.54s
231:	learn: 8.5316964	total: 1.06s	remaining: 3.53s
232:	learn: 8.5276379	total: 1.07s	remaining: 3.51s
233:	learn: 8.5140900	total: 1.07s	remaining: 3.49s
234:	learn: 8.5118043	total: 1.15s	remaining: 3.74s
235:	learn: 8.5102946	total: 1.15s	remaining: 3.72s
236:	learn: 8.4962219	total: 1.15s	remaining: 3.7s
237:	learn: 8.4948584	total: 1.15s	remaining: 3.68s
238:	learn: 8.4903699	total: 1.15s	remaining: 3.67s
239:	learn: 8.4838171	total: 1.15s	remaining: 3.65s
240:	learn: 8.4706265	total: 1.15s	remaining: 3.63s
241:	learn: 8.4575134	total: 1.15s	remaining: 3.61s
242:	learn: 8.4472644	total: 1.15s	remaining: 3.59s
243:	learn: 8.4449964	total: 1.15s	remaining: 3.58s
244:	learn: 8.4315003	total: 1.16s	remaining: 3.56s
245:	learn: 8.4205995	total: 1.16s	remaining: 3.54s
246:	learn: 8.4072498	total: 1.16s	remaining: 3.52s
247:	learn: 8.3962768	total: 1.16s	remaining: 3.51s
248:	learn: 8.3787096	total: 1.16s	remaining: 3.49s
249:	learn: 8.3720830	total: 1.16s	remaining: 3.48s
250:	learn: 8.3615709	total: 1.16s	remaining: 3.46s
251:	learn: 8.3602244	total: 1.16s	remaining: 3.44s
252:	learn: 8.3556761	total: 1.24s	remaining: 3.67s
253:	learn: 8.3498043	total: 1.24s	remaining: 3.65s
254:	learn: 8.3385688	total: 1.24s	remaining: 3.63s
255:	learn: 8.3273048	total: 1.24s	remaining: 3.62s
256:	learn: 8.3193349	total: 1.24s	remaining: 3.6s

257:	learn: 8.3037256	total: 1.25s	remaining: 3.58s
258:	learn: 8.2847683	total: 1.25s	remaining: 3.56s
259:	learn: 8.2744354	total: 1.25s	remaining: 3.55s
260:	learn: 8.2708736	total: 1.25s	remaining: 3.53s
261:	learn: 8.2628067	total: 1.25s	remaining: 3.52s
262:	learn: 8.2456529	total: 1.25s	remaining: 3.5s
263:	learn: 8.2422156	total: 1.25s	remaining: 3.49s
264:	learn: 8.2307568	total: 1.25s	remaining: 3.47s
265:	learn: 8.2159020	total: 1.25s	remaining: 3.46s
266:	learn: 8.1982687	total: 1.25s	remaining: 3.45s
267:	learn: 8.1912468	total: 1.26s	remaining: 3.43s
268:	learn: 8.1870577	total: 1.33s	remaining: 3.63s
269:	learn: 8.1689977	total: 1.33s	remaining: 3.61s
270:	learn: 8.1675656	total: 1.34s	remaining: 3.59s
271:	learn: 8.1564410	total: 1.34s	remaining: 3.58s
272:	learn: 8.1306142	total: 1.34s	remaining: 3.56s
273:	learn: 8.1185756	total: 1.34s	remaining: 3.54s
274:	learn: 8.1135565	total: 1.34s	remaining: 3.53s
275:	learn: 8.1000675	total: 1.34s	remaining: 3.51s
276:	learn: 8.0987115	total: 1.34s	remaining: 3.5s
277:	learn: 8.0889967	total: 1.34s	remaining: 3.48s
278:	learn: 8.0727168	total: 1.34s	remaining: 3.47s
279:	learn: 8.0698069	total: 1.34s	remaining: 3.45s
280:	learn: 8.0685551	total: 1.34s	remaining: 3.44s
281:	learn: 8.0670442	total: 1.34s	remaining: 3.42s
282:	learn: 8.0577951	total: 1.34s	remaining: 3.4s
283:	learn: 8.0436783	total: 1.34s	remaining: 3.39s
284:	learn: 8.0394830	total: 1.34s	remaining: 3.37s
285:	learn: 8.0352794	total: 1.43s	remaining: 3.57s
286:	learn: 8.0324430	total: 1.43s	remaining: 3.55s
287:	learn: 8.0209910	total: 1.43s	remaining: 3.54s
288:	learn: 8.0081466	total: 1.43s	remaining: 3.52s
289:	learn: 8.0069796	total: 1.43s	remaining: 3.5s
290:	learn: 7.9993782	total: 1.43s	remaining: 3.49s
291:	learn: 7.9905523	total: 1.43s	remaining: 3.47s
292:	learn: 7.9889537	total: 1.43s	remaining: 3.46s
293:	learn: 7.9859263	total: 1.43s	remaining: 3.44s
294:	learn: 7.9811760	total: 1.43s	remaining: 3.43s
295:	learn: 7.9791826	total: 1.44s	remaining: 3.41s
296:	learn: 7.9650823	total: 1.44s	remaining: 3.4s
297:	learn: 7.9620573	total: 1.44s	remaining: 3.38s
298:	learn: 7.9466508	total: 1.44s	remaining: 3.37s
299:	learn: 7.9365620	total: 1.44s	remaining: 3.35s
300:	learn: 7.9112523	total: 1.44s	remaining: 3.34s
301:	learn: 7.8990724	total: 1.44s	remaining: 3.33s
302:	learn: 7.8935626	total: 1.52s	remaining: 3.5s
303:	learn: 7.8856098	total: 1.52s	remaining: 3.49s
304:	learn: 7.8834552	total: 1.52s	remaining: 3.47s
305:	learn: 7.8710410	total: 1.52s	remaining: 3.46s
306:	learn: 7.8629959	total: 1.52s	remaining: 3.44s
307:	learn: 7.8561628	total: 1.52s	remaining: 3.43s
308:	learn: 7.8490782	total: 1.53s	remaining: 3.41s
309:	learn: 7.8303212	total: 1.53s	remaining: 3.4s
310:	learn: 7.8237495	total: 1.53s	remaining: 3.38s
311:	learn: 7.8100278	total: 1.53s	remaining: 3.37s
312:	learn: 7.8046134	total: 1.53s	remaining: 3.36s
313:	learn: 7.7945805	total: 1.53s	remaining: 3.34s
314:	learn: 7.7827826	total: 1.53s	remaining: 3.33s
315:	learn: 7.7795889	total: 1.53s	remaining: 3.31s
316:	learn: 7.7699571	total: 1.53s	remaining: 3.3s
317:	learn: 7.7690009	total: 1.53s	remaining: 3.29s

318:	learn: 7.7630129	total: 1.53s	remaining: 3.27s
319:	learn: 7.7569521	total: 1.54s	remaining: 3.27s
320:	learn: 7.7491873	total: 1.62s	remaining: 3.42s
321:	learn: 7.7396424	total: 1.62s	remaining: 3.4s
322:	learn: 7.7360077	total: 1.62s	remaining: 3.39s
323:	learn: 7.7276193	total: 1.62s	remaining: 3.38s
324:	learn: 7.7188171	total: 1.62s	remaining: 3.36s
325:	learn: 7.7066533	total: 1.62s	remaining: 3.35s
326:	learn: 7.7050977	total: 1.62s	remaining: 3.33s
327:	learn: 7.7041429	total: 1.62s	remaining: 3.32s
328:	learn: 7.7011561	total: 1.62s	remaining: 3.31s
329:	learn: 7.6936706	total: 1.62s	remaining: 3.29s
330:	learn: 7.6890244	total: 1.62s	remaining: 3.28s
331:	learn: 7.6728465	total: 1.62s	remaining: 3.27s
332:	learn: 7.6634115	total: 1.62s	remaining: 3.25s
333:	learn: 7.6486168	total: 1.62s	remaining: 3.24s
334:	learn: 7.6367559	total: 1.63s	remaining: 3.23s
335:	learn: 7.6257647	total: 1.63s	remaining: 3.21s
336:	learn: 7.6172158	total: 1.63s	remaining: 3.2s
337:	learn: 7.6147317	total: 1.71s	remaining: 3.35s
338:	learn: 7.6034895	total: 1.71s	remaining: 3.34s
339:	learn: 7.5978866	total: 1.71s	remaining: 3.33s
340:	learn: 7.5961586	total: 1.72s	remaining: 3.31s
341:	learn: 7.5890154	total: 1.72s	remaining: 3.3s
342:	learn: 7.5763383	total: 1.72s	remaining: 3.29s
343:	learn: 7.5652546	total: 1.72s	remaining: 3.27s
344:	learn: 7.5642396	total: 1.72s	remaining: 3.26s
345:	learn: 7.5564576	total: 1.72s	remaining: 3.25s
346:	learn: 7.5468281	total: 1.72s	remaining: 3.23s
347:	learn: 7.5378694	total: 1.72s	remaining: 3.22s
348:	learn: 7.5301500	total: 1.72s	remaining: 3.21s
349:	learn: 7.5262476	total: 1.72s	remaining: 3.2s
350:	learn: 7.5162070	total: 1.72s	remaining: 3.18s
351:	learn: 7.5059014	total: 1.73s	remaining: 3.18s
352:	learn: 7.4970078	total: 1.73s	remaining: 3.17s
353:	learn: 7.4895973	total: 1.8s	remaining: 3.29s
354:	learn: 7.4789726	total: 1.8s	remaining: 3.28s
355:	learn: 7.4695867	total: 1.8s	remaining: 3.27s
356:	learn: 7.4631005	total: 1.8s	remaining: 3.25s
357:	learn: 7.4571981	total: 1.81s	remaining: 3.24s
358:	learn: 7.4448881	total: 1.81s	remaining: 3.23s
359:	learn: 7.4405767	total: 1.81s	remaining: 3.21s
360:	learn: 7.4273758	total: 1.81s	remaining: 3.2s
361:	learn: 7.4166821	total: 1.81s	remaining: 3.19s
362:	learn: 7.4105677	total: 1.81s	remaining: 3.17s
363:	learn: 7.4014983	total: 1.81s	remaining: 3.16s
364:	learn: 7.3939301	total: 1.81s	remaining: 3.15s
365:	learn: 7.3842881	total: 1.81s	remaining: 3.14s
366:	learn: 7.3777656	total: 1.81s	remaining: 3.13s
367:	learn: 7.3740909	total: 1.82s	remaining: 3.12s
368:	learn: 7.3683468	total: 1.82s	remaining: 3.11s
369:	learn: 7.3645416	total: 1.9s	remaining: 3.23s
370:	learn: 7.3601477	total: 1.9s	remaining: 3.22s
371:	learn: 7.3560551	total: 1.9s	remaining: 3.21s
372:	learn: 7.3549001	total: 1.9s	remaining: 3.19s
373:	learn: 7.3506426	total: 1.9s	remaining: 3.19s
374:	learn: 7.3445233	total: 1.9s	remaining: 3.17s
375:	learn: 7.3321452	total: 1.9s	remaining: 3.16s
376:	learn: 7.3287398	total: 1.9s	remaining: 3.15s
377:	learn: 7.3203264	total: 1.91s	remaining: 3.13s
378:	learn: 7.3194053	total: 1.91s	remaining: 3.12s

379:	learn: 7.3039366	total: 1.91s	remaining: 3.11s
380:	learn: 7.2994103	total: 1.91s	remaining: 3.1s
381:	learn: 7.2896212	total: 1.91s	remaining: 3.09s
382:	learn: 7.2813629	total: 1.91s	remaining: 3.08s
383:	learn: 7.2723611	total: 1.91s	remaining: 3.07s
384:	learn: 7.2608881	total: 1.99s	remaining: 3.18s
385:	learn: 7.2522449	total: 1.99s	remaining: 3.17s
386:	learn: 7.2465312	total: 1.99s	remaining: 3.16s
387:	learn: 7.2332553	total: 1.99s	remaining: 3.14s
388:	learn: 7.2251120	total: 1.99s	remaining: 3.13s
389:	learn: 7.2218678	total: 1.99s	remaining: 3.12s
390:	learn: 7.2140148	total: 2s	remaining: 3.11s
391:	learn: 7.2078678	total: 2s	remaining: 3.1s
392:	learn: 7.1965626	total: 2s	remaining: 3.08s
393:	learn: 7.1878041	total: 2s	remaining: 3.07s
394:	learn: 7.1811989	total: 2s	remaining: 3.06s
395:	learn: 7.1802813	total: 2s	remaining: 3.05s
396:	learn: 7.1794162	total: 2s	remaining: 3.04s
397:	learn: 7.1675863	total: 2s	remaining: 3.02s
398:	learn: 7.1615059	total: 2s	remaining: 3.01s
399:	learn: 7.1530534	total: 2s	remaining: 3s
400:	learn: 7.1445516	total: 2s	remaining: 2.99s
401:	learn: 7.1385822	total: 2s	remaining: 2.98s
402:	learn: 7.1377798	total: 2.08s	remaining: 3.09s
403:	learn: 7.1278390	total: 2.08s	remaining: 3.08s
404:	learn: 7.1238620	total: 2.09s	remaining: 3.06s
405:	learn: 7.1216493	total: 2.09s	remaining: 3.05s
406:	learn: 7.1189776	total: 2.09s	remaining: 3.04s
407:	learn: 7.0998825	total: 2.09s	remaining: 3.03s
408:	learn: 7.0945736	total: 2.09s	remaining: 3.02s
409:	learn: 7.0884199	total: 2.09s	remaining: 3.01s
410:	learn: 7.0817205	total: 2.09s	remaining: 3s
411:	learn: 7.0722916	total: 2.09s	remaining: 2.98s
412:	learn: 7.0706734	total: 2.09s	remaining: 2.97s
413:	learn: 7.0662641	total: 2.09s	remaining: 2.96s
414:	learn: 7.0646921	total: 2.09s	remaining: 2.95s
415:	learn: 7.0594760	total: 2.09s	remaining: 2.94s
416:	learn: 7.0559122	total: 2.1s	remaining: 2.93s
417:	learn: 7.0519955	total: 2.1s	remaining: 2.92s
418:	learn: 7.0444064	total: 2.1s	remaining: 2.91s
419:	learn: 7.0349464	total: 2.1s	remaining: 2.9s
420:	learn: 7.0202327	total: 2.1s	remaining: 2.89s
421:	learn: 7.0113736	total: 2.1s	remaining: 2.88s
422:	learn: 7.0099380	total: 2.18s	remaining: 2.97s
423:	learn: 6.9986815	total: 2.18s	remaining: 2.96s
424:	learn: 6.9885421	total: 2.18s	remaining: 2.95s
425:	learn: 6.9868183	total: 2.18s	remaining: 2.94s
426:	learn: 6.9803401	total: 2.18s	remaining: 2.93s
427:	learn: 6.9732598	total: 2.18s	remaining: 2.92s
428:	learn: 6.9690223	total: 2.18s	remaining: 2.9s
429:	learn: 6.9674548	total: 2.18s	remaining: 2.89s
430:	learn: 6.9664297	total: 2.18s	remaining: 2.88s
431:	learn: 6.9592317	total: 2.18s	remaining: 2.87s
432:	learn: 6.9539500	total: 2.19s	remaining: 2.86s
433:	learn: 6.9410289	total: 2.19s	remaining: 2.85s
434:	learn: 6.9357345	total: 2.19s	remaining: 2.84s
435:	learn: 6.9334873	total: 2.19s	remaining: 2.83s
436:	learn: 6.9243454	total: 2.19s	remaining: 2.82s
437:	learn: 6.9154490	total: 2.19s	remaining: 2.81s
438:	learn: 6.9125762	total: 2.19s	remaining: 2.8s
439:	learn: 6.9037323	total: 2.19s	remaining: 2.79s

440:	learn: 6.8973400	total: 2.27s	remaining: 2.88s
441:	learn: 6.8932384	total: 2.27s	remaining: 2.87s
442:	learn: 6.8858655	total: 2.27s	remaining: 2.86s
443:	learn: 6.8719939	total: 2.27s	remaining: 2.85s
444:	learn: 6.8700815	total: 2.27s	remaining: 2.84s
445:	learn: 6.8632060	total: 2.27s	remaining: 2.83s
446:	learn: 6.8605551	total: 2.27s	remaining: 2.81s
447:	learn: 6.8549117	total: 2.28s	remaining: 2.8s
448:	learn: 6.8481258	total: 2.28s	remaining: 2.79s
449:	learn: 6.8392943	total: 2.28s	remaining: 2.78s
450:	learn: 6.8351374	total: 2.28s	remaining: 2.77s
451:	learn: 6.8262877	total: 2.28s	remaining: 2.76s
452:	learn: 6.8161372	total: 2.28s	remaining: 2.75s
453:	learn: 6.8100327	total: 2.28s	remaining: 2.74s
454:	learn: 6.8027724	total: 2.28s	remaining: 2.73s
455:	learn: 6.7979988	total: 2.28s	remaining: 2.72s
456:	learn: 6.7890171	total: 2.28s	remaining: 2.71s
457:	learn: 6.7852829	total: 2.28s	remaining: 2.7s
458:	learn: 6.7709022	total: 2.28s	remaining: 2.69s
459:	learn: 6.7693267	total: 2.36s	remaining: 2.78s
460:	learn: 6.7645517	total: 2.37s	remaining: 2.77s
461:	learn: 6.7568975	total: 2.37s	remaining: 2.75s
462:	learn: 6.7474073	total: 2.37s	remaining: 2.75s
463:	learn: 6.7434616	total: 2.37s	remaining: 2.73s
464:	learn: 6.7375181	total: 2.37s	remaining: 2.72s
465:	learn: 6.7252101	total: 2.37s	remaining: 2.71s
466:	learn: 6.7187017	total: 2.37s	remaining: 2.7s
467:	learn: 6.7141010	total: 2.37s	remaining: 2.69s
468:	learn: 6.7128786	total: 2.37s	remaining: 2.68s
469:	learn: 6.7031307	total: 2.37s	remaining: 2.67s
470:	learn: 6.6982279	total: 2.37s	remaining: 2.66s
471:	learn: 6.6935800	total: 2.37s	remaining: 2.65s
472:	learn: 6.6915336	total: 2.37s	remaining: 2.64s
473:	learn: 6.6812822	total: 2.37s	remaining: 2.63s
474:	learn: 6.6762479	total: 2.37s	remaining: 2.62s
475:	learn: 6.6755027	total: 2.38s	remaining: 2.61s
476:	learn: 6.6717562	total: 2.46s	remaining: 2.69s
477:	learn: 6.6644221	total: 2.46s	remaining: 2.69s
478:	learn: 6.6620089	total: 2.46s	remaining: 2.67s
479:	learn: 6.6565811	total: 2.46s	remaining: 2.67s
480:	learn: 6.6499546	total: 2.46s	remaining: 2.65s
481:	learn: 6.6383822	total: 2.46s	remaining: 2.65s
482:	learn: 6.6376703	total: 2.46s	remaining: 2.63s
483:	learn: 6.6313846	total: 2.46s	remaining: 2.63s
484:	learn: 6.6266750	total: 2.46s	remaining: 2.62s
485:	learn: 6.6247361	total: 2.46s	remaining: 2.61s
486:	learn: 6.6195121	total: 2.46s	remaining: 2.6s
487:	learn: 6.6159480	total: 2.46s	remaining: 2.59s
488:	learn: 6.6153510	total: 2.46s	remaining: 2.58s
489:	learn: 6.6106754	total: 2.47s	remaining: 2.57s
490:	learn: 6.6065790	total: 2.47s	remaining: 2.56s
491:	learn: 6.5962874	total: 2.47s	remaining: 2.55s
492:	learn: 6.5906373	total: 2.55s	remaining: 2.63s
493:	learn: 6.5839848	total: 2.55s	remaining: 2.62s
494:	learn: 6.5797716	total: 2.55s	remaining: 2.6s
495:	learn: 6.5757776	total: 2.55s	remaining: 2.6s
496:	learn: 6.5685252	total: 2.56s	remaining: 2.59s
497:	learn: 6.5678312	total: 2.56s	remaining: 2.58s
498:	learn: 6.5596861	total: 2.56s	remaining: 2.57s
499:	learn: 6.5525727	total: 2.56s	remaining: 2.56s
500:	learn: 6.5441364	total: 2.56s	remaining: 2.55s

501:	learn: 6.5296401	total: 2.56s	remaining: 2.54s
502:	learn: 6.5209479	total: 2.56s	remaining: 2.53s
503:	learn: 6.5153313	total: 2.57s	remaining: 2.52s
504:	learn: 6.5102705	total: 2.57s	remaining: 2.52s
505:	learn: 6.5025903	total: 2.57s	remaining: 2.51s
506:	learn: 6.4926378	total: 2.57s	remaining: 2.5s
507:	learn: 6.4877192	total: 2.57s	remaining: 2.49s
508:	learn: 6.4752102	total: 2.57s	remaining: 2.48s
509:	learn: 6.4730707	total: 2.57s	remaining: 2.47s
510:	learn: 6.4717982	total: 2.65s	remaining: 2.53s
511:	learn: 6.4585108	total: 2.65s	remaining: 2.52s
512:	learn: 6.4571919	total: 2.65s	remaining: 2.51s
513:	learn: 6.4528138	total: 2.65s	remaining: 2.5s
514:	learn: 6.4436572	total: 2.65s	remaining: 2.49s
515:	learn: 6.4345162	total: 2.65s	remaining: 2.48s
516:	learn: 6.4325966	total: 2.65s	remaining: 2.48s
517:	learn: 6.4319486	total: 2.65s	remaining: 2.47s
518:	learn: 6.4273669	total: 2.65s	remaining: 2.46s
519:	learn: 6.4219747	total: 2.65s	remaining: 2.45s
520:	learn: 6.4100159	total: 2.65s	remaining: 2.44s
521:	learn: 6.4030797	total: 2.65s	remaining: 2.43s
522:	learn: 6.3992125	total: 2.65s	remaining: 2.42s
523:	learn: 6.3985891	total: 2.65s	remaining: 2.41s
524:	learn: 6.3913700	total: 2.65s	remaining: 2.4s
525:	learn: 6.3882860	total: 2.66s	remaining: 2.39s
526:	learn: 6.3811180	total: 2.66s	remaining: 2.38s
527:	learn: 6.3740104	total: 2.66s	remaining: 2.38s
528:	learn: 6.3686795	total: 2.74s	remaining: 2.44s
529:	learn: 6.3631495	total: 2.74s	remaining: 2.43s
530:	learn: 6.3612310	total: 2.74s	remaining: 2.42s
531:	learn: 6.3544390	total: 2.74s	remaining: 2.41s
532:	learn: 6.3422989	total: 2.74s	remaining: 2.4s
533:	learn: 6.3344564	total: 2.74s	remaining: 2.39s
534:	learn: 6.3279618	total: 2.74s	remaining: 2.38s
535:	learn: 6.3208788	total: 2.74s	remaining: 2.38s
536:	learn: 6.3168430	total: 2.75s	remaining: 2.37s
537:	learn: 6.3112656	total: 2.75s	remaining: 2.36s
538:	learn: 6.3061334	total: 2.75s	remaining: 2.35s
539:	learn: 6.3051578	total: 2.75s	remaining: 2.34s
540:	learn: 6.3029744	total: 2.75s	remaining: 2.33s
541:	learn: 6.2964917	total: 2.75s	remaining: 2.32s
542:	learn: 6.2960372	total: 2.75s	remaining: 2.31s
543:	learn: 6.2919641	total: 2.75s	remaining: 2.3s
544:	learn: 6.2880468	total: 2.75s	remaining: 2.3s
545:	learn: 6.2859734	total: 2.76s	remaining: 2.29s
546:	learn: 6.2790502	total: 2.83s	remaining: 2.35s
547:	learn: 6.2749827	total: 2.83s	remaining: 2.34s
548:	learn: 6.2663594	total: 2.83s	remaining: 2.33s
549:	learn: 6.2625651	total: 2.83s	remaining: 2.32s
550:	learn: 6.2560648	total: 2.83s	remaining: 2.31s
551:	learn: 6.2512792	total: 2.84s	remaining: 2.3s
552:	learn: 6.2478723	total: 2.84s	remaining: 2.29s
553:	learn: 6.2415645	total: 2.84s	remaining: 2.28s
554:	learn: 6.2358292	total: 2.84s	remaining: 2.27s
555:	learn: 6.2288148	total: 2.84s	remaining: 2.27s
556:	learn: 6.2219923	total: 2.84s	remaining: 2.26s
557:	learn: 6.2173703	total: 2.84s	remaining: 2.25s
558:	learn: 6.2070807	total: 2.84s	remaining: 2.24s
559:	learn: 6.2009486	total: 2.84s	remaining: 2.23s
560:	learn: 6.1997590	total: 2.84s	remaining: 2.22s
561:	learn: 6.1944073	total: 2.84s	remaining: 2.21s

562:	learn: 6.1937377	total: 2.84s	remaining: 2.21s
563:	learn: 6.1932194	total: 2.85s	remaining: 2.2s
564:	learn: 6.1878776	total: 2.93s	remaining: 2.25s
565:	learn: 6.1871618	total: 2.93s	remaining: 2.24s
566:	learn: 6.1829685	total: 2.93s	remaining: 2.23s
567:	learn: 6.1773526	total: 2.93s	remaining: 2.23s
568:	learn: 6.1695039	total: 2.93s	remaining: 2.22s
569:	learn: 6.1595764	total: 2.93s	remaining: 2.21s
570:	learn: 6.1533052	total: 2.93s	remaining: 2.2s
571:	learn: 6.1440989	total: 2.93s	remaining: 2.19s
572:	learn: 6.1377717	total: 2.93s	remaining: 2.18s
573:	learn: 6.1369679	total: 2.93s	remaining: 2.18s
574:	learn: 6.1288085	total: 2.93s	remaining: 2.17s
575:	learn: 6.1230056	total: 2.93s	remaining: 2.16s
576:	learn: 6.1180165	total: 2.93s	remaining: 2.15s
577:	learn: 6.1124425	total: 2.94s	remaining: 2.14s
578:	learn: 6.1094271	total: 2.94s	remaining: 2.13s
579:	learn: 6.1080474	total: 2.94s	remaining: 2.13s
580:	learn: 6.1044062	total: 3.02s	remaining: 2.18s
581:	learn: 6.1000962	total: 3.02s	remaining: 2.17s
582:	learn: 6.0940091	total: 3.02s	remaining: 2.16s
583:	learn: 6.0861461	total: 3.02s	remaining: 2.15s
584:	learn: 6.0800476	total: 3.02s	remaining: 2.14s
585:	learn: 6.0774440	total: 3.02s	remaining: 2.14s
586:	learn: 6.0733063	total: 3.02s	remaining: 2.13s
587:	learn: 6.0715304	total: 3.02s	remaining: 2.12s
588:	learn: 6.0693606	total: 3.02s	remaining: 2.11s
589:	learn: 6.0648357	total: 3.03s	remaining: 2.1s
590:	learn: 6.0577595	total: 3.03s	remaining: 2.1s
591:	learn: 6.0533514	total: 3.03s	remaining: 2.09s
592:	learn: 6.0434609	total: 3.03s	remaining: 2.08s
593:	learn: 6.0354439	total: 3.03s	remaining: 2.07s
594:	learn: 6.0345101	total: 3.03s	remaining: 2.06s
595:	learn: 6.0332095	total: 3.03s	remaining: 2.05s
596:	learn: 6.0299428	total: 3.04s	remaining: 2.05s
597:	learn: 6.0206762	total: 3.04s	remaining: 2.04s
598:	learn: 6.0132565	total: 3.11s	remaining: 2.08s
599:	learn: 6.0117970	total: 3.12s	remaining: 2.08s
600:	learn: 6.0034731	total: 3.12s	remaining: 2.07s
601:	learn: 6.0029775	total: 3.12s	remaining: 2.06s
602:	learn: 6.0009804	total: 3.12s	remaining: 2.05s
603:	learn: 5.9974145	total: 3.12s	remaining: 2.04s
604:	learn: 5.9954939	total: 3.12s	remaining: 2.04s
605:	learn: 5.9936066	total: 3.12s	remaining: 2.03s
606:	learn: 5.9883148	total: 3.12s	remaining: 2.02s
607:	learn: 5.9826647	total: 3.12s	remaining: 2.01s
608:	learn: 5.9776480	total: 3.12s	remaining: 2s
609:	learn: 5.9744974	total: 3.12s	remaining: 2s
610:	learn: 5.9697604	total: 3.12s	remaining: 1.99s
611:	learn: 5.9691919	total: 3.12s	remaining: 1.98s
612:	learn: 5.9630856	total: 3.12s	remaining: 1.97s
613:	learn: 5.9620949	total: 3.13s	remaining: 1.96s
614:	learn: 5.9550050	total: 3.13s	remaining: 1.96s
615:	learn: 5.9508293	total: 3.13s	remaining: 1.95s
616:	learn: 5.9434223	total: 3.21s	remaining: 1.99s
617:	learn: 5.9424202	total: 3.21s	remaining: 1.98s
618:	learn: 5.9394679	total: 3.21s	remaining: 1.98s
619:	learn: 5.9384612	total: 3.21s	remaining: 1.97s
620:	learn: 5.9320709	total: 3.21s	remaining: 1.96s
621:	learn: 5.9269668	total: 3.21s	remaining: 1.95s
622:	learn: 5.9265159	total: 3.21s	remaining: 1.94s

623:	learn: 5.9212387	total: 3.21s	remaining: 1.94s
624:	learn: 5.9156635	total: 3.21s	remaining: 1.93s
625:	learn: 5.9147917	total: 3.21s	remaining: 1.92s
626:	learn: 5.9096448	total: 3.21s	remaining: 1.91s
627:	learn: 5.9034494	total: 3.21s	remaining: 1.9s
628:	learn: 5.8953488	total: 3.22s	remaining: 1.9s
629:	learn: 5.8922801	total: 3.22s	remaining: 1.89s
630:	learn: 5.8889355	total: 3.22s	remaining: 1.88s
631:	learn: 5.8805642	total: 3.22s	remaining: 1.87s
632:	learn: 5.8727060	total: 3.3s	remaining: 1.91s
633:	learn: 5.8686639	total: 3.3s	remaining: 1.91s
634:	learn: 5.8677101	total: 3.3s	remaining: 1.9s
635:	learn: 5.8657473	total: 3.31s	remaining: 1.89s
636:	learn: 5.8626995	total: 3.31s	remaining: 1.88s
637:	learn: 5.8578041	total: 3.31s	remaining: 1.88s
638:	learn: 5.8511728	total: 3.31s	remaining: 1.87s
639:	learn: 5.8501020	total: 3.31s	remaining: 1.86s
640:	learn: 5.8473091	total: 3.31s	remaining: 1.85s
641:	learn: 5.8468902	total: 3.31s	remaining: 1.84s
642:	learn: 5.8418158	total: 3.31s	remaining: 1.84s
643:	learn: 5.8401518	total: 3.31s	remaining: 1.83s
644:	learn: 5.8392103	total: 3.31s	remaining: 1.82s
645:	learn: 5.8347505	total: 3.31s	remaining: 1.81s
646:	learn: 5.8340433	total: 3.31s	remaining: 1.81s
647:	learn: 5.8283847	total: 3.31s	remaining: 1.8s
648:	learn: 5.8215380	total: 3.31s	remaining: 1.79s
649:	learn: 5.8132605	total: 3.31s	remaining: 1.78s
650:	learn: 5.8080391	total: 3.4s	remaining: 1.82s
651:	learn: 5.8072689	total: 3.4s	remaining: 1.81s
652:	learn: 5.8030989	total: 3.4s	remaining: 1.8s
653:	learn: 5.8023999	total: 3.4s	remaining: 1.8s
654:	learn: 5.7957565	total: 3.4s	remaining: 1.79s
655:	learn: 5.7902753	total: 3.4s	remaining: 1.78s
656:	learn: 5.7862407	total: 3.4s	remaining: 1.77s
657:	learn: 5.7829245	total: 3.4s	remaining: 1.77s
658:	learn: 5.7727091	total: 3.4s	remaining: 1.76s
659:	learn: 5.7675402	total: 3.4s	remaining: 1.75s
660:	learn: 5.7616794	total: 3.4s	remaining: 1.75s
661:	learn: 5.7548500	total: 3.4s	remaining: 1.74s
662:	learn: 5.7511221	total: 3.4s	remaining: 1.73s
663:	learn: 5.7461935	total: 3.4s	remaining: 1.72s
664:	learn: 5.7369103	total: 3.4s	remaining: 1.72s
665:	learn: 5.7350306	total: 3.41s	remaining: 1.71s
666:	learn: 5.7345530	total: 3.41s	remaining: 1.7s
667:	learn: 5.7308013	total: 3.49s	remaining: 1.73s
668:	learn: 5.7301878	total: 3.49s	remaining: 1.73s
669:	learn: 5.7295099	total: 3.49s	remaining: 1.72s
670:	learn: 5.7285089	total: 3.49s	remaining: 1.71s
671:	learn: 5.7223060	total: 3.5s	remaining: 1.71s
672:	learn: 5.7140121	total: 3.5s	remaining: 1.7s
673:	learn: 5.7137216	total: 3.5s	remaining: 1.69s
674:	learn: 5.7051321	total: 3.5s	remaining: 1.68s
675:	learn: 5.6984742	total: 3.5s	remaining: 1.68s
676:	learn: 5.6919380	total: 3.5s	remaining: 1.67s
677:	learn: 5.6897009	total: 3.5s	remaining: 1.66s
678:	learn: 5.6859524	total: 3.5s	remaining: 1.65s
679:	learn: 5.6814851	total: 3.5s	remaining: 1.65s
680:	learn: 5.6771344	total: 3.5s	remaining: 1.64s
681:	learn: 5.6766833	total: 3.5s	remaining: 1.63s
682:	learn: 5.6727045	total: 3.5s	remaining: 1.63s
683:	learn: 5.6671378	total: 3.5s	remaining: 1.62s

684:	learn: 5.6568728	total: 3.5s	remaining: 1.61s
685:	learn: 5.6547706	total: 3.58s	remaining: 1.64s
686:	learn: 5.6543646	total: 3.58s	remaining: 1.63s
687:	learn: 5.6513728	total: 3.58s	remaining: 1.63s
688:	learn: 5.6467110	total: 3.58s	remaining: 1.62s
689:	learn: 5.6424448	total: 3.59s	remaining: 1.61s
690:	learn: 5.6418630	total: 3.59s	remaining: 1.6s
691:	learn: 5.6415790	total: 3.59s	remaining: 1.6s
692:	learn: 5.6410437	total: 3.59s	remaining: 1.59s
693:	learn: 5.6385164	total: 3.59s	remaining: 1.58s
694:	learn: 5.6325100	total: 3.59s	remaining: 1.57s
695:	learn: 5.6272264	total: 3.59s	remaining: 1.57s
696:	learn: 5.6268641	total: 3.59s	remaining: 1.56s
697:	learn: 5.6220281	total: 3.59s	remaining: 1.55s
698:	learn: 5.6145160	total: 3.59s	remaining: 1.55s
699:	learn: 5.6094916	total: 3.59s	remaining: 1.54s
700:	learn: 5.6035044	total: 3.6s	remaining: 1.53s
701:	learn: 5.6016515	total: 3.6s	remaining: 1.53s
702:	learn: 5.5952443	total: 3.6s	remaining: 1.52s
703:	learn: 5.5948733	total: 3.68s	remaining: 1.54s
704:	learn: 5.5896211	total: 3.68s	remaining: 1.54s
705:	learn: 5.5819609	total: 3.68s	remaining: 1.53s
706:	learn: 5.5752609	total: 3.68s	remaining: 1.52s
707:	learn: 5.5690565	total: 3.68s	remaining: 1.52s
708:	learn: 5.5673763	total: 3.68s	remaining: 1.51s
709:	learn: 5.5623256	total: 3.68s	remaining: 1.5s
710:	learn: 5.5610050	total: 3.68s	remaining: 1.5s
711:	learn: 5.5593056	total: 3.68s	remaining: 1.49s
712:	learn: 5.5561310	total: 3.68s	remaining: 1.48s
713:	learn: 5.5555669	total: 3.68s	remaining: 1.48s
714:	learn: 5.5506268	total: 3.68s	remaining: 1.47s
715:	learn: 5.5483801	total: 3.69s	remaining: 1.46s
716:	learn: 5.5443977	total: 3.69s	remaining: 1.45s
717:	learn: 5.5400320	total: 3.69s	remaining: 1.45s
718:	learn: 5.5395769	total: 3.69s	remaining: 1.44s
719:	learn: 5.5391497	total: 3.69s	remaining: 1.44s
720:	learn: 5.5306456	total: 3.77s	remaining: 1.46s
721:	learn: 5.5254245	total: 3.77s	remaining: 1.45s
722:	learn: 5.5249329	total: 3.77s	remaining: 1.45s
723:	learn: 5.5243547	total: 3.77s	remaining: 1.44s
724:	learn: 5.5179390	total: 3.77s	remaining: 1.43s
725:	learn: 5.5158827	total: 3.77s	remaining: 1.42s
726:	learn: 5.5149858	total: 3.77s	remaining: 1.42s
727:	learn: 5.5107311	total: 3.77s	remaining: 1.41s
728:	learn: 5.5084987	total: 3.78s	remaining: 1.4s
729:	learn: 5.4991973	total: 3.78s	remaining: 1.4s
730:	learn: 5.4988797	total: 3.78s	remaining: 1.39s
731:	learn: 5.4930335	total: 3.78s	remaining: 1.38s
732:	learn: 5.4894489	total: 3.78s	remaining: 1.38s
733:	learn: 5.4868044	total: 3.78s	remaining: 1.37s
734:	learn: 5.4819211	total: 3.78s	remaining: 1.36s
735:	learn: 5.4765293	total: 3.78s	remaining: 1.36s
736:	learn: 5.4724903	total: 3.79s	remaining: 1.35s
737:	learn: 5.4691624	total: 3.79s	remaining: 1.34s
738:	learn: 5.4636395	total: 3.79s	remaining: 1.34s
739:	learn: 5.4590288	total: 3.79s	remaining: 1.33s
740:	learn: 5.4577415	total: 3.79s	remaining: 1.32s
741:	learn: 5.4492012	total: 3.79s	remaining: 1.32s
742:	learn: 5.4469791	total: 3.79s	remaining: 1.31s
743:	learn: 5.4427083	total: 3.79s	remaining: 1.3s
744:	learn: 5.4388845	total: 3.79s	remaining: 1.3s

745:	learn: 5.4338388	total: 3.79s	remaining: 1.29s
746:	learn: 5.4277031	total: 3.79s	remaining: 1.28s
747:	learn: 5.4260055	total: 3.8s	remaining: 1.28s
748:	learn: 5.4195133	total: 3.8s	remaining: 1.27s
749:	learn: 5.4159555	total: 3.8s	remaining: 1.27s
750:	learn: 5.4105835	total: 3.8s	remaining: 1.26s
751:	learn: 5.4097087	total: 3.8s	remaining: 1.25s
752:	learn: 5.4062713	total: 3.8s	remaining: 1.25s
753:	learn: 5.4054258	total: 3.88s	remaining: 1.27s
754:	learn: 5.3980538	total: 3.88s	remaining: 1.26s
755:	learn: 5.3935827	total: 3.88s	remaining: 1.25s
756:	learn: 5.3901778	total: 3.88s	remaining: 1.25s
757:	learn: 5.3885363	total: 3.88s	remaining: 1.24s
758:	learn: 5.3840241	total: 3.88s	remaining: 1.23s
759:	learn: 5.3794793	total: 3.89s	remaining: 1.23s
760:	learn: 5.3787394	total: 3.89s	remaining: 1.22s
761:	learn: 5.3736829	total: 3.89s	remaining: 1.21s
762:	learn: 5.3668568	total: 3.89s	remaining: 1.21s
763:	learn: 5.3664200	total: 3.89s	remaining: 1.2s
764:	learn: 5.3661358	total: 3.89s	remaining: 1.19s
765:	learn: 5.3615703	total: 3.89s	remaining: 1.19s
766:	learn: 5.3586914	total: 3.89s	remaining: 1.18s
767:	learn: 5.3582137	total: 3.89s	remaining: 1.18s
768:	learn: 5.3573325	total: 3.89s	remaining: 1.17s
769:	learn: 5.3526060	total: 3.89s	remaining: 1.16s
770:	learn: 5.3504316	total: 3.98s	remaining: 1.18s
771:	learn: 5.3495166	total: 3.98s	remaining: 1.17s
772:	learn: 5.3481956	total: 3.98s	remaining: 1.17s
773:	learn: 5.3459515	total: 3.98s	remaining: 1.16s
774:	learn: 5.3437890	total: 3.98s	remaining: 1.16s
775:	learn: 5.3434255	total: 3.98s	remaining: 1.15s
776:	learn: 5.3389136	total: 3.98s	remaining: 1.14s
777:	learn: 5.3320915	total: 3.98s	remaining: 1.14s
778:	learn: 5.3257444	total: 3.98s	remaining: 1.13s
779:	learn: 5.3223650	total: 3.98s	remaining: 1.12s
780:	learn: 5.3128185	total: 3.98s	remaining: 1.12s
781:	learn: 5.3088452	total: 3.98s	remaining: 1.11s
782:	learn: 5.3074598	total: 3.98s	remaining: 1.1s
783:	learn: 5.3060083	total: 3.99s	remaining: 1.1s
784:	learn: 5.3056579	total: 3.99s	remaining: 1.09s
785:	learn: 5.3034349	total: 3.99s	remaining: 1.08s
786:	learn: 5.3032304	total: 4.07s	remaining: 1.1s
787:	learn: 5.3017254	total: 4.07s	remaining: 1.09s
788:	learn: 5.2993261	total: 4.07s	remaining: 1.09s
789:	learn: 5.2988851	total: 4.07s	remaining: 1.08s
790:	learn: 5.2909179	total: 4.07s	remaining: 1.08s
791:	learn: 5.2893786	total: 4.07s	remaining: 1.07s
792:	learn: 5.2815450	total: 4.08s	remaining: 1.06s
793:	learn: 5.2801038	total: 4.08s	remaining: 1.06s
794:	learn: 5.2749063	total: 4.08s	remaining: 1.05s
795:	learn: 5.2690159	total: 4.08s	remaining: 1.04s
796:	learn: 5.2637294	total: 4.08s	remaining: 1.04s
797:	learn: 5.2598634	total: 4.08s	remaining: 1.03s
798:	learn: 5.2560793	total: 4.08s	remaining: 1.03s
799:	learn: 5.2552900	total: 4.08s	remaining: 1.02s
800:	learn: 5.2500895	total: 4.08s	remaining: 1.01s
801:	learn: 5.2445998	total: 4.09s	remaining: 1.01s
802:	learn: 5.2389620	total: 4.16s	remaining: 1.02s
803:	learn: 5.2342645	total: 4.16s	remaining: 1.01s
804:	learn: 5.2337087	total: 4.16s	remaining: 1.01s
805:	learn: 5.2317890	total: 4.17s	remaining: 1s

806:	learn: 5.2284153	total: 4.17s	remaining: 996ms
807:	learn: 5.2279731	total: 4.17s	remaining: 990ms
808:	learn: 5.2275866	total: 4.17s	remaining: 984ms
809:	learn: 5.2274060	total: 4.17s	remaining: 978ms
810:	learn: 5.2268616	total: 4.17s	remaining: 971ms
811:	learn: 5.2175791	total: 4.17s	remaining: 965ms
812:	learn: 5.2172371	total: 4.17s	remaining: 959ms
813:	learn: 5.2122516	total: 4.17s	remaining: 953ms
814:	learn: 5.2097469	total: 4.17s	remaining: 947ms
815:	learn: 5.2049887	total: 4.17s	remaining: 941ms
816:	learn: 5.2036950	total: 4.17s	remaining: 935ms
817:	learn: 5.2014925	total: 4.17s	remaining: 928ms
818:	learn: 5.2012999	total: 4.17s	remaining: 922ms
819:	learn: 5.1981214	total: 4.17s	remaining: 916ms
820:	learn: 5.1936585	total: 4.26s	remaining: 928ms
821:	learn: 5.1928359	total: 4.26s	remaining: 922ms
822:	learn: 5.1881456	total: 4.26s	remaining: 916ms
823:	learn: 5.1830481	total: 4.26s	remaining: 910ms
824:	learn: 5.1822817	total: 4.26s	remaining: 904ms
825:	learn: 5.1801062	total: 4.26s	remaining: 897ms
826:	learn: 5.1797546	total: 4.26s	remaining: 891ms
827:	learn: 5.1755477	total: 4.26s	remaining: 885ms
828:	learn: 5.1749670	total: 4.26s	remaining: 879ms
829:	learn: 5.1724699	total: 4.26s	remaining: 873ms
830:	learn: 5.1685686	total: 4.26s	remaining: 867ms
831:	learn: 5.1646187	total: 4.26s	remaining: 861ms
832:	learn: 5.1634714	total: 4.26s	remaining: 855ms
833:	learn: 5.1631534	total: 4.26s	remaining: 849ms
834:	learn: 5.1600048	total: 4.27s	remaining: 843ms
835:	learn: 5.1597040	total: 4.27s	remaining: 838ms
836:	learn: 5.1566371	total: 4.27s	remaining: 832ms
837:	learn: 5.1524527	total: 4.35s	remaining: 841ms
838:	learn: 5.1451054	total: 4.35s	remaining: 835ms
839:	learn: 5.1377153	total: 4.35s	remaining: 829ms
840:	learn: 5.1353581	total: 4.35s	remaining: 823ms
841:	learn: 5.1342783	total: 4.35s	remaining: 817ms
842:	learn: 5.1300480	total: 4.35s	remaining: 811ms
843:	learn: 5.1250429	total: 4.35s	remaining: 805ms
844:	learn: 5.1221862	total: 4.36s	remaining: 799ms
845:	learn: 5.1192067	total: 4.36s	remaining: 793ms
846:	learn: 5.1188272	total: 4.36s	remaining: 787ms
847:	learn: 5.1149251	total: 4.36s	remaining: 781ms
848:	learn: 5.1146100	total: 4.36s	remaining: 775ms
849:	learn: 5.1136277	total: 4.36s	remaining: 769ms
850:	learn: 5.1072182	total: 4.36s	remaining: 763ms
851:	learn: 5.1010689	total: 4.36s	remaining: 757ms
852:	learn: 5.0945597	total: 4.36s	remaining: 752ms
853:	learn: 5.0939115	total: 4.36s	remaining: 746ms
854:	learn: 5.0923269	total: 4.36s	remaining: 740ms
855:	learn: 5.0870331	total: 4.44s	remaining: 748ms
856:	learn: 5.0825074	total: 4.45s	remaining: 742ms
857:	learn: 5.0794972	total: 4.45s	remaining: 736ms
858:	learn: 5.0792309	total: 4.45s	remaining: 730ms
859:	learn: 5.0764942	total: 4.45s	remaining: 724ms
860:	learn: 5.0710070	total: 4.45s	remaining: 718ms
861:	learn: 5.0707096	total: 4.45s	remaining: 712ms
862:	learn: 5.0664023	total: 4.45s	remaining: 706ms
863:	learn: 5.0597487	total: 4.45s	remaining: 700ms
864:	learn: 5.0577706	total: 4.45s	remaining: 695ms
865:	learn: 5.0556226	total: 4.45s	remaining: 689ms
866:	learn: 5.0529701	total: 4.45s	remaining: 683ms

867:	learn: 5.0499585	total: 4.45s	remaining: 677ms
868:	learn: 5.0455548	total: 4.45s	remaining: 671ms
869:	learn: 5.0418189	total: 4.45s	remaining: 666ms
870:	learn: 5.0390769	total: 4.45s	remaining: 660ms
871:	learn: 5.0351672	total: 4.46s	remaining: 654ms
872:	learn: 5.0306192	total: 4.54s	remaining: 660ms
873:	learn: 5.0278287	total: 4.54s	remaining: 654ms
874:	learn: 5.0239786	total: 4.54s	remaining: 648ms
875:	learn: 5.0205424	total: 4.54s	remaining: 643ms
876:	learn: 5.0134201	total: 4.54s	remaining: 637ms
877:	learn: 5.0083903	total: 4.54s	remaining: 631ms
878:	learn: 5.0064225	total: 4.54s	remaining: 625ms
879:	learn: 5.0001581	total: 4.54s	remaining: 619ms
880:	learn: 4.9959832	total: 4.54s	remaining: 614ms
881:	learn: 4.9957149	total: 4.54s	remaining: 608ms
882:	learn: 4.9893015	total: 4.54s	remaining: 602ms
883:	learn: 4.9866000	total: 4.54s	remaining: 596ms
884:	learn: 4.9829692	total: 4.54s	remaining: 591ms
885:	learn: 4.9819851	total: 4.55s	remaining: 585ms
886:	learn: 4.9807928	total: 4.55s	remaining: 579ms
887:	learn: 4.9763305	total: 4.55s	remaining: 574ms
888:	learn: 4.9734409	total: 4.55s	remaining: 568ms
889:	learn: 4.9722891	total: 4.63s	remaining: 572ms
890:	learn: 4.9678706	total: 4.63s	remaining: 567ms
891:	learn: 4.9646037	total: 4.63s	remaining: 561ms
892:	learn: 4.9634592	total: 4.63s	remaining: 555ms
893:	learn: 4.9595333	total: 4.63s	remaining: 550ms
894:	learn: 4.9560643	total: 4.63s	remaining: 544ms
895:	learn: 4.9544294	total: 4.64s	remaining: 538ms
896:	learn: 4.9502923	total: 4.64s	remaining: 532ms
897:	learn: 4.9457578	total: 4.64s	remaining: 527ms
898:	learn: 4.9419515	total: 4.64s	remaining: 521ms
899:	learn: 4.9366774	total: 4.64s	remaining: 515ms
900:	learn: 4.9361386	total: 4.64s	remaining: 510ms
901:	learn: 4.9337100	total: 4.64s	remaining: 504ms
902:	learn: 4.9295334	total: 4.64s	remaining: 499ms
903:	learn: 4.9275231	total: 4.64s	remaining: 493ms
904:	learn: 4.9238166	total: 4.64s	remaining: 487ms
905:	learn: 4.9230717	total: 4.64s	remaining: 482ms
906:	learn: 4.9195995	total: 4.72s	remaining: 485ms
907:	learn: 4.9149656	total: 4.73s	remaining: 479ms
908:	learn: 4.9118177	total: 4.73s	remaining: 473ms
909:	learn: 4.9075176	total: 4.73s	remaining: 468ms
910:	learn: 4.9034513	total: 4.73s	remaining: 462ms
911:	learn: 4.9002236	total: 4.73s	remaining: 456ms
912:	learn: 4.8983531	total: 4.73s	remaining: 451ms
913:	learn: 4.8920768	total: 4.73s	remaining: 445ms
914:	learn: 4.8891784	total: 4.73s	remaining: 439ms
915:	learn: 4.8875246	total: 4.73s	remaining: 434ms
916:	learn: 4.8872519	total: 4.73s	remaining: 428ms
917:	learn: 4.8834556	total: 4.73s	remaining: 423ms
918:	learn: 4.8820089	total: 4.73s	remaining: 417ms
919:	learn: 4.8780886	total: 4.73s	remaining: 412ms
920:	learn: 4.8772797	total: 4.73s	remaining: 406ms
921:	learn: 4.8745089	total: 4.74s	remaining: 401ms
922:	learn: 4.8739111	total: 4.82s	remaining: 402ms
923:	learn: 4.8725545	total: 4.82s	remaining: 396ms
924:	learn: 4.8664318	total: 4.82s	remaining: 391ms
925:	learn: 4.8640907	total: 4.82s	remaining: 385ms
926:	learn: 4.8635019	total: 4.82s	remaining: 380ms
927:	learn: 4.8605517	total: 4.82s	remaining: 374ms

928:	learn: 4.8577474	total: 4.82s	remaining: 369ms
929:	learn: 4.8521337	total: 4.82s	remaining: 363ms
930:	learn: 4.8492206	total: 4.83s	remaining: 358ms
931:	learn: 4.8452487	total: 4.83s	remaining: 352ms
932:	learn: 4.8404240	total: 4.83s	remaining: 347ms
933:	learn: 4.8379147	total: 4.83s	remaining: 341ms
934:	learn: 4.8357982	total: 4.83s	remaining: 336ms
935:	learn: 4.8355435	total: 4.83s	remaining: 330ms
936:	learn: 4.8311622	total: 4.83s	remaining: 325ms
937:	learn: 4.8287247	total: 4.83s	remaining: 319ms
938:	learn: 4.8260534	total: 4.91s	remaining: 319ms
939:	learn: 4.8234014	total: 4.91s	remaining: 314ms
940:	learn: 4.8201811	total: 4.91s	remaining: 308ms
941:	learn: 4.8153178	total: 4.91s	remaining: 303ms
942:	learn: 4.8117707	total: 4.92s	remaining: 297ms
943:	learn: 4.8068742	total: 4.92s	remaining: 292ms
944:	learn: 4.8000983	total: 4.92s	remaining: 286ms
945:	learn: 4.7953369	total: 4.92s	remaining: 281ms
946:	learn: 4.7936090	total: 4.92s	remaining: 275ms
947:	learn: 4.7909459	total: 4.92s	remaining: 270ms
948:	learn: 4.7880416	total: 4.92s	remaining: 264ms
949:	learn: 4.7852948	total: 4.92s	remaining: 259ms
950:	learn: 4.7800562	total: 4.92s	remaining: 254ms
951:	learn: 4.7782437	total: 4.92s	remaining: 248ms
952:	learn: 4.7781828	total: 4.92s	remaining: 243ms
953:	learn: 4.7748449	total: 4.92s	remaining: 237ms
954:	learn: 4.7733061	total: 4.92s	remaining: 232ms
955:	learn: 4.7688160	total: 5s	remaining: 230ms
956:	learn: 4.7654462	total: 5.01s	remaining: 225ms
957:	learn: 4.7649015	total: 5.01s	remaining: 220ms
958:	learn: 4.7633739	total: 5.01s	remaining: 214ms
959:	learn: 4.7594038	total: 5.01s	remaining: 209ms
960:	learn: 4.7566436	total: 5.01s	remaining: 203ms
961:	learn: 4.7526040	total: 5.01s	remaining: 198ms
962:	learn: 4.7497835	total: 5.01s	remaining: 193ms
963:	learn: 4.7421425	total: 5.01s	remaining: 187ms
964:	learn: 4.7411488	total: 5.01s	remaining: 182ms
965:	learn: 4.7345003	total: 5.01s	remaining: 176ms
966:	learn: 4.7268488	total: 5.01s	remaining: 171ms
967:	learn: 4.7242264	total: 5.01s	remaining: 166ms
968:	learn: 4.7240769	total: 5.01s	remaining: 160ms
969:	learn: 4.7191695	total: 5.02s	remaining: 155ms
970:	learn: 4.7177394	total: 5.02s	remaining: 150ms
971:	learn: 4.7158175	total: 5.02s	remaining: 145ms
972:	learn: 4.7135878	total: 5.02s	remaining: 139ms
973:	learn: 4.7065532	total: 5.1s	remaining: 136ms
974:	learn: 4.6979639	total: 5.1s	remaining: 131ms
975:	learn: 4.6940403	total: 5.1s	remaining: 125ms
976:	learn: 4.6925514	total: 5.1s	remaining: 120ms
977:	learn: 4.6903006	total: 5.1s	remaining: 115ms
978:	learn: 4.6867923	total: 5.1s	remaining: 109ms
979:	learn: 4.6849403	total: 5.1s	remaining: 104ms
980:	learn: 4.6784580	total: 5.1s	remaining: 98.9ms
981:	learn: 4.6756783	total: 5.1s	remaining: 93.6ms
982:	learn: 4.6711591	total: 5.11s	remaining: 88.3ms
983:	learn: 4.6706153	total: 5.11s	remaining: 83ms
984:	learn: 4.6694377	total: 5.11s	remaining: 77.8ms
985:	learn: 4.6691205	total: 5.11s	remaining: 72.5ms
986:	learn: 4.6669066	total: 5.11s	remaining: 67.3ms
987:	learn: 4.6622869	total: 5.11s	remaining: 62ms
988:	learn: 4.6586502	total: 5.11s	remaining: 56.9ms

989:	learn: 4.6580612	total: 5.12s	remaining: 51.7ms
990:	learn: 4.6559163	total: 5.19s	remaining: 47.2ms
991:	learn: 4.6515251	total: 5.19s	remaining: 41.9ms
992:	learn: 4.6488861	total: 5.19s	remaining: 36.6ms
993:	learn: 4.6460574	total: 5.2s	remaining: 31.4ms
994:	learn: 4.6416645	total: 5.2s	remaining: 26.1ms
995:	learn: 4.6403512	total: 5.2s	remaining: 20.9ms
996:	learn: 4.6367510	total: 5.2s	remaining: 15.6ms
997:	learn: 4.6325273	total: 5.2s	remaining: 10.4ms
998:	learn: 4.6311934	total: 5.2s	remaining: 5.2ms
999:	learn: 4.6273801	total: 5.2s	remaining: 0us
0:	learn: 20.2420715	total: 909us	remaining: 908ms
1:	learn: 20.0308370	total: 1.73ms	remaining: 861ms
2:	learn: 19.8325081	total: 2.36ms	remaining: 786ms
3:	learn: 19.6813400	total: 3.05ms	remaining: 761ms
4:	learn: 19.4972911	total: 3.66ms	remaining: 728ms
5:	learn: 19.3178698	total: 4.3ms	remaining: 712ms
6:	learn: 19.1427909	total: 4.96ms	remaining: 704ms
7:	learn: 18.9777475	total: 5.59ms	remaining: 693ms
8:	learn: 18.8084160	total: 6.21ms	remaining: 684ms
9:	learn: 18.6517775	total: 6.88ms	remaining: 681ms
10:	learn: 18.5073179	total: 7.51ms	remaining: 675ms
11:	learn: 18.3690573	total: 8.17ms	remaining: 673ms
12:	learn: 18.2364670	total: 8.76ms	remaining: 665ms
13:	learn: 17.8976289	total: 9.44ms	remaining: 665ms
14:	learn: 17.7728732	total: 10.1ms	remaining: 661ms
15:	learn: 17.6556005	total: 40.6ms	remaining: 2.5s
16:	learn: 17.5399285	total: 41.5ms	remaining: 2.4s
17:	learn: 17.4286592	total: 42.2ms	remaining: 2.3s
18:	learn: 17.0628246	total: 42.8ms	remaining: 2.21s
19:	learn: 16.9633614	total: 43.5ms	remaining: 2.13s
20:	learn: 16.8464719	total: 44.3ms	remaining: 2.06s
21:	learn: 16.7435251	total: 44.9ms	remaining: 2s
22:	learn: 16.4442727	total: 45.6ms	remaining: 1.94s
23:	learn: 16.3572675	total: 46.3ms	remaining: 1.88s
24:	learn: 16.2744345	total: 46.9ms	remaining: 1.83s
25:	learn: 16.1963972	total: 47.6ms	remaining: 1.78s
26:	learn: 15.9237608	total: 48.3ms	remaining: 1.74s
27:	learn: 15.8450175	total: 49ms	remaining: 1.7s
28:	learn: 15.7758845	total: 49.6ms	remaining: 1.66s
29:	learn: 15.5691015	total: 50.3ms	remaining: 1.63s
30:	learn: 15.3080816	total: 51.2ms	remaining: 1.6s
31:	learn: 15.2418902	total: 52.4ms	remaining: 1.59s
32:	learn: 15.1796168	total: 134ms	remaining: 3.93s
33:	learn: 15.1161012	total: 135ms	remaining: 3.83s
34:	learn: 15.0454127	total: 136ms	remaining: 3.74s
35:	learn: 14.8315619	total: 136ms	remaining: 3.65s
36:	learn: 14.7771715	total: 137ms	remaining: 3.56s
37:	learn: 14.7238311	total: 138ms	remaining: 3.48s
38:	learn: 14.6470903	total: 138ms	remaining: 3.4s
39:	learn: 14.5728537	total: 139ms	remaining: 3.33s
40:	learn: 14.4393640	total: 140ms	remaining: 3.26s
41:	learn: 14.2927395	total: 140ms	remaining: 3.2s
42:	learn: 14.0951327	total: 141ms	remaining: 3.13s
43:	learn: 13.9657055	total: 142ms	remaining: 3.08s
44:	learn: 13.8820714	total: 142ms	remaining: 3.02s
45:	learn: 13.8220407	total: 143ms	remaining: 2.96s
46:	learn: 13.6828312	total: 143ms	remaining: 2.91s
47:	learn: 13.6209345	total: 144ms	remaining: 2.86s
48:	learn: 13.5845578	total: 230ms	remaining: 4.47s
49:	learn: 13.5423676	total: 231ms	remaining: 4.4s

50:	learn: 13.5071030	total: 232ms	remaining: 4.32s
51:	learn: 13.3802422	total: 233ms	remaining: 4.24s
52:	learn: 13.2934755	total: 233ms	remaining: 4.17s
53:	learn: 13.2607336	total: 235ms	remaining: 4.12s
54:	learn: 13.1502781	total: 236ms	remaining: 4.06s
55:	learn: 13.1242415	total: 237ms	remaining: 3.99s
56:	learn: 13.0919963	total: 238ms	remaining: 3.93s
57:	learn: 12.9846674	total: 238ms	remaining: 3.87s
58:	learn: 12.8437549	total: 239ms	remaining: 3.81s
59:	learn: 12.8177274	total: 240ms	remaining: 3.76s
60:	learn: 12.7322637	total: 241ms	remaining: 3.7s
61:	learn: 12.7097797	total: 241ms	remaining: 3.65s
62:	learn: 12.6732377	total: 323ms	remaining: 4.8s
63:	learn: 12.6438138	total: 323ms	remaining: 4.73s
64:	learn: 12.5678721	total: 324ms	remaining: 4.66s
65:	learn: 12.5320125	total: 326ms	remaining: 4.61s
66:	learn: 12.5124632	total: 326ms	remaining: 4.55s
67:	learn: 12.4841108	total: 327ms	remaining: 4.48s
68:	learn: 12.4660575	total: 328ms	remaining: 4.42s
69:	learn: 12.4442557	total: 329ms	remaining: 4.37s
70:	learn: 12.3742692	total: 329ms	remaining: 4.31s
71:	learn: 12.3401759	total: 330ms	remaining: 4.25s
72:	learn: 12.3103767	total: 331ms	remaining: 4.2s
73:	learn: 12.2848267	total: 332ms	remaining: 4.15s
74:	learn: 12.2460856	total: 332ms	remaining: 4.1s
75:	learn: 12.2127643	total: 333ms	remaining: 4.05s
76:	learn: 12.1668428	total: 334ms	remaining: 4s
77:	learn: 12.1484447	total: 417ms	remaining: 4.93s
78:	learn: 12.0316464	total: 418ms	remaining: 4.87s
79:	learn: 11.9963356	total: 418ms	remaining: 4.81s
80:	learn: 11.9829864	total: 419ms	remaining: 4.75s
81:	learn: 11.9700322	total: 420ms	remaining: 4.71s
82:	learn: 11.9270470	total: 421ms	remaining: 4.65s
83:	learn: 11.9141327	total: 422ms	remaining: 4.6s
84:	learn: 11.8386300	total: 423ms	remaining: 4.55s
85:	learn: 11.8232602	total: 423ms	remaining: 4.5s
86:	learn: 11.8039744	total: 424ms	remaining: 4.45s
87:	learn: 11.7937393	total: 425ms	remaining: 4.41s
88:	learn: 11.7689206	total: 426ms	remaining: 4.36s
89:	learn: 11.6812098	total: 427ms	remaining: 4.31s
90:	learn: 11.6653851	total: 427ms	remaining: 4.27s
91:	learn: 11.6315669	total: 428ms	remaining: 4.22s
92:	learn: 11.6218460	total: 434ms	remaining: 4.23s
93:	learn: 11.5716852	total: 435ms	remaining: 4.19s
94:	learn: 11.4887885	total: 511ms	remaining: 4.86s
95:	learn: 11.4802288	total: 512ms	remaining: 4.82s
96:	learn: 11.4720889	total: 512ms	remaining: 4.77s
97:	learn: 11.4560735	total: 513ms	remaining: 4.72s
98:	learn: 11.4484506	total: 513ms	remaining: 4.67s
99:	learn: 11.4341522	total: 514ms	remaining: 4.63s
100:	learn: 11.3570779	total: 515ms	remaining: 4.58s
101:	learn: 11.3218201	total: 516ms	remaining: 4.54s
102:	learn: 11.2859082	total: 516ms	remaining: 4.5s
103:	learn: 11.2776268	total: 517ms	remaining: 4.45s
104:	learn: 11.2405299	total: 518ms	remaining: 4.41s
105:	learn: 11.1758594	total: 518ms	remaining: 4.37s
106:	learn: 11.1428698	total: 519ms	remaining: 4.33s
107:	learn: 11.0953106	total: 520ms	remaining: 4.29s
108:	learn: 11.0768666	total: 520ms	remaining: 4.25s
109:	learn: 11.0420893	total: 605ms	remaining: 4.89s
110:	learn: 11.0356792	total: 606ms	remaining: 4.85s

111:	learn: 11.0290132	total: 606ms	remaining: 4.81s
112:	learn: 11.0230146	total: 607ms	remaining: 4.76s
113:	learn: 11.0174742	total: 607ms	remaining: 4.72s
114:	learn: 10.9726071	total: 608ms	remaining: 4.68s
115:	learn: 10.9421074	total: 609ms	remaining: 4.64s
116:	learn: 10.9125695	total: 610ms	remaining: 4.6s
117:	learn: 10.9068711	total: 611ms	remaining: 4.57s
118:	learn: 10.8596259	total: 611ms	remaining: 4.53s
119:	learn: 10.8270587	total: 612ms	remaining: 4.49s
120:	learn: 10.8005968	total: 613ms	remaining: 4.45s
121:	learn: 10.7663846	total: 613ms	remaining: 4.42s
122:	learn: 10.7598231	total: 614ms	remaining: 4.38s
123:	learn: 10.7545417	total: 620ms	remaining: 4.38s
124:	learn: 10.7270189	total: 621ms	remaining: 4.34s
125:	learn: 10.6943979	total: 699ms	remaining: 4.85s
126:	learn: 10.6635952	total: 700ms	remaining: 4.81s
127:	learn: 10.6508714	total: 700ms	remaining: 4.77s
128:	learn: 10.6253542	total: 701ms	remaining: 4.73s
129:	learn: 10.5929049	total: 702ms	remaining: 4.7s
130:	learn: 10.5670440	total: 702ms	remaining: 4.66s
131:	learn: 10.5594420	total: 703ms	remaining: 4.62s
132:	learn: 10.5082801	total: 704ms	remaining: 4.59s
133:	learn: 10.4858456	total: 704ms	remaining: 4.55s
134:	learn: 10.4700006	total: 705ms	remaining: 4.52s
135:	learn: 10.4562722	total: 706ms	remaining: 4.48s
136:	learn: 10.4508114	total: 706ms	remaining: 4.45s
137:	learn: 10.4463256	total: 707ms	remaining: 4.42s
138:	learn: 10.4322222	total: 707ms	remaining: 4.38s
139:	learn: 10.4100191	total: 708ms	remaining: 4.35s
140:	learn: 10.3958077	total: 709ms	remaining: 4.32s
141:	learn: 10.3774839	total: 710ms	remaining: 4.29s
142:	learn: 10.3517559	total: 792ms	remaining: 4.75s
143:	learn: 10.3077262	total: 793ms	remaining: 4.71s
144:	learn: 10.2794624	total: 794ms	remaining: 4.68s
145:	learn: 10.2530991	total: 795ms	remaining: 4.65s
146:	learn: 10.2380776	total: 796ms	remaining: 4.62s
147:	learn: 10.1976470	total: 796ms	remaining: 4.58s
148:	learn: 10.1825620	total: 797ms	remaining: 4.55s
149:	learn: 10.1662186	total: 798ms	remaining: 4.52s
150:	learn: 10.1516619	total: 799ms	remaining: 4.49s
151:	learn: 10.1311321	total: 800ms	remaining: 4.46s
152:	learn: 10.0884771	total: 800ms	remaining: 4.43s
153:	learn: 10.0843000	total: 801ms	remaining: 4.4s
154:	learn: 10.0738622	total: 801ms	remaining: 4.37s
155:	learn: 10.0521372	total: 802ms	remaining: 4.34s
156:	learn: 10.0431198	total: 803ms	remaining: 4.31s
157:	learn: 10.0187072	total: 887ms	remaining: 4.72s
158:	learn: 9.9988780	total: 887ms	remaining: 4.69s
159:	learn: 9.9949227	total: 888ms	remaining: 4.66s
160:	learn: 9.9620319	total: 889ms	remaining: 4.63s
161:	learn: 9.9448431	total: 889ms	remaining: 4.6s
162:	learn: 9.9319828	total: 890ms	remaining: 4.57s
163:	learn: 9.9167387	total: 891ms	remaining: 4.54s
164:	learn: 9.9057128	total: 891ms	remaining: 4.51s
165:	learn: 9.8715589	total: 892ms	remaining: 4.48s
166:	learn: 9.8446509	total: 893ms	remaining: 4.45s
167:	learn: 9.8349099	total: 893ms	remaining: 4.42s
168:	learn: 9.8182110	total: 894ms	remaining: 4.4s
169:	learn: 9.7890384	total: 895ms	remaining: 4.37s
170:	learn: 9.7742953	total: 895ms	remaining: 4.34s
171:	learn: 9.7581776	total: 896ms	remaining: 4.31s

172:	learn: 9.7511264	total: 897ms	remaining: 4.29s
173:	learn: 9.7390471	total: 903ms	remaining: 4.28s
174:	learn: 9.7327292	total: 903ms	remaining: 4.26s
175:	learn: 9.7289793	total: 981ms	remaining: 4.59s
176:	learn: 9.7123141	total: 981ms	remaining: 4.56s
177:	learn: 9.6917377	total: 982ms	remaining: 4.53s
178:	learn: 9.6687449	total: 984ms	remaining: 4.51s
179:	learn: 9.6582059	total: 985ms	remaining: 4.49s
180:	learn: 9.6498574	total: 985ms	remaining: 4.46s
181:	learn: 9.6463007	total: 986ms	remaining: 4.43s
182:	learn: 9.6332019	total: 986ms	remaining: 4.4s
183:	learn: 9.6227919	total: 988ms	remaining: 4.38s
184:	learn: 9.6037918	total: 989ms	remaining: 4.36s
185:	learn: 9.5927684	total: 990ms	remaining: 4.33s
186:	learn: 9.5786625	total: 990ms	remaining: 4.31s
187:	learn: 9.5677498	total: 991ms	remaining: 4.28s
188:	learn: 9.5626368	total: 997ms	remaining: 4.28s
189:	learn: 9.5505799	total: 998ms	remaining: 4.25s
190:	learn: 9.5428491	total: 1.07s	remaining: 4.55s
191:	learn: 9.5198126	total: 1.07s	remaining: 4.53s
192:	learn: 9.5067712	total: 1.08s	remaining: 4.5s
193:	learn: 9.5018082	total: 1.08s	remaining: 4.47s
194:	learn: 9.4880844	total: 1.08s	remaining: 4.45s
195:	learn: 9.4782246	total: 1.08s	remaining: 4.42s
196:	learn: 9.4676327	total: 1.08s	remaining: 4.4s
197:	learn: 9.4565140	total: 1.08s	remaining: 4.38s
198:	learn: 9.4502795	total: 1.08s	remaining: 4.35s
199:	learn: 9.4382961	total: 1.08s	remaining: 4.33s
200:	learn: 9.4296111	total: 1.08s	remaining: 4.3s
201:	learn: 9.4173545	total: 1.08s	remaining: 4.28s
202:	learn: 9.4141044	total: 1.08s	remaining: 4.25s
203:	learn: 9.4109250	total: 1.09s	remaining: 4.25s
204:	learn: 9.4021904	total: 1.09s	remaining: 4.23s
205:	learn: 9.3928218	total: 1.17s	remaining: 4.51s
206:	learn: 9.3890100	total: 1.17s	remaining: 4.48s
207:	learn: 9.3792756	total: 1.17s	remaining: 4.46s
208:	learn: 9.3767065	total: 1.17s	remaining: 4.43s
209:	learn: 9.3665992	total: 1.17s	remaining: 4.41s
210:	learn: 9.3607650	total: 1.17s	remaining: 4.39s
211:	learn: 9.3457390	total: 1.17s	remaining: 4.36s
212:	learn: 9.3324537	total: 1.17s	remaining: 4.34s
213:	learn: 9.3241675	total: 1.18s	remaining: 4.32s
214:	learn: 9.3048287	total: 1.18s	remaining: 4.29s
215:	learn: 9.2973383	total: 1.18s	remaining: 4.27s
216:	learn: 9.2845720	total: 1.18s	remaining: 4.25s
217:	learn: 9.2779529	total: 1.18s	remaining: 4.23s
218:	learn: 9.2750136	total: 1.18s	remaining: 4.21s
219:	learn: 9.2676287	total: 1.19s	remaining: 4.2s
220:	learn: 9.2617032	total: 1.26s	remaining: 4.45s
221:	learn: 9.2489052	total: 1.26s	remaining: 4.43s
222:	learn: 9.2457481	total: 1.26s	remaining: 4.41s
223:	learn: 9.2355211	total: 1.27s	remaining: 4.39s
224:	learn: 9.2327118	total: 1.27s	remaining: 4.36s
225:	learn: 9.2251437	total: 1.27s	remaining: 4.34s
226:	learn: 9.2059824	total: 1.27s	remaining: 4.32s
227:	learn: 9.1964555	total: 1.27s	remaining: 4.3s
228:	learn: 9.1859435	total: 1.27s	remaining: 4.28s
229:	learn: 9.1832609	total: 1.27s	remaining: 4.25s
230:	learn: 9.1639275	total: 1.27s	remaining: 4.23s
231:	learn: 9.1527147	total: 1.27s	remaining: 4.21s
232:	learn: 9.1429082	total: 1.27s	remaining: 4.19s

233:	learn: 9.1341307	total: 1.27s	remaining: 4.17s
234:	learn: 9.1251556	total: 1.27s	remaining: 4.15s
235:	learn: 9.1097378	total: 1.27s	remaining: 4.13s
236:	learn: 9.1049685	total: 1.27s	remaining: 4.11s
237:	learn: 9.1014393	total: 1.36s	remaining: 4.34s
238:	learn: 9.0988926	total: 1.36s	remaining: 4.32s
239:	learn: 9.0789929	total: 1.36s	remaining: 4.3s
240:	learn: 9.0680653	total: 1.36s	remaining: 4.28s
241:	learn: 9.0537067	total: 1.36s	remaining: 4.26s
242:	learn: 9.0443721	total: 1.36s	remaining: 4.24s
243:	learn: 9.0418870	total: 1.36s	remaining: 4.21s
244:	learn: 9.0274496	total: 1.36s	remaining: 4.2s
245:	learn: 9.0131354	total: 1.36s	remaining: 4.17s
246:	learn: 8.9906311	total: 1.36s	remaining: 4.15s
247:	learn: 8.9804728	total: 1.36s	remaining: 4.13s
248:	learn: 8.9780475	total: 1.36s	remaining: 4.11s
249:	learn: 8.9752814	total: 1.36s	remaining: 4.09s
250:	learn: 8.9561809	total: 1.36s	remaining: 4.07s
251:	learn: 8.9502214	total: 1.37s	remaining: 4.06s
252:	learn: 8.9408290	total: 1.37s	remaining: 4.04s
253:	learn: 8.9275579	total: 1.37s	remaining: 4.02s
254:	learn: 8.9224314	total: 1.45s	remaining: 4.24s
255:	learn: 8.9201049	total: 1.45s	remaining: 4.21s
256:	learn: 8.9144296	total: 1.45s	remaining: 4.2s
257:	learn: 8.9114550	total: 1.45s	remaining: 4.17s
258:	learn: 8.9011415	total: 1.45s	remaining: 4.16s
259:	learn: 8.8949369	total: 1.45s	remaining: 4.14s
260:	learn: 8.8803278	total: 1.46s	remaining: 4.13s
261:	learn: 8.8726416	total: 1.46s	remaining: 4.11s
262:	learn: 8.8676606	total: 1.46s	remaining: 4.09s
263:	learn: 8.8622776	total: 1.46s	remaining: 4.07s
264:	learn: 8.8482427	total: 1.46s	remaining: 4.05s
265:	learn: 8.8418468	total: 1.46s	remaining: 4.03s
266:	learn: 8.8387250	total: 1.46s	remaining: 4.01s
267:	learn: 8.8347139	total: 1.46s	remaining: 4s
268:	learn: 8.8297673	total: 1.46s	remaining: 3.98s
269:	learn: 8.8252548	total: 1.46s	remaining: 3.96s
270:	learn: 8.8190230	total: 1.54s	remaining: 4.15s
271:	learn: 8.8126257	total: 1.54s	remaining: 4.13s
272:	learn: 8.8047927	total: 1.54s	remaining: 4.11s
273:	learn: 8.7773922	total: 1.54s	remaining: 4.09s
274:	learn: 8.7628774	total: 1.55s	remaining: 4.08s
275:	learn: 8.7503645	total: 1.55s	remaining: 4.06s
276:	learn: 8.7414124	total: 1.55s	remaining: 4.04s
277:	learn: 8.7279273	total: 1.55s	remaining: 4.02s
278:	learn: 8.7246501	total: 1.55s	remaining: 4s
279:	learn: 8.7211916	total: 1.55s	remaining: 3.98s
280:	learn: 8.7000166	total: 1.55s	remaining: 3.97s
281:	learn: 8.6978260	total: 1.55s	remaining: 3.95s
282:	learn: 8.6957016	total: 1.55s	remaining: 3.93s
283:	learn: 8.6887663	total: 1.55s	remaining: 3.91s
284:	learn: 8.6809097	total: 1.55s	remaining: 3.9s
285:	learn: 8.6763662	total: 1.55s	remaining: 3.88s
286:	learn: 8.6709823	total: 1.55s	remaining: 3.86s
287:	learn: 8.6688820	total: 1.55s	remaining: 3.85s
288:	learn: 8.6567990	total: 1.64s	remaining: 4.03s
289:	learn: 8.6403086	total: 1.64s	remaining: 4.01s
290:	learn: 8.6210386	total: 1.64s	remaining: 3.99s
291:	learn: 8.6149668	total: 1.64s	remaining: 3.97s
292:	learn: 8.6033299	total: 1.64s	remaining: 3.96s
293:	learn: 8.5943331	total: 1.64s	remaining: 3.94s

294:	learn: 8.5860148	total: 1.64s	remaining: 3.92s
295:	learn: 8.5688265	total: 1.64s	remaining: 3.9s
296:	learn: 8.5586118	total: 1.64s	remaining: 3.89s
297:	learn: 8.5423409	total: 1.64s	remaining: 3.87s
298:	learn: 8.5328751	total: 1.64s	remaining: 3.85s
299:	learn: 8.5228830	total: 1.64s	remaining: 3.84s
300:	learn: 8.5134757	total: 1.64s	remaining: 3.82s
301:	learn: 8.5100995	total: 1.65s	remaining: 3.8s
302:	learn: 8.5050112	total: 1.73s	remaining: 3.98s
303:	learn: 8.4949721	total: 1.73s	remaining: 3.96s
304:	learn: 8.4908626	total: 1.73s	remaining: 3.95s
305:	learn: 8.4782115	total: 1.73s	remaining: 3.93s
306:	learn: 8.4703453	total: 1.73s	remaining: 3.91s
307:	learn: 8.4682983	total: 1.73s	remaining: 3.9s
308:	learn: 8.4618223	total: 1.74s	remaining: 3.88s
309:	learn: 8.4596863	total: 1.74s	remaining: 3.86s
310:	learn: 8.4544880	total: 1.74s	remaining: 3.85s
311:	learn: 8.4507748	total: 1.74s	remaining: 3.83s
312:	learn: 8.4450769	total: 1.74s	remaining: 3.81s
313:	learn: 8.4312433	total: 1.74s	remaining: 3.8s
314:	learn: 8.4293419	total: 1.74s	remaining: 3.78s
315:	learn: 8.4213716	total: 1.74s	remaining: 3.77s
316:	learn: 8.4086035	total: 1.74s	remaining: 3.75s
317:	learn: 8.4014959	total: 1.75s	remaining: 3.74s
318:	learn: 8.3836804	total: 1.82s	remaining: 3.9s
319:	learn: 8.3775984	total: 1.83s	remaining: 3.88s
320:	learn: 8.3732870	total: 1.83s	remaining: 3.86s
321:	learn: 8.3672777	total: 1.83s	remaining: 3.85s
322:	learn: 8.3508868	total: 1.83s	remaining: 3.83s
323:	learn: 8.3466348	total: 1.83s	remaining: 3.81s
324:	learn: 8.3355589	total: 1.83s	remaining: 3.8s
325:	learn: 8.3337515	total: 1.83s	remaining: 3.78s
326:	learn: 8.3265345	total: 1.83s	remaining: 3.77s
327:	learn: 8.3180755	total: 1.83s	remaining: 3.75s
328:	learn: 8.3074838	total: 1.83s	remaining: 3.74s
329:	learn: 8.2947306	total: 1.83s	remaining: 3.72s
330:	learn: 8.2926754	total: 1.83s	remaining: 3.71s
331:	learn: 8.2864614	total: 1.83s	remaining: 3.69s
332:	learn: 8.2734964	total: 1.83s	remaining: 3.67s
333:	learn: 8.2691786	total: 1.92s	remaining: 3.83s
334:	learn: 8.2567550	total: 1.92s	remaining: 3.81s
335:	learn: 8.2425014	total: 1.92s	remaining: 3.79s
336:	learn: 8.2312881	total: 1.92s	remaining: 3.78s
337:	learn: 8.2243759	total: 1.92s	remaining: 3.76s
338:	learn: 8.2229500	total: 1.92s	remaining: 3.75s
339:	learn: 8.2091280	total: 1.92s	remaining: 3.73s
340:	learn: 8.2035673	total: 1.92s	remaining: 3.72s
341:	learn: 8.2002718	total: 1.92s	remaining: 3.7s
342:	learn: 8.1877737	total: 1.93s	remaining: 3.69s
343:	learn: 8.1812985	total: 1.93s	remaining: 3.67s
344:	learn: 8.1746986	total: 1.93s	remaining: 3.66s
345:	learn: 8.1644777	total: 1.93s	remaining: 3.64s
346:	learn: 8.1558602	total: 1.93s	remaining: 3.63s
347:	learn: 8.1535196	total: 1.93s	remaining: 3.61s
348:	learn: 8.1507960	total: 2.01s	remaining: 3.76s
349:	learn: 8.1469527	total: 2.01s	remaining: 3.74s
350:	learn: 8.1412571	total: 2.02s	remaining: 3.73s
351:	learn: 8.1381294	total: 2.02s	remaining: 3.71s
352:	learn: 8.1280658	total: 2.02s	remaining: 3.7s
353:	learn: 8.1047848	total: 2.02s	remaining: 3.68s
354:	learn: 8.0982033	total: 2.02s	remaining: 3.67s

355:	learn: 8.0841230	total: 2.02s	remaining: 3.65s
356:	learn: 8.0819539	total: 2.02s	remaining: 3.64s
357:	learn: 8.0676300	total: 2.02s	remaining: 3.62s
358:	learn: 8.0631123	total: 2.02s	remaining: 3.61s
359:	learn: 8.0528122	total: 2.02s	remaining: 3.59s
360:	learn: 8.0436875	total: 2.02s	remaining: 3.58s
361:	learn: 8.0424905	total: 2.02s	remaining: 3.56s
362:	learn: 8.0311690	total: 2.02s	remaining: 3.55s
363:	learn: 8.0169894	total: 2.02s	remaining: 3.54s
364:	learn: 8.0075605	total: 2.11s	remaining: 3.67s
365:	learn: 7.9975238	total: 2.11s	remaining: 3.65s
366:	learn: 7.9914197	total: 2.11s	remaining: 3.64s
367:	learn: 7.9810113	total: 2.11s	remaining: 3.62s
368:	learn: 7.9787510	total: 2.11s	remaining: 3.61s
369:	learn: 7.9699741	total: 2.11s	remaining: 3.6s
370:	learn: 7.9605844	total: 2.11s	remaining: 3.58s
371:	learn: 7.9563477	total: 2.11s	remaining: 3.57s
372:	learn: 7.9548873	total: 2.11s	remaining: 3.55s
373:	learn: 7.9454827	total: 2.11s	remaining: 3.54s
374:	learn: 7.9423741	total: 2.11s	remaining: 3.52s
375:	learn: 7.9402252	total: 2.12s	remaining: 3.51s
376:	learn: 7.9349469	total: 2.12s	remaining: 3.5s
377:	learn: 7.9252800	total: 2.12s	remaining: 3.48s
378:	learn: 7.9226831	total: 2.12s	remaining: 3.47s
379:	learn: 7.9193334	total: 2.12s	remaining: 3.46s
380:	learn: 7.9174310	total: 2.12s	remaining: 3.45s
381:	learn: 7.9107374	total: 2.2s	remaining: 3.56s
382:	learn: 7.9086776	total: 2.2s	remaining: 3.55s
383:	learn: 7.9066991	total: 2.2s	remaining: 3.53s
384:	learn: 7.8917755	total: 2.2s	remaining: 3.52s
385:	learn: 7.8868263	total: 2.2s	remaining: 3.51s
386:	learn: 7.8811162	total: 2.21s	remaining: 3.49s
387:	learn: 7.8770707	total: 2.21s	remaining: 3.48s
388:	learn: 7.8681174	total: 2.21s	remaining: 3.47s
389:	learn: 7.8603327	total: 2.21s	remaining: 3.45s
390:	learn: 7.8563250	total: 2.21s	remaining: 3.44s
391:	learn: 7.8463876	total: 2.21s	remaining: 3.43s
392:	learn: 7.8423591	total: 2.21s	remaining: 3.41s
393:	learn: 7.8326914	total: 2.21s	remaining: 3.4s
394:	learn: 7.8290603	total: 2.21s	remaining: 3.39s
395:	learn: 7.8258010	total: 2.21s	remaining: 3.37s
396:	learn: 7.8235049	total: 2.21s	remaining: 3.36s
397:	learn: 7.8206289	total: 2.29s	remaining: 3.47s
398:	learn: 7.8142170	total: 2.29s	remaining: 3.46s
399:	learn: 7.8097596	total: 2.29s	remaining: 3.44s
400:	learn: 7.8077184	total: 2.3s	remaining: 3.43s
401:	learn: 7.8046751	total: 2.3s	remaining: 3.42s
402:	learn: 7.8032144	total: 2.3s	remaining: 3.4s
403:	learn: 7.7875342	total: 2.3s	remaining: 3.39s
404:	learn: 7.7813088	total: 2.3s	remaining: 3.38s
405:	learn: 7.7685208	total: 2.3s	remaining: 3.36s
406:	learn: 7.7587319	total: 2.3s	remaining: 3.35s
407:	learn: 7.7548153	total: 2.3s	remaining: 3.34s
408:	learn: 7.7438539	total: 2.3s	remaining: 3.33s
409:	learn: 7.7409486	total: 2.3s	remaining: 3.31s
410:	learn: 7.7307580	total: 2.3s	remaining: 3.3s
411:	learn: 7.7234513	total: 2.3s	remaining: 3.29s
412:	learn: 7.7119066	total: 2.3s	remaining: 3.27s
413:	learn: 7.7097846	total: 2.4s	remaining: 3.39s
414:	learn: 7.7084697	total: 2.4s	remaining: 3.38s
415:	learn: 7.7070200	total: 2.4s	remaining: 3.37s

416:	learn: 7.6949462	total: 2.4s	remaining: 3.35s
417:	learn: 7.6860100	total: 2.4s	remaining: 3.34s
418:	learn: 7.6796090	total: 2.4s	remaining: 3.33s
419:	learn: 7.6720739	total: 2.4s	remaining: 3.32s
420:	learn: 7.6680525	total: 2.4s	remaining: 3.3s
421:	learn: 7.6575890	total: 2.4s	remaining: 3.29s
422:	learn: 7.6486595	total: 2.4s	remaining: 3.28s
423:	learn: 7.6468564	total: 2.4s	remaining: 3.27s
424:	learn: 7.6325797	total: 2.41s	remaining: 3.25s
425:	learn: 7.6302428	total: 2.41s	remaining: 3.24s
426:	learn: 7.6276670	total: 2.41s	remaining: 3.23s
427:	learn: 7.6256285	total: 2.41s	remaining: 3.22s
428:	learn: 7.6201231	total: 2.48s	remaining: 3.3s
429:	learn: 7.6109552	total: 2.48s	remaining: 3.29s
430:	learn: 7.5999189	total: 2.48s	remaining: 3.28s
431:	learn: 7.5896763	total: 2.48s	remaining: 3.27s
432:	learn: 7.5766438	total: 2.48s	remaining: 3.25s
433:	learn: 7.5642431	total: 2.49s	remaining: 3.24s
434:	learn: 7.5628435	total: 2.49s	remaining: 3.23s
435:	learn: 7.5573072	total: 2.49s	remaining: 3.22s
436:	learn: 7.5510793	total: 2.49s	remaining: 3.21s
437:	learn: 7.5480153	total: 2.49s	remaining: 3.19s
438:	learn: 7.5391425	total: 2.49s	remaining: 3.18s
439:	learn: 7.5377421	total: 2.49s	remaining: 3.17s
440:	learn: 7.5326429	total: 2.49s	remaining: 3.16s
441:	learn: 7.5265249	total: 2.49s	remaining: 3.15s
442:	learn: 7.5065690	total: 2.49s	remaining: 3.13s
443:	learn: 7.4911479	total: 2.49s	remaining: 3.12s
444:	learn: 7.4889537	total: 2.5s	remaining: 3.11s
445:	learn: 7.4855258	total: 2.58s	remaining: 3.2s
446:	learn: 7.4786599	total: 2.58s	remaining: 3.19s
447:	learn: 7.4724916	total: 2.58s	remaining: 3.18s
448:	learn: 7.4619038	total: 2.58s	remaining: 3.16s
449:	learn: 7.4594350	total: 2.58s	remaining: 3.15s
450:	learn: 7.4579220	total: 2.58s	remaining: 3.14s
451:	learn: 7.4550318	total: 2.58s	remaining: 3.13s
452:	learn: 7.4446332	total: 2.58s	remaining: 3.12s
453:	learn: 7.4377508	total: 2.58s	remaining: 3.11s
454:	learn: 7.4218512	total: 2.59s	remaining: 3.1s
455:	learn: 7.4128359	total: 2.59s	remaining: 3.09s
456:	learn: 7.4036805	total: 2.59s	remaining: 3.07s
457:	learn: 7.3953364	total: 2.59s	remaining: 3.06s
458:	learn: 7.3845057	total: 2.59s	remaining: 3.06s
459:	learn: 7.3746791	total: 2.6s	remaining: 3.05s
460:	learn: 7.3594599	total: 2.67s	remaining: 3.12s
461:	learn: 7.3509845	total: 2.67s	remaining: 3.11s
462:	learn: 7.3442680	total: 2.67s	remaining: 3.1s
463:	learn: 7.3410462	total: 2.67s	remaining: 3.09s
464:	learn: 7.3297431	total: 2.67s	remaining: 3.08s
465:	learn: 7.3228299	total: 2.67s	remaining: 3.06s
466:	learn: 7.3216459	total: 2.67s	remaining: 3.05s
467:	learn: 7.3159123	total: 2.67s	remaining: 3.04s
468:	learn: 7.3144169	total: 2.68s	remaining: 3.03s
469:	learn: 7.3042942	total: 2.68s	remaining: 3.02s
470:	learn: 7.2968874	total: 2.68s	remaining: 3.01s
471:	learn: 7.2933264	total: 2.68s	remaining: 3s
472:	learn: 7.2889735	total: 2.68s	remaining: 2.98s
473:	learn: 7.2877205	total: 2.68s	remaining: 2.97s
474:	learn: 7.2833597	total: 2.68s	remaining: 2.96s
475:	learn: 7.2812982	total: 2.68s	remaining: 2.95s
476:	learn: 7.2758722	total: 2.76s	remaining: 3.03s

477:	learn: 7.2675224	total: 2.76s	remaining: 3.02s
478:	learn: 7.2621261	total: 2.77s	remaining: 3.01s
479:	learn: 7.2601123	total: 2.77s	remaining: 3s
480:	learn: 7.2522063	total: 2.77s	remaining: 2.98s
481:	learn: 7.2454629	total: 2.77s	remaining: 2.97s
482:	learn: 7.2341193	total: 2.77s	remaining: 2.96s
483:	learn: 7.2290829	total: 2.77s	remaining: 2.95s
484:	learn: 7.2235384	total: 2.77s	remaining: 2.94s
485:	learn: 7.2196648	total: 2.77s	remaining: 2.93s
486:	learn: 7.2164163	total: 2.77s	remaining: 2.92s
487:	learn: 7.2128029	total: 2.77s	remaining: 2.91s
488:	learn: 7.2083547	total: 2.77s	remaining: 2.9s
489:	learn: 7.1998838	total: 2.78s	remaining: 2.89s
490:	learn: 7.1983452	total: 2.78s	remaining: 2.88s
491:	learn: 7.1959725	total: 2.86s	remaining: 2.95s
492:	learn: 7.1893291	total: 2.86s	remaining: 2.94s
493:	learn: 7.1831567	total: 2.86s	remaining: 2.93s
494:	learn: 7.1748443	total: 2.86s	remaining: 2.92s
495:	learn: 7.1713469	total: 2.86s	remaining: 2.91s
496:	learn: 7.1594288	total: 2.86s	remaining: 2.9s
497:	learn: 7.1534808	total: 2.86s	remaining: 2.88s
498:	learn: 7.1456188	total: 2.86s	remaining: 2.87s
499:	learn: 7.1381881	total: 2.86s	remaining: 2.86s
500:	learn: 7.1337180	total: 2.86s	remaining: 2.85s
501:	learn: 7.1266345	total: 2.86s	remaining: 2.84s
502:	learn: 7.0951378	total: 2.87s	remaining: 2.83s
503:	learn: 7.0911655	total: 2.87s	remaining: 2.82s
504:	learn: 7.0813772	total: 2.87s	remaining: 2.81s
505:	learn: 7.0750573	total: 2.87s	remaining: 2.8s
506:	learn: 7.0721679	total: 2.95s	remaining: 2.87s
507:	learn: 7.0652763	total: 2.95s	remaining: 2.86s
508:	learn: 7.0577349	total: 2.95s	remaining: 2.85s
509:	learn: 7.0465752	total: 2.95s	remaining: 2.84s
510:	learn: 7.0452229	total: 2.96s	remaining: 2.83s
511:	learn: 7.0411169	total: 2.96s	remaining: 2.82s
512:	learn: 7.0395992	total: 2.96s	remaining: 2.81s
513:	learn: 7.0328161	total: 2.96s	remaining: 2.8s
514:	learn: 7.0268630	total: 2.96s	remaining: 2.79s
515:	learn: 7.0239135	total: 2.96s	remaining: 2.77s
516:	learn: 7.0217477	total: 2.96s	remaining: 2.77s
517:	learn: 7.0199413	total: 2.96s	remaining: 2.75s
518:	learn: 7.0078270	total: 2.96s	remaining: 2.74s
519:	learn: 6.9992773	total: 2.96s	remaining: 2.73s
520:	learn: 6.9900458	total: 2.96s	remaining: 2.72s
521:	learn: 6.9780855	total: 2.96s	remaining: 2.71s
522:	learn: 6.9740732	total: 3.05s	remaining: 2.78s
523:	learn: 6.9729109	total: 3.05s	remaining: 2.77s
524:	learn: 6.9718324	total: 3.05s	remaining: 2.76s
525:	learn: 6.9651297	total: 3.05s	remaining: 2.75s
526:	learn: 6.9637503	total: 3.05s	remaining: 2.74s
527:	learn: 6.9450688	total: 3.05s	remaining: 2.73s
528:	learn: 6.9435643	total: 3.05s	remaining: 2.72s
529:	learn: 6.9399545	total: 3.05s	remaining: 2.71s
530:	learn: 6.9244698	total: 3.05s	remaining: 2.7s
531:	learn: 6.9151157	total: 3.05s	remaining: 2.69s
532:	learn: 6.9102341	total: 3.05s	remaining: 2.68s
533:	learn: 6.9031938	total: 3.06s	remaining: 2.67s
534:	learn: 6.8970280	total: 3.06s	remaining: 2.66s
535:	learn: 6.8925217	total: 3.06s	remaining: 2.65s
536:	learn: 6.8884739	total: 3.06s	remaining: 2.64s
537:	learn: 6.8845028	total: 3.06s	remaining: 2.63s

538:	learn: 6.8833776	total: 3.14s	remaining: 2.68s
539:	learn: 6.8770702	total: 3.14s	remaining: 2.67s
540:	learn: 6.8751903	total: 3.14s	remaining: 2.66s
541:	learn: 6.8711941	total: 3.14s	remaining: 2.65s
542:	learn: 6.8658693	total: 3.14s	remaining: 2.64s
543:	learn: 6.8614858	total: 3.14s	remaining: 2.63s
544:	learn: 6.8570468	total: 3.14s	remaining: 2.62s
545:	learn: 6.8496868	total: 3.14s	remaining: 2.61s
546:	learn: 6.8405666	total: 3.14s	remaining: 2.6s
547:	learn: 6.8310686	total: 3.15s	remaining: 2.59s
548:	learn: 6.8252166	total: 3.15s	remaining: 2.58s
549:	learn: 6.8189883	total: 3.15s	remaining: 2.57s
550:	learn: 6.8173146	total: 3.15s	remaining: 2.56s
551:	learn: 6.8093013	total: 3.15s	remaining: 2.56s
552:	learn: 6.8054273	total: 3.15s	remaining: 2.54s
553:	learn: 6.7993647	total: 3.15s	remaining: 2.54s
554:	learn: 6.7941444	total: 3.15s	remaining: 2.53s
555:	learn: 6.7869647	total: 3.16s	remaining: 2.52s
556:	learn: 6.7817993	total: 3.23s	remaining: 2.57s
557:	learn: 6.7794133	total: 3.23s	remaining: 2.56s
558:	learn: 6.7722000	total: 3.23s	remaining: 2.55s
559:	learn: 6.7677121	total: 3.23s	remaining: 2.54s
560:	learn: 6.7657247	total: 3.24s	remaining: 2.53s
561:	learn: 6.7544391	total: 3.24s	remaining: 2.52s
562:	learn: 6.7472562	total: 3.24s	remaining: 2.51s
563:	learn: 6.7418994	total: 3.24s	remaining: 2.5s
564:	learn: 6.7408512	total: 3.24s	remaining: 2.49s
565:	learn: 6.7343717	total: 3.24s	remaining: 2.48s
566:	learn: 6.7260127	total: 3.24s	remaining: 2.47s
567:	learn: 6.7235633	total: 3.24s	remaining: 2.46s
568:	learn: 6.7211310	total: 3.24s	remaining: 2.46s
569:	learn: 6.7196341	total: 3.24s	remaining: 2.44s
570:	learn: 6.7155419	total: 3.24s	remaining: 2.44s
571:	learn: 6.7120250	total: 3.25s	remaining: 2.43s
572:	learn: 6.7044252	total: 3.25s	remaining: 2.42s
573:	learn: 6.7034543	total: 3.33s	remaining: 2.47s
574:	learn: 6.6997614	total: 3.33s	remaining: 2.46s
575:	learn: 6.6988805	total: 3.33s	remaining: 2.45s
576:	learn: 6.6973933	total: 3.33s	remaining: 2.44s
577:	learn: 6.6911536	total: 3.33s	remaining: 2.43s
578:	learn: 6.6859414	total: 3.33s	remaining: 2.42s
579:	learn: 6.6791459	total: 3.33s	remaining: 2.41s
580:	learn: 6.6752795	total: 3.33s	remaining: 2.4s
581:	learn: 6.6606884	total: 3.33s	remaining: 2.39s
582:	learn: 6.6518869	total: 3.33s	remaining: 2.38s
583:	learn: 6.6308286	total: 3.33s	remaining: 2.38s
584:	learn: 6.6267118	total: 3.33s	remaining: 2.37s
585:	learn: 6.6195346	total: 3.34s	remaining: 2.36s
586:	learn: 6.6124938	total: 3.34s	remaining: 2.35s
587:	learn: 6.5977205	total: 3.34s	remaining: 2.34s
588:	learn: 6.5950977	total: 3.42s	remaining: 2.39s
589:	learn: 6.5901765	total: 3.42s	remaining: 2.38s
590:	learn: 6.5838433	total: 3.42s	remaining: 2.37s
591:	learn: 6.5741985	total: 3.42s	remaining: 2.36s
592:	learn: 6.5698514	total: 3.42s	remaining: 2.35s
593:	learn: 6.5628887	total: 3.42s	remaining: 2.34s
594:	learn: 6.5584364	total: 3.43s	remaining: 2.33s
595:	learn: 6.5532522	total: 3.43s	remaining: 2.32s
596:	learn: 6.5471932	total: 3.43s	remaining: 2.31s
597:	learn: 6.5427532	total: 3.43s	remaining: 2.31s
598:	learn: 6.5399813	total: 3.43s	remaining: 2.3s

599:	learn: 6.5356812	total: 3.43s	remaining: 2.29s
600:	learn: 6.5346224	total: 3.43s	remaining: 2.28s
601:	learn: 6.5319114	total: 3.43s	remaining: 2.27s
602:	learn: 6.5247876	total: 3.43s	remaining: 2.26s
603:	learn: 6.5201496	total: 3.43s	remaining: 2.25s
604:	learn: 6.5182550	total: 3.43s	remaining: 2.24s
605:	learn: 6.5142853	total: 3.44s	remaining: 2.23s
606:	learn: 6.5079109	total: 3.51s	remaining: 2.27s
607:	learn: 6.5043161	total: 3.52s	remaining: 2.27s
608:	learn: 6.4952485	total: 3.52s	remaining: 2.26s
609:	learn: 6.4830429	total: 3.52s	remaining: 2.25s
610:	learn: 6.4775823	total: 3.52s	remaining: 2.24s
611:	learn: 6.4759511	total: 3.52s	remaining: 2.23s
612:	learn: 6.4711023	total: 3.52s	remaining: 2.22s
613:	learn: 6.4581230	total: 3.52s	remaining: 2.21s
614:	learn: 6.4512879	total: 3.52s	remaining: 2.2s
615:	learn: 6.4412355	total: 3.52s	remaining: 2.19s
616:	learn: 6.4336425	total: 3.52s	remaining: 2.19s
617:	learn: 6.4316133	total: 3.52s	remaining: 2.18s
618:	learn: 6.4275710	total: 3.52s	remaining: 2.17s
619:	learn: 6.4196018	total: 3.52s	remaining: 2.16s
620:	learn: 6.4100697	total: 3.52s	remaining: 2.15s
621:	learn: 6.4063452	total: 3.52s	remaining: 2.14s
622:	learn: 6.4039354	total: 3.53s	remaining: 2.14s
623:	learn: 6.3994837	total: 3.61s	remaining: 2.17s
624:	learn: 6.3963737	total: 3.61s	remaining: 2.16s
625:	learn: 6.3912750	total: 3.61s	remaining: 2.16s
626:	learn: 6.3846293	total: 3.61s	remaining: 2.15s
627:	learn: 6.3750398	total: 3.61s	remaining: 2.14s
628:	learn: 6.3726845	total: 3.61s	remaining: 2.13s
629:	learn: 6.3703011	total: 3.61s	remaining: 2.12s
630:	learn: 6.3653081	total: 3.61s	remaining: 2.11s
631:	learn: 6.3589494	total: 3.61s	remaining: 2.1s
632:	learn: 6.3550185	total: 3.61s	remaining: 2.1s
633:	learn: 6.3539785	total: 3.61s	remaining: 2.09s
634:	learn: 6.3504567	total: 3.62s	remaining: 2.08s
635:	learn: 6.3409493	total: 3.62s	remaining: 2.07s
636:	learn: 6.3395058	total: 3.62s	remaining: 2.06s
637:	learn: 6.3344720	total: 3.62s	remaining: 2.05s
638:	learn: 6.3221795	total: 3.7s	remaining: 2.09s
639:	learn: 6.3152182	total: 3.7s	remaining: 2.08s
640:	learn: 6.3091835	total: 3.7s	remaining: 2.07s
641:	learn: 6.3024391	total: 3.7s	remaining: 2.06s
642:	learn: 6.3009312	total: 3.7s	remaining: 2.06s
643:	learn: 6.2968840	total: 3.7s	remaining: 2.05s
644:	learn: 6.2937679	total: 3.71s	remaining: 2.04s
645:	learn: 6.2839708	total: 3.71s	remaining: 2.03s
646:	learn: 6.2806138	total: 3.71s	remaining: 2.02s
647:	learn: 6.2779359	total: 3.71s	remaining: 2.01s
648:	learn: 6.2714729	total: 3.71s	remaining: 2s
649:	learn: 6.2706160	total: 3.71s	remaining: 2s
650:	learn: 6.2653769	total: 3.71s	remaining: 1.99s
651:	learn: 6.2559373	total: 3.71s	remaining: 1.98s
652:	learn: 6.2484142	total: 3.72s	remaining: 1.97s
653:	learn: 6.2403812	total: 3.8s	remaining: 2.01s
654:	learn: 6.2322127	total: 3.8s	remaining: 2s
655:	learn: 6.2265316	total: 3.8s	remaining: 1.99s
656:	learn: 6.2199904	total: 3.8s	remaining: 1.98s
657:	learn: 6.2131463	total: 3.8s	remaining: 1.97s
658:	learn: 6.2023054	total: 3.8s	remaining: 1.97s
659:	learn: 6.2010324	total: 3.8s	remaining: 1.96s

660:	learn: 6.1981710	total: 3.8s	remaining: 1.95s
661:	learn: 6.1928180	total: 3.8s	remaining: 1.94s
662:	learn: 6.1872864	total: 3.8s	remaining: 1.93s
663:	learn: 6.1858929	total: 3.8s	remaining: 1.92s
664:	learn: 6.1824050	total: 3.8s	remaining: 1.92s
665:	learn: 6.1787176	total: 3.81s	remaining: 1.91s
666:	learn: 6.1720227	total: 3.81s	remaining: 1.9s
667:	learn: 6.1713590	total: 3.81s	remaining: 1.89s
668:	learn: 6.1677404	total: 3.89s	remaining: 1.92s
669:	learn: 6.1639896	total: 3.89s	remaining: 1.92s
670:	learn: 6.1533172	total: 3.89s	remaining: 1.91s
671:	learn: 6.1518340	total: 3.89s	remaining: 1.9s
672:	learn: 6.1507701	total: 3.89s	remaining: 1.89s
673:	learn: 6.1481182	total: 3.89s	remaining: 1.88s
674:	learn: 6.1446650	total: 3.89s	remaining: 1.88s
675:	learn: 6.1414576	total: 3.9s	remaining: 1.87s
676:	learn: 6.1407692	total: 3.9s	remaining: 1.86s
677:	learn: 6.1351548	total: 3.9s	remaining: 1.85s
678:	learn: 6.1286255	total: 3.9s	remaining: 1.84s
679:	learn: 6.1150223	total: 3.9s	remaining: 1.83s
680:	learn: 6.1093227	total: 3.9s	remaining: 1.83s
681:	learn: 6.1082734	total: 3.9s	remaining: 1.82s
682:	learn: 6.1012743	total: 3.9s	remaining: 1.81s
683:	learn: 6.0944500	total: 3.9s	remaining: 1.8s
684:	learn: 6.0930266	total: 3.98s	remaining: 1.83s
685:	learn: 6.0886302	total: 3.98s	remaining: 1.82s
686:	learn: 6.0877917	total: 3.99s	remaining: 1.82s
687:	learn: 6.0857762	total: 3.99s	remaining: 1.81s
688:	learn: 6.0796956	total: 3.99s	remaining: 1.8s
689:	learn: 6.0777622	total: 3.99s	remaining: 1.79s
690:	learn: 6.0727681	total: 3.99s	remaining: 1.78s
691:	learn: 6.0680660	total: 3.99s	remaining: 1.78s
692:	learn: 6.0599059	total: 3.99s	remaining: 1.77s
693:	learn: 6.0562985	total: 3.99s	remaining: 1.76s
694:	learn: 6.0539990	total: 3.99s	remaining: 1.75s
695:	learn: 6.0443297	total: 4s	remaining: 1.75s
696:	learn: 6.0347881	total: 4s	remaining: 1.74s
697:	learn: 6.0300452	total: 4s	remaining: 1.73s
698:	learn: 6.0277066	total: 4s	remaining: 1.72s
699:	learn: 6.0243591	total: 4s	remaining: 1.71s
700:	learn: 6.0235262	total: 4.08s	remaining: 1.74s
701:	learn: 6.0220215	total: 4.08s	remaining: 1.73s
702:	learn: 6.0203036	total: 4.08s	remaining: 1.72s
703:	learn: 6.0150990	total: 4.08s	remaining: 1.72s
704:	learn: 6.0134411	total: 4.08s	remaining: 1.71s
705:	learn: 6.0084723	total: 4.08s	remaining: 1.7s
706:	learn: 5.9993904	total: 4.08s	remaining: 1.69s
707:	learn: 5.9949145	total: 4.08s	remaining: 1.68s
708:	learn: 5.9867757	total: 4.08s	remaining: 1.68s
709:	learn: 5.9861225	total: 4.08s	remaining: 1.67s
710:	learn: 5.9825689	total: 4.08s	remaining: 1.66s
711:	learn: 5.9765097	total: 4.08s	remaining: 1.65s
712:	learn: 5.9754748	total: 4.09s	remaining: 1.64s
713:	learn: 5.9677243	total: 4.09s	remaining: 1.64s
714:	learn: 5.9635954	total: 4.09s	remaining: 1.63s
715:	learn: 5.9619658	total: 4.09s	remaining: 1.62s
716:	learn: 5.9520280	total: 4.17s	remaining: 1.65s
717:	learn: 5.9481750	total: 4.17s	remaining: 1.64s
718:	learn: 5.9403833	total: 4.17s	remaining: 1.63s
719:	learn: 5.9393280	total: 4.17s	remaining: 1.62s
720:	learn: 5.9314317	total: 4.17s	remaining: 1.61s

721:	learn: 5.9268063	total: 4.17s	remaining: 1.61s
722:	learn: 5.9204382	total: 4.18s	remaining: 1.6s
723:	learn: 5.9187831	total: 4.18s	remaining: 1.59s
724:	learn: 5.9167147	total: 4.18s	remaining: 1.58s
725:	learn: 5.9098064	total: 4.18s	remaining: 1.58s
726:	learn: 5.9057004	total: 4.18s	remaining: 1.57s
727:	learn: 5.9020248	total: 4.18s	remaining: 1.56s
728:	learn: 5.8973165	total: 4.18s	remaining: 1.55s
729:	learn: 5.8865312	total: 4.19s	remaining: 1.55s
730:	learn: 5.8835290	total: 4.19s	remaining: 1.54s
731:	learn: 5.8826671	total: 4.27s	remaining: 1.56s
732:	learn: 5.8762097	total: 4.27s	remaining: 1.55s
733:	learn: 5.8732317	total: 4.27s	remaining: 1.55s
734:	learn: 5.8685443	total: 4.27s	remaining: 1.54s
735:	learn: 5.8625757	total: 4.27s	remaining: 1.53s
736:	learn: 5.8585241	total: 4.27s	remaining: 1.52s
737:	learn: 5.8515214	total: 4.27s	remaining: 1.52s
738:	learn: 5.8484994	total: 4.27s	remaining: 1.51s
739:	learn: 5.8464815	total: 4.27s	remaining: 1.5s
740:	learn: 5.8446095	total: 4.27s	remaining: 1.49s
741:	learn: 5.8441420	total: 4.27s	remaining: 1.49s
742:	learn: 5.8399054	total: 4.27s	remaining: 1.48s
743:	learn: 5.8357362	total: 4.27s	remaining: 1.47s
744:	learn: 5.8271248	total: 4.28s	remaining: 1.46s
745:	learn: 5.8244075	total: 4.28s	remaining: 1.46s
746:	learn: 5.8207907	total: 4.28s	remaining: 1.45s
747:	learn: 5.8162876	total: 4.28s	remaining: 1.44s
748:	learn: 5.8088957	total: 4.36s	remaining: 1.46s
749:	learn: 5.8072641	total: 4.36s	remaining: 1.45s
750:	learn: 5.8060160	total: 4.36s	remaining: 1.45s
751:	learn: 5.8025112	total: 4.36s	remaining: 1.44s
752:	learn: 5.7978913	total: 4.36s	remaining: 1.43s
753:	learn: 5.7938158	total: 4.36s	remaining: 1.42s
754:	learn: 5.7855086	total: 4.36s	remaining: 1.42s
755:	learn: 5.7780906	total: 4.37s	remaining: 1.41s
756:	learn: 5.7757631	total: 4.37s	remaining: 1.4s
757:	learn: 5.7693176	total: 4.37s	remaining: 1.39s
758:	learn: 5.7659182	total: 4.37s	remaining: 1.39s
759:	learn: 5.7647254	total: 4.37s	remaining: 1.38s
760:	learn: 5.7602088	total: 4.37s	remaining: 1.37s
761:	learn: 5.7560732	total: 4.37s	remaining: 1.36s
762:	learn: 5.7526966	total: 4.37s	remaining: 1.36s
763:	learn: 5.7496192	total: 4.46s	remaining: 1.38s
764:	learn: 5.7467731	total: 4.46s	remaining: 1.37s
765:	learn: 5.7395041	total: 4.46s	remaining: 1.36s
766:	learn: 5.7350367	total: 4.46s	remaining: 1.35s
767:	learn: 5.7342324	total: 4.46s	remaining: 1.35s
768:	learn: 5.7304483	total: 4.46s	remaining: 1.34s
769:	learn: 5.7273829	total: 4.46s	remaining: 1.33s
770:	learn: 5.7241594	total: 4.46s	remaining: 1.32s
771:	learn: 5.7179498	total: 4.46s	remaining: 1.32s
772:	learn: 5.7128376	total: 4.46s	remaining: 1.31s
773:	learn: 5.7111450	total: 4.46s	remaining: 1.3s
774:	learn: 5.7101648	total: 4.47s	remaining: 1.3s
775:	learn: 5.6984108	total: 4.47s	remaining: 1.29s
776:	learn: 5.6963932	total: 4.47s	remaining: 1.28s
777:	learn: 5.6906063	total: 4.47s	remaining: 1.27s
778:	learn: 5.6828274	total: 4.47s	remaining: 1.27s
779:	learn: 5.6726880	total: 4.55s	remaining: 1.28s
780:	learn: 5.6681457	total: 4.55s	remaining: 1.27s
781:	learn: 5.6630421	total: 4.55s	remaining: 1.27s

782:	learn: 5.6593392	total: 4.55s	remaining: 1.26s
783:	learn: 5.6535032	total: 4.55s	remaining: 1.25s
784:	learn: 5.6518591	total: 4.55s	remaining: 1.25s
785:	learn: 5.6435251	total: 4.55s	remaining: 1.24s
786:	learn: 5.6394044	total: 4.55s	remaining: 1.23s
787:	learn: 5.6362084	total: 4.55s	remaining: 1.23s
788:	learn: 5.6327570	total: 4.55s	remaining: 1.22s
789:	learn: 5.6321411	total: 4.55s	remaining: 1.21s
790:	learn: 5.6255634	total: 4.56s	remaining: 1.2s
791:	learn: 5.6189552	total: 4.56s	remaining: 1.2s
792:	learn: 5.6181853	total: 4.56s	remaining: 1.19s
793:	learn: 5.6169563	total: 4.56s	remaining: 1.18s
794:	learn: 5.6151560	total: 4.56s	remaining: 1.18s
795:	learn: 5.6135491	total: 4.64s	remaining: 1.19s
796:	learn: 5.6090881	total: 4.64s	remaining: 1.18s
797:	learn: 5.6016669	total: 4.64s	remaining: 1.18s
798:	learn: 5.5906088	total: 4.65s	remaining: 1.17s
799:	learn: 5.5872886	total: 4.65s	remaining: 1.16s
800:	learn: 5.5821780	total: 4.65s	remaining: 1.15s
801:	learn: 5.5761603	total: 4.65s	remaining: 1.15s
802:	learn: 5.5704773	total: 4.65s	remaining: 1.14s
803:	learn: 5.5683219	total: 4.65s	remaining: 1.13s
804:	learn: 5.5651320	total: 4.65s	remaining: 1.13s
805:	learn: 5.5607691	total: 4.65s	remaining: 1.12s
806:	learn: 5.5556165	total: 4.65s	remaining: 1.11s
807:	learn: 5.5508689	total: 4.65s	remaining: 1.1s
808:	learn: 5.5501349	total: 4.65s	remaining: 1.1s
809:	learn: 5.5441227	total: 4.65s	remaining: 1.09s
810:	learn: 5.5406253	total: 4.66s	remaining: 1.08s
811:	learn: 5.5391756	total: 4.74s	remaining: 1.1s
812:	learn: 5.5309824	total: 4.74s	remaining: 1.09s
813:	learn: 5.5305884	total: 4.74s	remaining: 1.08s
814:	learn: 5.5245895	total: 4.74s	remaining: 1.07s
815:	learn: 5.5240840	total: 4.74s	remaining: 1.07s
816:	learn: 5.5197659	total: 4.74s	remaining: 1.06s
817:	learn: 5.5191793	total: 4.74s	remaining: 1.05s
818:	learn: 5.5185307	total: 4.74s	remaining: 1.05s
819:	learn: 5.5138361	total: 4.74s	remaining: 1.04s
820:	learn: 5.5080241	total: 4.74s	remaining: 1.03s
821:	learn: 5.5052460	total: 4.74s	remaining: 1.03s
822:	learn: 5.4994773	total: 4.74s	remaining: 1.02s
823:	learn: 5.4953420	total: 4.74s	remaining: 1.01s
824:	learn: 5.4924635	total: 4.74s	remaining: 1.01s
825:	learn: 5.4887892	total: 4.75s	remaining: 1000ms
826:	learn: 5.4857453	total: 4.83s	remaining: 1.01s
827:	learn: 5.4828064	total: 4.83s	remaining: 1s
828:	learn: 5.4812529	total: 4.83s	remaining: 997ms
829:	learn: 5.4772293	total: 4.83s	remaining: 990ms
830:	learn: 5.4753109	total: 4.83s	remaining: 983ms
831:	learn: 5.4707979	total: 4.83s	remaining: 976ms
832:	learn: 5.4680911	total: 4.84s	remaining: 970ms
833:	learn: 5.4645196	total: 4.84s	remaining: 963ms
834:	learn: 5.4600942	total: 4.84s	remaining: 956ms
835:	learn: 5.4564143	total: 4.84s	remaining: 949ms
836:	learn: 5.4518442	total: 4.84s	remaining: 942ms
837:	learn: 5.4502302	total: 4.84s	remaining: 936ms
838:	learn: 5.4490583	total: 4.84s	remaining: 929ms
839:	learn: 5.4435927	total: 4.84s	remaining: 922ms
840:	learn: 5.4385446	total: 4.84s	remaining: 916ms
841:	learn: 5.4362092	total: 4.84s	remaining: 909ms
842:	learn: 5.4356085	total: 4.85s	remaining: 903ms

843:	learn: 5.4331511	total: 4.92s	remaining: 910ms
844:	learn: 5.4305749	total: 4.92s	remaining: 903ms
845:	learn: 5.4256484	total: 4.92s	remaining: 896ms
846:	learn: 5.4224903	total: 4.92s	remaining: 889ms
847:	learn: 5.4214842	total: 4.92s	remaining: 883ms
848:	learn: 5.4190515	total: 4.92s	remaining: 876ms
849:	learn: 5.4143893	total: 4.92s	remaining: 869ms
850:	learn: 5.4057034	total: 4.93s	remaining: 863ms
851:	learn: 5.4052911	total: 4.93s	remaining: 856ms
852:	learn: 5.4048115	total: 4.93s	remaining: 849ms
853:	learn: 5.4016455	total: 4.93s	remaining: 843ms
854:	learn: 5.3995418	total: 4.93s	remaining: 836ms
855:	learn: 5.3950895	total: 4.93s	remaining: 829ms
856:	learn: 5.3947052	total: 4.93s	remaining: 823ms
857:	learn: 5.3897855	total: 4.93s	remaining: 816ms
858:	learn: 5.3834746	total: 4.93s	remaining: 809ms
859:	learn: 5.3810342	total: 4.93s	remaining: 803ms
860:	learn: 5.3805083	total: 5.01s	remaining: 810ms
861:	learn: 5.3751101	total: 5.01s	remaining: 803ms
862:	learn: 5.3728029	total: 5.02s	remaining: 796ms
863:	learn: 5.3722888	total: 5.02s	remaining: 790ms
864:	learn: 5.3681286	total: 5.02s	remaining: 783ms
865:	learn: 5.3625919	total: 5.02s	remaining: 777ms
866:	learn: 5.3570911	total: 5.02s	remaining: 770ms
867:	learn: 5.3523120	total: 5.02s	remaining: 763ms
868:	learn: 5.3446950	total: 5.02s	remaining: 757ms
869:	learn: 5.3375610	total: 5.02s	remaining: 750ms
870:	learn: 5.3338494	total: 5.02s	remaining: 744ms
871:	learn: 5.3298013	total: 5.02s	remaining: 737ms
872:	learn: 5.3258785	total: 5.02s	remaining: 731ms
873:	learn: 5.3245115	total: 5.02s	remaining: 724ms
874:	learn: 5.3128244	total: 5.03s	remaining: 718ms
875:	learn: 5.3100595	total: 5.11s	remaining: 723ms
876:	learn: 5.3088015	total: 5.11s	remaining: 717ms
877:	learn: 5.3077526	total: 5.11s	remaining: 710ms
878:	learn: 5.3060558	total: 5.11s	remaining: 704ms
879:	learn: 5.2989228	total: 5.11s	remaining: 697ms
880:	learn: 5.2984047	total: 5.11s	remaining: 691ms
881:	learn: 5.2976900	total: 5.11s	remaining: 684ms
882:	learn: 5.2935381	total: 5.12s	remaining: 678ms
883:	learn: 5.2858346	total: 5.12s	remaining: 671ms
884:	learn: 5.2850364	total: 5.12s	remaining: 665ms
885:	learn: 5.2813712	total: 5.12s	remaining: 658ms
886:	learn: 5.2770065	total: 5.12s	remaining: 652ms
887:	learn: 5.2719399	total: 5.12s	remaining: 646ms
888:	learn: 5.2709258	total: 5.12s	remaining: 639ms
889:	learn: 5.2701163	total: 5.12s	remaining: 633ms
890:	learn: 5.2634135	total: 5.12s	remaining: 626ms
891:	learn: 5.2612810	total: 5.2s	remaining: 630ms
892:	learn: 5.2587800	total: 5.2s	remaining: 624ms
893:	learn: 5.2564065	total: 5.21s	remaining: 617ms
894:	learn: 5.2495026	total: 5.21s	remaining: 611ms
895:	learn: 5.2477700	total: 5.21s	remaining: 604ms
896:	learn: 5.2445375	total: 5.21s	remaining: 598ms
897:	learn: 5.2386495	total: 5.21s	remaining: 592ms
898:	learn: 5.2343627	total: 5.21s	remaining: 585ms
899:	learn: 5.2270947	total: 5.21s	remaining: 579ms
900:	learn: 5.2266440	total: 5.21s	remaining: 573ms
901:	learn: 5.2173136	total: 5.21s	remaining: 566ms
902:	learn: 5.2159428	total: 5.21s	remaining: 560ms
903:	learn: 5.2123129	total: 5.21s	remaining: 554ms

904:	learn: 5.2063115	total: 5.21s	remaining: 547ms
905:	learn: 5.2034388	total: 5.21s	remaining: 541ms
906:	learn: 5.2026113	total: 5.21s	remaining: 535ms
907:	learn: 5.1968804	total: 5.21s	remaining: 528ms
908:	learn: 5.1951805	total: 5.22s	remaining: 522ms
909:	learn: 5.1929530	total: 5.3s	remaining: 524ms
910:	learn: 5.1870592	total: 5.3s	remaining: 518ms
911:	learn: 5.1842950	total: 5.3s	remaining: 511ms
912:	learn: 5.1805239	total: 5.3s	remaining: 505ms
913:	learn: 5.1738254	total: 5.3s	remaining: 499ms
914:	learn: 5.1643778	total: 5.3s	remaining: 492ms
915:	learn: 5.1614055	total: 5.3s	remaining: 486ms
916:	learn: 5.1599788	total: 5.3s	remaining: 480ms
917:	learn: 5.1565345	total: 5.3s	remaining: 474ms
918:	learn: 5.1514476	total: 5.3s	remaining: 467ms
919:	learn: 5.1456005	total: 5.3s	remaining: 461ms
920:	learn: 5.1425963	total: 5.3s	remaining: 455ms
921:	learn: 5.1378493	total: 5.3s	remaining: 449ms
922:	learn: 5.1287463	total: 5.31s	remaining: 443ms
923:	learn: 5.1277284	total: 5.31s	remaining: 437ms
924:	learn: 5.1258175	total: 5.31s	remaining: 431ms
925:	learn: 5.1221719	total: 5.31s	remaining: 425ms
926:	learn: 5.1211840	total: 5.39s	remaining: 425ms
927:	learn: 5.1206809	total: 5.39s	remaining: 418ms
928:	learn: 5.1167100	total: 5.39s	remaining: 412ms
929:	learn: 5.1119330	total: 5.39s	remaining: 406ms
930:	learn: 5.1113258	total: 5.39s	remaining: 400ms
931:	learn: 5.1045083	total: 5.39s	remaining: 394ms
932:	learn: 5.1008217	total: 5.4s	remaining: 388ms
933:	learn: 5.0999880	total: 5.4s	remaining: 381ms
934:	learn: 5.0939621	total: 5.4s	remaining: 375ms
935:	learn: 5.0911340	total: 5.4s	remaining: 369ms
936:	learn: 5.0896799	total: 5.4s	remaining: 363ms
937:	learn: 5.0839739	total: 5.4s	remaining: 357ms
938:	learn: 5.0785149	total: 5.4s	remaining: 351ms
939:	learn: 5.0772002	total: 5.4s	remaining: 345ms
940:	learn: 5.0708664	total: 5.4s	remaining: 339ms
941:	learn: 5.0674892	total: 5.49s	remaining: 338ms
942:	learn: 5.0627530	total: 5.49s	remaining: 332ms
943:	learn: 5.0616978	total: 5.49s	remaining: 326ms
944:	learn: 5.0608959	total: 5.49s	remaining: 319ms
945:	learn: 5.0586593	total: 5.49s	remaining: 313ms
946:	learn: 5.0572443	total: 5.49s	remaining: 307ms
947:	learn: 5.0539806	total: 5.49s	remaining: 301ms
948:	learn: 5.0525400	total: 5.49s	remaining: 295ms
949:	learn: 5.0478576	total: 5.49s	remaining: 289ms
950:	learn: 5.0454432	total: 5.49s	remaining: 283ms
951:	learn: 5.0440694	total: 5.49s	remaining: 277ms
952:	learn: 5.0420399	total: 5.49s	remaining: 271ms
953:	learn: 5.0321939	total: 5.49s	remaining: 265ms
954:	learn: 5.0252282	total: 5.49s	remaining: 259ms
955:	learn: 5.0237470	total: 5.5s	remaining: 253ms
956:	learn: 5.0172503	total: 5.5s	remaining: 247ms
957:	learn: 5.0110287	total: 5.58s	remaining: 245ms
958:	learn: 5.0064489	total: 5.58s	remaining: 239ms
959:	learn: 5.0018964	total: 5.58s	remaining: 233ms
960:	learn: 5.0004528	total: 5.58s	remaining: 227ms
961:	learn: 4.9985350	total: 5.58s	remaining: 221ms
962:	learn: 4.9962064	total: 5.58s	remaining: 215ms
963:	learn: 4.9944421	total: 5.58s	remaining: 209ms
964:	learn: 4.9916832	total: 5.58s	remaining: 203ms

965:	learn: 4.9830952	total: 5.58s	remaining: 197ms
966:	learn: 4.9767984	total: 5.58s	remaining: 191ms
967:	learn: 4.9748644	total: 5.59s	remaining: 185ms
968:	learn: 4.9707761	total: 5.59s	remaining: 179ms
969:	learn: 4.9701012	total: 5.59s	remaining: 173ms
970:	learn: 4.9637887	total: 5.59s	remaining: 167ms
971:	learn: 4.9615806	total: 5.59s	remaining: 161ms
972:	learn: 4.9583606	total: 5.59s	remaining: 155ms
973:	learn: 4.9524184	total: 5.59s	remaining: 149ms
974:	learn: 4.9503440	total: 5.67s	remaining: 145ms
975:	learn: 4.9457643	total: 5.67s	remaining: 140ms
976:	learn: 4.9444083	total: 5.67s	remaining: 134ms
977:	learn: 4.9425648	total: 5.67s	remaining: 128ms
978:	learn: 4.9401904	total: 5.68s	remaining: 122ms
979:	learn: 4.9388263	total: 5.68s	remaining: 116ms
980:	learn: 4.9383571	total: 5.68s	remaining: 110ms
981:	learn: 4.9300781	total: 5.68s	remaining: 104ms
982:	learn: 4.9262885	total: 5.68s	remaining: 98.2ms
983:	learn: 4.9252203	total: 5.68s	remaining: 92.3ms
984:	learn: 4.9210289	total: 5.68s	remaining: 86.5ms
985:	learn: 4.9155240	total: 5.68s	remaining: 80.7ms
986:	learn: 4.9149817	total: 5.68s	remaining: 74.8ms
987:	learn: 4.9106939	total: 5.68s	remaining: 69ms
988:	learn: 4.9079656	total: 5.68s	remaining: 63.2ms
989:	learn: 4.8990058	total: 5.68s	remaining: 57.4ms
990:	learn: 4.8986795	total: 5.77s	remaining: 52.4ms
991:	learn: 4.8966798	total: 5.77s	remaining: 46.5ms
992:	learn: 4.8933249	total: 5.77s	remaining: 40.7ms
993:	learn: 4.8806818	total: 5.77s	remaining: 34.8ms
994:	learn: 4.8775546	total: 5.77s	remaining: 29ms
995:	learn: 4.8739598	total: 5.77s	remaining: 23.2ms
996:	learn: 4.8708593	total: 5.77s	remaining: 17.4ms
997:	learn: 4.8652476	total: 5.77s	remaining: 11.6ms
998:	learn: 4.8639953	total: 5.77s	remaining: 5.78ms
999:	learn: 4.8632744	total: 5.77s	remaining: 0us
0:	learn: 14.6934410	total: 1.86ms	remaining: 1.86s
1:	learn: 14.5700732	total: 3.04ms	remaining: 1.51s
2:	learn: 14.4580169	total: 4.21ms	remaining: 1.4s
3:	learn: 14.3431805	total: 5.32ms	remaining: 1.32s
4:	learn: 14.2306952	total: 6.45ms	remaining: 1.28s
5:	learn: 14.1307496	total: 7.66ms	remaining: 1.27s
6:	learn: 14.0364512	total: 8.82ms	remaining: 1.25s
7:	learn: 13.9518795	total: 10.6ms	remaining: 1.31s
8:	learn: 13.8719682	total: 11.7ms	remaining: 1.28s
9:	learn: 13.7874877	total: 12.8ms	remaining: 1.26s
10:	learn: 13.7068422	total: 13.9ms	remaining: 1.25s
11:	learn: 13.6253844	total: 90ms	remaining: 7.41s
12:	learn: 13.5387940	total: 91.1ms	remaining: 6.91s
13:	learn: 13.4660753	total: 92.3ms	remaining: 6.5s
14:	learn: 13.3936045	total: 93.4ms	remaining: 6.13s
15:	learn: 13.3217317	total: 94.5ms	remaining: 5.81s
16:	learn: 13.2648432	total: 96.7ms	remaining: 5.59s
17:	learn: 13.1911880	total: 97.8ms	remaining: 5.33s
18:	learn: 13.1298636	total: 98.9ms	remaining: 5.1s
19:	learn: 13.0534448	total: 100ms	remaining: 4.91s
20:	learn: 13.0024022	total: 101ms	remaining: 4.72s
21:	learn: 12.9475382	total: 186ms	remaining: 8.27s
22:	learn: 12.8860337	total: 187ms	remaining: 7.96s
23:	learn: 12.8355039	total: 189ms	remaining: 7.67s
24:	learn: 12.7877230	total: 190ms	remaining: 7.4s
25:	learn: 12.7292381	total: 191ms	remaining: 7.15s

26:	learn: 12.6743479	total: 192ms	remaining: 6.92s
27:	learn: 12.6239069	total: 194ms	remaining: 6.73s
28:	learn: 12.5708020	total: 195ms	remaining: 6.54s
29:	learn: 12.5166628	total: 202ms	remaining: 6.53s
30:	learn: 12.4564445	total: 281ms	remaining: 8.78s
31:	learn: 12.4105912	total: 282ms	remaining: 8.53s
32:	learn: 12.3615880	total: 283ms	remaining: 8.3s
33:	learn: 12.3163048	total: 284ms	remaining: 8.08s
34:	learn: 12.2697511	total: 286ms	remaining: 7.87s
35:	learn: 12.2384454	total: 287ms	remaining: 7.68s
36:	learn: 12.1957770	total: 288ms	remaining: 7.5s
37:	learn: 12.1618600	total: 289ms	remaining: 7.32s
38:	learn: 12.1199362	total: 290ms	remaining: 7.15s
39:	learn: 12.0868455	total: 292ms	remaining: 7s
40:	learn: 12.0561650	total: 293ms	remaining: 6.85s
41:	learn: 12.0249620	total: 294ms	remaining: 6.7s
42:	learn: 11.9888933	total: 376ms	remaining: 8.37s
43:	learn: 11.9564915	total: 377ms	remaining: 8.2s
44:	learn: 11.9233721	total: 379ms	remaining: 8.03s
45:	learn: 11.8920426	total: 380ms	remaining: 7.88s
46:	learn: 11.8688609	total: 382ms	remaining: 7.75s
47:	learn: 11.8355589	total: 383ms	remaining: 7.6s
48:	learn: 11.8041292	total: 384ms	remaining: 7.46s
49:	learn: 11.7769146	total: 386ms	remaining: 7.33s
50:	learn: 11.7518500	total: 387ms	remaining: 7.21s
51:	learn: 11.7311694	total: 389ms	remaining: 7.09s
52:	learn: 11.7108256	total: 390ms	remaining: 6.97s
53:	learn: 11.6856542	total: 472ms	remaining: 8.27s
54:	learn: 11.6663817	total: 473ms	remaining: 8.13s
55:	learn: 11.6439976	total: 475ms	remaining: 8.01s
56:	learn: 11.6203364	total: 476ms	remaining: 7.88s
57:	learn: 11.5934852	total: 477ms	remaining: 7.75s
58:	learn: 11.5651654	total: 478ms	remaining: 7.63s
59:	learn: 11.5452658	total: 480ms	remaining: 7.51s
60:	learn: 11.5224182	total: 481ms	remaining: 7.4s
61:	learn: 11.5026035	total: 482ms	remaining: 7.29s
62:	learn: 11.4754929	total: 483ms	remaining: 7.18s
63:	learn: 11.4566667	total: 484ms	remaining: 7.08s
64:	learn: 11.4411120	total: 568ms	remaining: 8.18s
65:	learn: 11.4260722	total: 570ms	remaining: 8.06s
66:	learn: 11.4076898	total: 571ms	remaining: 7.95s
67:	learn: 11.3951912	total: 572ms	remaining: 7.84s
68:	learn: 11.3744909	total: 573ms	remaining: 7.74s
69:	learn: 11.3569727	total: 574ms	remaining: 7.63s
70:	learn: 11.3353393	total: 575ms	remaining: 7.53s
71:	learn: 11.3196216	total: 577ms	remaining: 7.43s
72:	learn: 11.3041188	total: 578ms	remaining: 7.34s
73:	learn: 11.2905946	total: 664ms	remaining: 8.31s
74:	learn: 11.2706151	total: 666ms	remaining: 8.21s
75:	learn: 11.2581062	total: 667ms	remaining: 8.11s
76:	learn: 11.2383206	total: 668ms	remaining: 8.01s
77:	learn: 11.2206512	total: 669ms	remaining: 7.91s
78:	learn: 11.2046406	total: 671ms	remaining: 7.83s
79:	learn: 11.1934332	total: 673ms	remaining: 7.74s
80:	learn: 11.1737316	total: 674ms	remaining: 7.65s
81:	learn: 11.1515365	total: 675ms	remaining: 7.56s
82:	learn: 11.1382507	total: 677ms	remaining: 7.47s
83:	learn: 11.1239347	total: 678ms	remaining: 7.39s
84:	learn: 11.1038308	total: 761ms	remaining: 8.19s
85:	learn: 11.0735301	total: 762ms	remaining: 8.1s
86:	learn: 11.0641528	total: 764ms	remaining: 8.01s

87:	learn: 11.0541247	total: 765ms	remaining: 7.93s
88:	learn: 11.0373339	total: 766ms	remaining: 7.84s
89:	learn: 11.0237962	total: 767ms	remaining: 7.76s
90:	learn: 11.0121240	total: 768ms	remaining: 7.67s
91:	learn: 10.9926506	total: 769ms	remaining: 7.59s
92:	learn: 10.9774716	total: 771ms	remaining: 7.51s
93:	learn: 10.9619001	total: 772ms	remaining: 7.44s
94:	learn: 10.9537911	total: 773ms	remaining: 7.36s
95:	learn: 10.9480971	total: 857ms	remaining: 8.07s
96:	learn: 10.9288460	total: 858ms	remaining: 7.99s
97:	learn: 10.9155465	total: 859ms	remaining: 7.91s
98:	learn: 10.9031451	total: 861ms	remaining: 7.83s
99:	learn: 10.8921231	total: 863ms	remaining: 7.76s
100:	learn: 10.8765914	total: 864ms	remaining: 7.69s
101:	learn: 10.8651098	total: 865ms	remaining: 7.61s
102:	learn: 10.8544862	total: 866ms	remaining: 7.54s
103:	learn: 10.8480668	total: 867ms	remaining: 7.47s
104:	learn: 10.8267398	total: 868ms	remaining: 7.4s
105:	learn: 10.8144712	total: 870ms	remaining: 7.33s
106:	learn: 10.8052269	total: 952ms	remaining: 7.95s
107:	learn: 10.7905174	total: 954ms	remaining: 7.88s
108:	learn: 10.7813395	total: 955ms	remaining: 7.8s
109:	learn: 10.7776422	total: 956ms	remaining: 7.73s
110:	learn: 10.7647051	total: 958ms	remaining: 7.67s
111:	learn: 10.7570002	total: 959ms	remaining: 7.6s
112:	learn: 10.7505099	total: 961ms	remaining: 7.54s
113:	learn: 10.7386988	total: 962ms	remaining: 7.48s
114:	learn: 10.7293800	total: 964ms	remaining: 7.42s
115:	learn: 10.7190692	total: 1.05s	remaining: 7.99s
116:	learn: 10.7014480	total: 1.05s	remaining: 7.92s
117:	learn: 10.6963668	total: 1.05s	remaining: 7.85s
118:	learn: 10.6869301	total: 1.05s	remaining: 7.79s
119:	learn: 10.6632861	total: 1.05s	remaining: 7.72s
120:	learn: 10.6528483	total: 1.05s	remaining: 7.66s
121:	learn: 10.6338523	total: 1.05s	remaining: 7.6s
122:	learn: 10.6204651	total: 1.06s	remaining: 7.53s
123:	learn: 10.6114124	total: 1.06s	remaining: 7.47s
124:	learn: 10.6064895	total: 1.06s	remaining: 7.41s
125:	learn: 10.5815413	total: 1.06s	remaining: 7.35s
126:	learn: 10.5705741	total: 1.14s	remaining: 7.86s
127:	learn: 10.5603700	total: 1.15s	remaining: 7.8s
128:	learn: 10.5505748	total: 1.15s	remaining: 7.74s
129:	learn: 10.5371289	total: 1.15s	remaining: 7.68s
130:	learn: 10.5244166	total: 1.15s	remaining: 7.62s
131:	learn: 10.5095495	total: 1.15s	remaining: 7.56s
132:	learn: 10.5039886	total: 1.15s	remaining: 7.51s
133:	learn: 10.4939317	total: 1.15s	remaining: 7.45s
134:	learn: 10.4817763	total: 1.15s	remaining: 7.39s
135:	learn: 10.4730683	total: 1.16s	remaining: 7.34s
136:	learn: 10.4629835	total: 1.16s	remaining: 7.28s
137:	learn: 10.4544810	total: 1.24s	remaining: 7.74s
138:	learn: 10.4457772	total: 1.24s	remaining: 7.68s
139:	learn: 10.4357614	total: 1.24s	remaining: 7.63s
140:	learn: 10.4248364	total: 1.24s	remaining: 7.57s
141:	learn: 10.4191698	total: 1.24s	remaining: 7.52s
142:	learn: 10.4151648	total: 1.25s	remaining: 7.46s
143:	learn: 10.4021743	total: 1.25s	remaining: 7.41s
144:	learn: 10.3930286	total: 1.25s	remaining: 7.36s
145:	learn: 10.3759586	total: 1.25s	remaining: 7.3s
146:	learn: 10.3672745	total: 1.25s	remaining: 7.25s
147:	learn: 10.3512809	total: 1.25s	remaining: 7.2s

148:	learn: 10.3478257	total: 1.33s	remaining: 7.62s
149:	learn: 10.3347748	total: 1.33s	remaining: 7.57s
150:	learn: 10.3152473	total: 1.34s	remaining: 7.52s
151:	learn: 10.3065250	total: 1.34s	remaining: 7.46s
152:	learn: 10.3041250	total: 1.34s	remaining: 7.41s
153:	learn: 10.2933573	total: 1.34s	remaining: 7.36s
154:	learn: 10.2878904	total: 1.34s	remaining: 7.31s
155:	learn: 10.2830121	total: 1.34s	remaining: 7.26s
156:	learn: 10.2699234	total: 1.34s	remaining: 7.21s
157:	learn: 10.2619795	total: 1.34s	remaining: 7.17s
158:	learn: 10.2544089	total: 1.34s	remaining: 7.12s
159:	learn: 10.2486729	total: 1.35s	remaining: 7.07s
160:	learn: 10.2402084	total: 1.43s	remaining: 7.46s
161:	learn: 10.2277849	total: 1.43s	remaining: 7.41s
162:	learn: 10.2187793	total: 1.43s	remaining: 7.36s
163:	learn: 10.2105076	total: 1.43s	remaining: 7.31s
164:	learn: 10.1964367	total: 1.44s	remaining: 7.27s
165:	learn: 10.1883591	total: 1.44s	remaining: 7.22s
166:	learn: 10.1737952	total: 1.44s	remaining: 7.18s
167:	learn: 10.1633583	total: 1.44s	remaining: 7.13s
168:	learn: 10.1516475	total: 1.53s	remaining: 7.51s
169:	learn: 10.1413979	total: 1.53s	remaining: 7.46s
170:	learn: 10.1333843	total: 1.53s	remaining: 7.41s
171:	learn: 10.1275739	total: 1.53s	remaining: 7.37s
172:	learn: 10.1222399	total: 1.53s	remaining: 7.32s
173:	learn: 10.1181422	total: 1.53s	remaining: 7.27s
174:	learn: 10.1082604	total: 1.53s	remaining: 7.23s
175:	learn: 10.1038082	total: 1.53s	remaining: 7.18s
176:	learn: 10.0914311	total: 1.53s	remaining: 7.14s
177:	learn: 10.0830941	total: 1.54s	remaining: 7.1s
178:	learn: 10.0733305	total: 1.54s	remaining: 7.05s
179:	learn: 10.0616167	total: 1.62s	remaining: 7.39s
180:	learn: 10.0463151	total: 1.62s	remaining: 7.35s
181:	learn: 10.0388521	total: 1.62s	remaining: 7.3s
182:	learn: 10.0333260	total: 1.63s	remaining: 7.26s
183:	learn: 10.0282873	total: 1.63s	remaining: 7.22s
184:	learn: 10.0194590	total: 1.63s	remaining: 7.17s
185:	learn: 10.0142735	total: 1.63s	remaining: 7.13s
186:	learn: 10.0098408	total: 1.63s	remaining: 7.1s
187:	learn: 10.0050990	total: 1.64s	remaining: 7.07s
188:	learn: 9.9978471	total: 1.64s	remaining: 7.02s
189:	learn: 9.9920157	total: 1.64s	remaining: 6.98s
190:	learn: 9.9825976	total: 1.72s	remaining: 7.28s
191:	learn: 9.9770793	total: 1.72s	remaining: 7.23s
192:	learn: 9.9735788	total: 1.72s	remaining: 7.19s
193:	learn: 9.9689109	total: 1.72s	remaining: 7.15s
194:	learn: 9.9655909	total: 1.72s	remaining: 7.11s
195:	learn: 9.9635866	total: 1.72s	remaining: 7.07s
196:	learn: 9.9567815	total: 1.72s	remaining: 7.03s
197:	learn: 9.9518427	total: 1.73s	remaining: 6.99s
198:	learn: 9.9448348	total: 1.73s	remaining: 6.95s
199:	learn: 9.9376805	total: 1.73s	remaining: 6.91s
200:	learn: 9.9273246	total: 1.73s	remaining: 6.88s
201:	learn: 9.9228934	total: 1.73s	remaining: 6.84s
202:	learn: 9.9127019	total: 1.81s	remaining: 7.13s
203:	learn: 9.9060373	total: 1.82s	remaining: 7.09s
204:	learn: 9.8993031	total: 1.82s	remaining: 7.05s
205:	learn: 9.8864691	total: 1.82s	remaining: 7.02s
206:	learn: 9.8786472	total: 1.82s	remaining: 6.98s
207:	learn: 9.8604462	total: 1.82s	remaining: 6.94s
208:	learn: 9.8516628	total: 1.82s	remaining: 6.91s

209:	learn: 9.8394829	total: 1.83s	remaining: 6.87s
210:	learn: 9.8217674	total: 1.91s	remaining: 7.14s
211:	learn: 9.8102487	total: 1.91s	remaining: 7.1s
212:	learn: 9.7969870	total: 1.91s	remaining: 7.07s
213:	learn: 9.7814310	total: 1.91s	remaining: 7.03s
214:	learn: 9.7768035	total: 1.91s	remaining: 6.99s
215:	learn: 9.7697950	total: 1.92s	remaining: 6.95s
216:	learn: 9.7601764	total: 1.92s	remaining: 6.92s
217:	learn: 9.7511851	total: 1.92s	remaining: 6.88s
218:	learn: 9.7442297	total: 1.92s	remaining: 6.84s
219:	learn: 9.7349288	total: 1.92s	remaining: 6.81s
220:	learn: 9.7325124	total: 1.92s	remaining: 6.77s
221:	learn: 9.7258257	total: 2s	remaining: 7.03s
222:	learn: 9.7166246	total: 2.01s	remaining: 6.99s
223:	learn: 9.7134487	total: 2.01s	remaining: 6.96s
224:	learn: 9.7068943	total: 2.01s	remaining: 6.92s
225:	learn: 9.6996135	total: 2.01s	remaining: 6.89s
226:	learn: 9.6919535	total: 2.01s	remaining: 6.85s
227:	learn: 9.6802817	total: 2.01s	remaining: 6.82s
228:	learn: 9.6698318	total: 2.02s	remaining: 6.79s
229:	learn: 9.6665761	total: 2.02s	remaining: 6.75s
230:	learn: 9.6521155	total: 2.02s	remaining: 6.72s
231:	learn: 9.6496613	total: 2.02s	remaining: 6.69s
232:	learn: 9.6449316	total: 2.1s	remaining: 6.91s
233:	learn: 9.6363742	total: 2.1s	remaining: 6.88s
234:	learn: 9.6230021	total: 2.1s	remaining: 6.85s
235:	learn: 9.6135216	total: 2.1s	remaining: 6.81s
236:	learn: 9.6011598	total: 2.1s	remaining: 6.78s
237:	learn: 9.5912763	total: 2.11s	remaining: 6.74s
238:	learn: 9.5894920	total: 2.11s	remaining: 6.71s
239:	learn: 9.5863982	total: 2.11s	remaining: 6.68s
240:	learn: 9.5805833	total: 2.11s	remaining: 6.64s
241:	learn: 9.5744345	total: 2.11s	remaining: 6.61s
242:	learn: 9.5627393	total: 2.11s	remaining: 6.58s
243:	learn: 9.5573861	total: 2.2s	remaining: 6.81s
244:	learn: 9.5485672	total: 2.2s	remaining: 6.78s
245:	learn: 9.5441167	total: 2.2s	remaining: 6.74s
246:	learn: 9.5371827	total: 2.2s	remaining: 6.71s
247:	learn: 9.5305356	total: 2.2s	remaining: 6.68s
248:	learn: 9.5261226	total: 2.2s	remaining: 6.64s
249:	learn: 9.5184526	total: 2.2s	remaining: 6.61s
250:	learn: 9.5097580	total: 2.21s	remaining: 6.58s
251:	learn: 9.4950893	total: 2.21s	remaining: 6.55s
252:	learn: 9.4868000	total: 2.21s	remaining: 6.52s
253:	learn: 9.4805724	total: 2.29s	remaining: 6.73s
254:	learn: 9.4745800	total: 2.29s	remaining: 6.7s
255:	learn: 9.4698283	total: 2.29s	remaining: 6.67s
256:	learn: 9.4560299	total: 2.3s	remaining: 6.64s
257:	learn: 9.4477827	total: 2.3s	remaining: 6.61s
258:	learn: 9.4404021	total: 2.3s	remaining: 6.58s
259:	learn: 9.4365719	total: 2.3s	remaining: 6.55s
260:	learn: 9.4269899	total: 2.3s	remaining: 6.52s
261:	learn: 9.4174782	total: 2.3s	remaining: 6.49s
262:	learn: 9.4099135	total: 2.39s	remaining: 6.69s
263:	learn: 9.3985674	total: 2.39s	remaining: 6.66s
264:	learn: 9.3954638	total: 2.39s	remaining: 6.63s
265:	learn: 9.3928084	total: 2.39s	remaining: 6.6s
266:	learn: 9.3873035	total: 2.39s	remaining: 6.57s
267:	learn: 9.3730985	total: 2.39s	remaining: 6.54s
268:	learn: 9.3643976	total: 2.4s	remaining: 6.51s
269:	learn: 9.3558140	total: 2.4s	remaining: 6.48s

270:	learn: 9.3475585	total: 2.4s	remaining: 6.45s
271:	learn: 9.3379984	total: 2.4s	remaining: 6.42s
272:	learn: 9.3331159	total: 2.48s	remaining: 6.62s
273:	learn: 9.3256719	total: 2.49s	remaining: 6.59s
274:	learn: 9.3189414	total: 2.49s	remaining: 6.56s
275:	learn: 9.3129870	total: 2.49s	remaining: 6.53s
276:	learn: 9.3043183	total: 2.49s	remaining: 6.5s
277:	learn: 9.2977505	total: 2.49s	remaining: 6.47s
278:	learn: 9.2860963	total: 2.49s	remaining: 6.44s
279:	learn: 9.2831894	total: 2.49s	remaining: 6.41s
280:	learn: 9.2766246	total: 2.5s	remaining: 6.38s
281:	learn: 9.2700345	total: 2.5s	remaining: 6.36s
282:	learn: 9.2673885	total: 2.5s	remaining: 6.33s
283:	learn: 9.2558048	total: 2.58s	remaining: 6.5s
284:	learn: 9.2525139	total: 2.58s	remaining: 6.48s
285:	learn: 9.2499965	total: 2.58s	remaining: 6.45s
286:	learn: 9.2409537	total: 2.58s	remaining: 6.42s
287:	learn: 9.2314500	total: 2.58s	remaining: 6.39s
288:	learn: 9.2248207	total: 2.59s	remaining: 6.36s
289:	learn: 9.2223874	total: 2.59s	remaining: 6.33s
290:	learn: 9.2186291	total: 2.59s	remaining: 6.31s
291:	learn: 9.2120228	total: 2.59s	remaining: 6.28s
292:	learn: 9.2092023	total: 2.59s	remaining: 6.25s
293:	learn: 9.1987922	total: 2.59s	remaining: 6.22s
294:	learn: 9.1911555	total: 2.67s	remaining: 6.39s
295:	learn: 9.1883307	total: 2.68s	remaining: 6.37s
296:	learn: 9.1767393	total: 2.68s	remaining: 6.34s
297:	learn: 9.1661483	total: 2.68s	remaining: 6.31s
298:	learn: 9.1580988	total: 2.68s	remaining: 6.29s
299:	learn: 9.1508945	total: 2.68s	remaining: 6.26s
300:	learn: 9.1395372	total: 2.69s	remaining: 6.24s
301:	learn: 9.1311951	total: 2.69s	remaining: 6.21s
302:	learn: 9.1292467	total: 2.69s	remaining: 6.18s
303:	learn: 9.1204156	total: 2.69s	remaining: 6.16s
304:	learn: 9.1104263	total: 2.69s	remaining: 6.13s
305:	learn: 9.1029819	total: 2.69s	remaining: 6.1s
306:	learn: 9.0944510	total: 2.77s	remaining: 6.26s
307:	learn: 9.0852166	total: 2.77s	remaining: 6.23s
308:	learn: 9.0779667	total: 2.77s	remaining: 6.21s
309:	learn: 9.0762172	total: 2.78s	remaining: 6.18s
310:	learn: 9.0718793	total: 2.78s	remaining: 6.15s
311:	learn: 9.0630789	total: 2.78s	remaining: 6.13s
312:	learn: 9.0480418	total: 2.78s	remaining: 6.1s
313:	learn: 9.0407462	total: 2.78s	remaining: 6.08s
314:	learn: 9.0383542	total: 2.78s	remaining: 6.05s
315:	learn: 9.0365506	total: 2.78s	remaining: 6.02s
316:	learn: 9.0349102	total: 2.78s	remaining: 6s
317:	learn: 9.0294231	total: 2.87s	remaining: 6.15s
318:	learn: 9.0264134	total: 2.87s	remaining: 6.12s
319:	learn: 9.0235703	total: 2.87s	remaining: 6.1s
320:	learn: 9.0196732	total: 2.87s	remaining: 6.07s
321:	learn: 9.0168068	total: 2.87s	remaining: 6.05s
322:	learn: 9.0081171	total: 2.87s	remaining: 6.02s
323:	learn: 8.9992974	total: 2.87s	remaining: 6s
324:	learn: 8.9895132	total: 2.88s	remaining: 5.97s
325:	learn: 8.9824966	total: 2.88s	remaining: 5.95s
326:	learn: 8.9805506	total: 2.88s	remaining: 5.92s
327:	learn: 8.9697894	total: 2.88s	remaining: 5.9s
328:	learn: 8.9621278	total: 2.88s	remaining: 5.88s
329:	learn: 8.9568438	total: 2.88s	remaining: 5.85s
330:	learn: 8.9459821	total: 2.88s	remaining: 5.83s

331:	learn: 8.9440062	total: 2.96s	remaining: 5.96s
332:	learn: 8.9330227	total: 2.96s	remaining: 5.94s
333:	learn: 8.9314068	total: 2.96s	remaining: 5.91s
334:	learn: 8.9219675	total: 2.97s	remaining: 5.89s
335:	learn: 8.9192256	total: 2.97s	remaining: 5.86s
336:	learn: 8.9154554	total: 2.97s	remaining: 5.84s
337:	learn: 8.9136465	total: 2.97s	remaining: 5.82s
338:	learn: 8.9116313	total: 2.97s	remaining: 5.79s
339:	learn: 8.8998595	total: 2.97s	remaining: 5.77s
340:	learn: 8.8927754	total: 2.97s	remaining: 5.75s
341:	learn: 8.8891687	total: 3.06s	remaining: 5.88s
342:	learn: 8.8816724	total: 3.06s	remaining: 5.86s
343:	learn: 8.8706405	total: 3.06s	remaining: 5.83s
344:	learn: 8.8606230	total: 3.06s	remaining: 5.81s
345:	learn: 8.8507396	total: 3.06s	remaining: 5.79s
346:	learn: 8.8408277	total: 3.06s	remaining: 5.76s
347:	learn: 8.8385090	total: 3.06s	remaining: 5.74s
348:	learn: 8.8313972	total: 3.06s	remaining: 5.72s
349:	learn: 8.8183139	total: 3.07s	remaining: 5.7s
350:	learn: 8.8162903	total: 3.07s	remaining: 5.67s
351:	learn: 8.8110987	total: 3.07s	remaining: 5.65s
352:	learn: 8.8011386	total: 3.07s	remaining: 5.63s
353:	learn: 8.7902456	total: 3.15s	remaining: 5.75s
354:	learn: 8.7817922	total: 3.15s	remaining: 5.73s
355:	learn: 8.7804624	total: 3.16s	remaining: 5.71s
356:	learn: 8.7713169	total: 3.16s	remaining: 5.69s
357:	learn: 8.7621041	total: 3.16s	remaining: 5.67s
358:	learn: 8.7554348	total: 3.16s	remaining: 5.64s
359:	learn: 8.7446562	total: 3.16s	remaining: 5.62s
360:	learn: 8.7364835	total: 3.16s	remaining: 5.6s
361:	learn: 8.7264415	total: 3.16s	remaining: 5.58s
362:	learn: 8.7168635	total: 3.17s	remaining: 5.55s
363:	learn: 8.7089376	total: 3.17s	remaining: 5.53s
364:	learn: 8.6997880	total: 3.25s	remaining: 5.65s
365:	learn: 8.6948727	total: 3.25s	remaining: 5.63s
366:	learn: 8.6916462	total: 3.25s	remaining: 5.61s
367:	learn: 8.6825323	total: 3.25s	remaining: 5.59s
368:	learn: 8.6749328	total: 3.25s	remaining: 5.56s
369:	learn: 8.6725987	total: 3.26s	remaining: 5.54s
370:	learn: 8.6582556	total: 3.26s	remaining: 5.52s
371:	learn: 8.6516432	total: 3.26s	remaining: 5.5s
372:	learn: 8.6453772	total: 3.27s	remaining: 5.49s
373:	learn: 8.6421247	total: 3.34s	remaining: 5.6s
374:	learn: 8.6380805	total: 3.35s	remaining: 5.58s
375:	learn: 8.6355795	total: 3.35s	remaining: 5.55s
376:	learn: 8.6262529	total: 3.35s	remaining: 5.53s
377:	learn: 8.6199207	total: 3.35s	remaining: 5.51s
378:	learn: 8.6112015	total: 3.35s	remaining: 5.49s
379:	learn: 8.6001510	total: 3.35s	remaining: 5.47s
380:	learn: 8.5953489	total: 3.35s	remaining: 5.45s
381:	learn: 8.5931681	total: 3.35s	remaining: 5.42s
382:	learn: 8.5855102	total: 3.35s	remaining: 5.4s
383:	learn: 8.5764134	total: 3.35s	remaining: 5.38s
384:	learn: 8.5643105	total: 3.36s	remaining: 5.36s
385:	learn: 8.5631275	total: 3.44s	remaining: 5.47s
386:	learn: 8.5536968	total: 3.44s	remaining: 5.45s
387:	learn: 8.5420821	total: 3.44s	remaining: 5.43s
388:	learn: 8.5391433	total: 3.44s	remaining: 5.41s
389:	learn: 8.5317735	total: 3.44s	remaining: 5.39s
390:	learn: 8.5306830	total: 3.44s	remaining: 5.37s
391:	learn: 8.5163908	total: 3.45s	remaining: 5.35s

392:	learn: 8.5049964	total: 3.45s	remaining: 5.33s
393:	learn: 8.4930596	total: 3.45s	remaining: 5.31s
394:	learn: 8.4870958	total: 3.45s	remaining: 5.29s
395:	learn: 8.4804462	total: 3.45s	remaining: 5.26s
396:	learn: 8.4788105	total: 3.53s	remaining: 5.37s
397:	learn: 8.4699578	total: 3.54s	remaining: 5.35s
398:	learn: 8.4616737	total: 3.54s	remaining: 5.33s
399:	learn: 8.4549368	total: 3.54s	remaining: 5.31s
400:	learn: 8.4493618	total: 3.54s	remaining: 5.29s
401:	learn: 8.4469437	total: 3.54s	remaining: 5.27s
402:	learn: 8.4456056	total: 3.54s	remaining: 5.25s
403:	learn: 8.4370042	total: 3.54s	remaining: 5.23s
404:	learn: 8.4301576	total: 3.54s	remaining: 5.21s
405:	learn: 8.4224114	total: 3.54s	remaining: 5.19s
406:	learn: 8.4068444	total: 3.55s	remaining: 5.17s
407:	learn: 8.4055479	total: 3.55s	remaining: 5.15s
408:	learn: 8.4002246	total: 3.63s	remaining: 5.25s
409:	learn: 8.3927414	total: 3.63s	remaining: 5.23s
410:	learn: 8.3867854	total: 3.63s	remaining: 5.21s
411:	learn: 8.3760852	total: 3.63s	remaining: 5.19s
412:	learn: 8.3675315	total: 3.63s	remaining: 5.17s
413:	learn: 8.3594452	total: 3.64s	remaining: 5.15s
414:	learn: 8.3519088	total: 3.64s	remaining: 5.13s
415:	learn: 8.3443786	total: 3.64s	remaining: 5.11s
416:	learn: 8.3355874	total: 3.64s	remaining: 5.09s
417:	learn: 8.3293000	total: 3.64s	remaining: 5.07s
418:	learn: 8.3202163	total: 3.73s	remaining: 5.17s
419:	learn: 8.3156657	total: 3.73s	remaining: 5.15s
420:	learn: 8.3096959	total: 3.73s	remaining: 5.13s
421:	learn: 8.3084254	total: 3.73s	remaining: 5.11s
422:	learn: 8.3012303	total: 3.73s	remaining: 5.09s
423:	learn: 8.2954884	total: 3.73s	remaining: 5.07s
424:	learn: 8.2942795	total: 3.73s	remaining: 5.05s
425:	learn: 8.2847191	total: 3.73s	remaining: 5.03s
426:	learn: 8.2830510	total: 3.74s	remaining: 5.01s
427:	learn: 8.2754751	total: 3.74s	remaining: 5s
428:	learn: 8.2666130	total: 3.74s	remaining: 4.98s
429:	learn: 8.2564383	total: 3.75s	remaining: 4.96s
430:	learn: 8.2471320	total: 3.82s	remaining: 5.05s
431:	learn: 8.2409044	total: 3.82s	remaining: 5.03s
432:	learn: 8.2341968	total: 3.82s	remaining: 5.01s
433:	learn: 8.2262132	total: 3.83s	remaining: 4.99s
434:	learn: 8.2173701	total: 3.83s	remaining: 4.97s
435:	learn: 8.2163597	total: 3.83s	remaining: 4.95s
436:	learn: 8.2121804	total: 3.83s	remaining: 4.93s
437:	learn: 8.2059631	total: 3.83s	remaining: 4.92s
438:	learn: 8.2014687	total: 3.83s	remaining: 4.9s
439:	learn: 8.2002784	total: 3.83s	remaining: 4.88s
440:	learn: 8.1961957	total: 3.92s	remaining: 4.96s
441:	learn: 8.1861648	total: 3.92s	remaining: 4.95s
442:	learn: 8.1847581	total: 3.92s	remaining: 4.93s
443:	learn: 8.1763488	total: 3.92s	remaining: 4.91s
444:	learn: 8.1709763	total: 3.92s	remaining: 4.89s
445:	learn: 8.1633515	total: 3.92s	remaining: 4.87s
446:	learn: 8.1621726	total: 3.92s	remaining: 4.86s
447:	learn: 8.1533782	total: 3.92s	remaining: 4.84s
448:	learn: 8.1470955	total: 3.93s	remaining: 4.82s
449:	learn: 8.1458286	total: 3.93s	remaining: 4.8s
450:	learn: 8.1388954	total: 3.93s	remaining: 4.78s
451:	learn: 8.1314806	total: 3.93s	remaining: 4.76s
452:	learn: 8.1244901	total: 4.01s	remaining: 4.85s

453:	learn: 8.1182027	total: 4.01s	remaining: 4.83s
454:	learn: 8.1171079	total: 4.01s	remaining: 4.81s
455:	learn: 8.1161350	total: 4.02s	remaining: 4.79s
456:	learn: 8.1139109	total: 4.02s	remaining: 4.77s
457:	learn: 8.1076351	total: 4.02s	remaining: 4.76s
458:	learn: 8.0964632	total: 4.02s	remaining: 4.74s
459:	learn: 8.0845725	total: 4.02s	remaining: 4.72s
460:	learn: 8.0758314	total: 4.02s	remaining: 4.7s
461:	learn: 8.0744822	total: 4.02s	remaining: 4.69s
462:	learn: 8.0688749	total: 4.03s	remaining: 4.67s
463:	learn: 8.0619633	total: 4.11s	remaining: 4.75s
464:	learn: 8.0561013	total: 4.11s	remaining: 4.73s
465:	learn: 8.0534187	total: 4.11s	remaining: 4.71s
466:	learn: 8.0480722	total: 4.11s	remaining: 4.69s
467:	learn: 8.0461023	total: 4.11s	remaining: 4.68s
468:	learn: 8.0381233	total: 4.12s	remaining: 4.66s
469:	learn: 8.0293436	total: 4.12s	remaining: 4.64s
470:	learn: 8.0169877	total: 4.12s	remaining: 4.62s
471:	learn: 8.0097257	total: 4.12s	remaining: 4.61s
472:	learn: 8.0084849	total: 4.12s	remaining: 4.59s
473:	learn: 8.0038894	total: 4.12s	remaining: 4.57s
474:	learn: 8.0020311	total: 4.12s	remaining: 4.55s
475:	learn: 7.9948809	total: 4.21s	remaining: 4.63s
476:	learn: 7.9877680	total: 4.21s	remaining: 4.61s
477:	learn: 7.9825240	total: 4.21s	remaining: 4.59s
478:	learn: 7.9774512	total: 4.21s	remaining: 4.58s
479:	learn: 7.9659597	total: 4.21s	remaining: 4.56s
480:	learn: 7.9600753	total: 4.21s	remaining: 4.54s
481:	learn: 7.9552571	total: 4.21s	remaining: 4.53s
482:	learn: 7.9543733	total: 4.21s	remaining: 4.51s
483:	learn: 7.9504513	total: 4.22s	remaining: 4.5s
484:	learn: 7.9445464	total: 4.22s	remaining: 4.49s
485:	learn: 7.9433023	total: 4.23s	remaining: 4.47s
486:	learn: 7.9396612	total: 4.3s	remaining: 4.53s
487:	learn: 7.9360364	total: 4.3s	remaining: 4.51s
488:	learn: 7.9274989	total: 4.3s	remaining: 4.49s
489:	learn: 7.9206708	total: 4.3s	remaining: 4.48s
490:	learn: 7.9116084	total: 4.3s	remaining: 4.46s
491:	learn: 7.9069785	total: 4.3s	remaining: 4.44s
492:	learn: 7.9051612	total: 4.3s	remaining: 4.43s
493:	learn: 7.8957970	total: 4.31s	remaining: 4.41s
494:	learn: 7.8949407	total: 4.31s	remaining: 4.39s
495:	learn: 7.8939499	total: 4.31s	remaining: 4.38s
496:	learn: 7.8856919	total: 4.31s	remaining: 4.36s
497:	learn: 7.8742318	total: 4.39s	remaining: 4.43s
498:	learn: 7.8692964	total: 4.39s	remaining: 4.41s
499:	learn: 7.8591372	total: 4.39s	remaining: 4.39s
500:	learn: 7.8538958	total: 4.4s	remaining: 4.38s
501:	learn: 7.8411909	total: 4.4s	remaining: 4.36s
502:	learn: 7.8323275	total: 4.4s	remaining: 4.35s
503:	learn: 7.8226674	total: 4.4s	remaining: 4.33s
504:	learn: 7.8188750	total: 4.4s	remaining: 4.31s
505:	learn: 7.8057529	total: 4.4s	remaining: 4.3s
506:	learn: 7.8004233	total: 4.41s	remaining: 4.28s
507:	learn: 7.7901011	total: 4.49s	remaining: 4.35s
508:	learn: 7.7846453	total: 4.49s	remaining: 4.33s
509:	learn: 7.7791835	total: 4.49s	remaining: 4.31s
510:	learn: 7.7732614	total: 4.49s	remaining: 4.3s
511:	learn: 7.7666500	total: 4.5s	remaining: 4.28s
512:	learn: 7.7608434	total: 4.5s	remaining: 4.27s
513:	learn: 7.7531301	total: 4.5s	remaining: 4.25s

514:	learn: 7.7455217	total: 4.5s	remaining: 4.24s
515:	learn: 7.7445360	total: 4.5s	remaining: 4.22s
516:	learn: 7.7389208	total: 4.58s	remaining: 4.28s
517:	learn: 7.7318801	total: 4.58s	remaining: 4.27s
518:	learn: 7.7307980	total: 4.59s	remaining: 4.25s
519:	learn: 7.7246024	total: 4.59s	remaining: 4.23s
520:	learn: 7.7236564	total: 4.59s	remaining: 4.22s
521:	learn: 7.7177940	total: 4.59s	remaining: 4.2s
522:	learn: 7.7071993	total: 4.59s	remaining: 4.19s
523:	learn: 7.7062612	total: 4.59s	remaining: 4.17s
524:	learn: 7.7032652	total: 4.59s	remaining: 4.16s
525:	learn: 7.6951745	total: 4.59s	remaining: 4.14s
526:	learn: 7.6942666	total: 4.59s	remaining: 4.12s
527:	learn: 7.6860724	total: 4.6s	remaining: 4.11s
528:	learn: 7.6811834	total: 4.68s	remaining: 4.17s
529:	learn: 7.6669943	total: 4.68s	remaining: 4.15s
530:	learn: 7.6661061	total: 4.68s	remaining: 4.13s
531:	learn: 7.6589224	total: 4.68s	remaining: 4.12s
532:	learn: 7.6558424	total: 4.68s	remaining: 4.1s
533:	learn: 7.6463251	total: 4.68s	remaining: 4.09s
534:	learn: 7.6409537	total: 4.69s	remaining: 4.07s
535:	learn: 7.6401768	total: 4.69s	remaining: 4.06s
536:	learn: 7.6350931	total: 4.69s	remaining: 4.04s
537:	learn: 7.6288644	total: 4.69s	remaining: 4.03s
538:	learn: 7.6228982	total: 4.69s	remaining: 4.01s
539:	learn: 7.6107036	total: 4.77s	remaining: 4.07s
540:	learn: 7.6098172	total: 4.78s	remaining: 4.05s
541:	learn: 7.5985030	total: 4.78s	remaining: 4.04s
542:	learn: 7.5899805	total: 4.78s	remaining: 4.02s
543:	learn: 7.5891201	total: 4.78s	remaining: 4s
544:	learn: 7.5880563	total: 4.78s	remaining: 3.99s
545:	learn: 7.5872417	total: 4.78s	remaining: 3.98s
546:	learn: 7.5829906	total: 4.78s	remaining: 3.96s
547:	learn: 7.5737700	total: 4.78s	remaining: 3.94s
548:	learn: 7.5642503	total: 4.78s	remaining: 3.93s
549:	learn: 7.5586551	total: 4.79s	remaining: 3.92s
550:	learn: 7.5538980	total: 4.79s	remaining: 3.9s
551:	learn: 7.5501255	total: 4.87s	remaining: 3.95s
552:	learn: 7.5447416	total: 4.87s	remaining: 3.94s
553:	learn: 7.5439521	total: 4.87s	remaining: 3.92s
554:	learn: 7.5332343	total: 4.87s	remaining: 3.91s
555:	learn: 7.5324169	total: 4.88s	remaining: 3.89s
556:	learn: 7.5315885	total: 4.88s	remaining: 3.88s
557:	learn: 7.5249483	total: 4.88s	remaining: 3.86s
558:	learn: 7.5198172	total: 4.88s	remaining: 3.85s
559:	learn: 7.5122410	total: 4.89s	remaining: 3.84s
560:	learn: 7.5076922	total: 4.96s	remaining: 3.88s
561:	learn: 7.5028825	total: 4.97s	remaining: 3.87s
562:	learn: 7.5007356	total: 4.97s	remaining: 3.85s
563:	learn: 7.4999644	total: 4.97s	remaining: 3.84s
564:	learn: 7.4926004	total: 4.97s	remaining: 3.83s
565:	learn: 7.4889846	total: 4.97s	remaining: 3.81s
566:	learn: 7.4840823	total: 4.97s	remaining: 3.8s
567:	learn: 7.4733939	total: 4.97s	remaining: 3.78s
568:	learn: 7.4647642	total: 4.97s	remaining: 3.77s
569:	learn: 7.4583541	total: 4.97s	remaining: 3.75s
570:	learn: 7.4575255	total: 4.98s	remaining: 3.74s
571:	learn: 7.4507047	total: 5.06s	remaining: 3.79s
572:	learn: 7.4478713	total: 5.06s	remaining: 3.77s
573:	learn: 7.4409897	total: 5.06s	remaining: 3.76s
574:	learn: 7.4345311	total: 5.06s	remaining: 3.74s

575:	learn: 7.4270043	total: 5.07s	remaining: 3.73s
576:	learn: 7.4205169	total: 5.07s	remaining: 3.71s
577:	learn: 7.4138987	total: 5.07s	remaining: 3.7s
578:	learn: 7.4082871	total: 5.07s	remaining: 3.69s
579:	learn: 7.3996663	total: 5.07s	remaining: 3.67s
580:	learn: 7.3952397	total: 5.07s	remaining: 3.66s
581:	learn: 7.3887366	total: 5.07s	remaining: 3.64s
582:	learn: 7.3878555	total: 5.16s	remaining: 3.69s
583:	learn: 7.3844591	total: 5.16s	remaining: 3.67s
584:	learn: 7.3808869	total: 5.16s	remaining: 3.66s
585:	learn: 7.3740703	total: 5.16s	remaining: 3.65s
586:	learn: 7.3734979	total: 5.16s	remaining: 3.63s
587:	learn: 7.3728099	total: 5.16s	remaining: 3.62s
588:	learn: 7.3647817	total: 5.16s	remaining: 3.6s
589:	learn: 7.3621631	total: 5.17s	remaining: 3.59s
590:	learn: 7.3614416	total: 5.17s	remaining: 3.58s
591:	learn: 7.3607599	total: 5.17s	remaining: 3.56s
592:	learn: 7.3600643	total: 5.17s	remaining: 3.55s
593:	learn: 7.3540242	total: 5.17s	remaining: 3.53s
594:	learn: 7.3459675	total: 5.25s	remaining: 3.57s
595:	learn: 7.3416995	total: 5.25s	remaining: 3.56s
596:	learn: 7.3388280	total: 5.25s	remaining: 3.55s
597:	learn: 7.3381536	total: 5.25s	remaining: 3.53s
598:	learn: 7.3333241	total: 5.26s	remaining: 3.52s
599:	learn: 7.3269808	total: 5.26s	remaining: 3.5s
600:	learn: 7.3188363	total: 5.26s	remaining: 3.49s
601:	learn: 7.3125883	total: 5.26s	remaining: 3.48s
602:	learn: 7.3046971	total: 5.26s	remaining: 3.46s
603:	learn: 7.3004605	total: 5.26s	remaining: 3.45s
604:	learn: 7.2963295	total: 5.34s	remaining: 3.49s
605:	learn: 7.2908722	total: 5.35s	remaining: 3.48s
606:	learn: 7.2861721	total: 5.35s	remaining: 3.46s
607:	learn: 7.2803811	total: 5.35s	remaining: 3.45s
608:	learn: 7.2700855	total: 5.35s	remaining: 3.44s
609:	learn: 7.2653747	total: 5.35s	remaining: 3.42s
610:	learn: 7.2529813	total: 5.35s	remaining: 3.41s
611:	learn: 7.2455041	total: 5.35s	remaining: 3.39s
612:	learn: 7.2444473	total: 5.36s	remaining: 3.38s
613:	learn: 7.2389527	total: 5.36s	remaining: 3.37s
614:	learn: 7.2363797	total: 5.36s	remaining: 3.35s
615:	learn: 7.2309078	total: 5.37s	remaining: 3.34s
616:	learn: 7.2237713	total: 5.44s	remaining: 3.38s
617:	learn: 7.2184412	total: 5.44s	remaining: 3.36s
618:	learn: 7.2175086	total: 5.44s	remaining: 3.35s
619:	learn: 7.2128036	total: 5.44s	remaining: 3.34s
620:	learn: 7.2060402	total: 5.45s	remaining: 3.32s
621:	learn: 7.2014979	total: 5.45s	remaining: 3.31s
622:	learn: 7.2008556	total: 5.45s	remaining: 3.3s
623:	learn: 7.1968127	total: 5.45s	remaining: 3.28s
624:	learn: 7.1906643	total: 5.45s	remaining: 3.27s
625:	learn: 7.1825535	total: 5.45s	remaining: 3.26s
626:	learn: 7.1752638	total: 5.54s	remaining: 3.29s
627:	learn: 7.1657005	total: 5.54s	remaining: 3.28s
628:	learn: 7.1651920	total: 5.54s	remaining: 3.27s
629:	learn: 7.1610999	total: 5.54s	remaining: 3.25s
630:	learn: 7.1557755	total: 5.54s	remaining: 3.24s
631:	learn: 7.1468851	total: 5.54s	remaining: 3.23s
632:	learn: 7.1366619	total: 5.54s	remaining: 3.21s
633:	learn: 7.1272745	total: 5.54s	remaining: 3.2s
634:	learn: 7.1214612	total: 5.54s	remaining: 3.19s
635:	learn: 7.1146383	total: 5.55s	remaining: 3.17s

636:	learn: 7.1106642	total: 5.55s	remaining: 3.16s
637:	learn: 7.1040293	total: 5.63s	remaining: 3.2s
638:	learn: 7.1001920	total: 5.63s	remaining: 3.18s
639:	learn: 7.0966290	total: 5.63s	remaining: 3.17s
640:	learn: 7.0911212	total: 5.64s	remaining: 3.16s
641:	learn: 7.0836853	total: 5.64s	remaining: 3.14s
642:	learn: 7.0830040	total: 5.64s	remaining: 3.13s
643:	learn: 7.0781239	total: 5.64s	remaining: 3.12s
644:	learn: 7.0736324	total: 5.64s	remaining: 3.1s
645:	learn: 7.0646980	total: 5.64s	remaining: 3.09s
646:	learn: 7.0615179	total: 5.64s	remaining: 3.08s
647:	learn: 7.0549645	total: 5.64s	remaining: 3.07s
648:	learn: 7.0543138	total: 5.73s	remaining: 3.1s
649:	learn: 7.0504443	total: 5.73s	remaining: 3.08s
650:	learn: 7.0487874	total: 5.73s	remaining: 3.07s
651:	learn: 7.0451602	total: 5.73s	remaining: 3.06s
652:	learn: 7.0384533	total: 5.73s	remaining: 3.04s
653:	learn: 7.0291954	total: 5.73s	remaining: 3.03s
654:	learn: 7.0184902	total: 5.73s	remaining: 3.02s
655:	learn: 7.0172451	total: 5.73s	remaining: 3.01s
656:	learn: 7.0125313	total: 5.74s	remaining: 2.99s
657:	learn: 7.0084064	total: 5.74s	remaining: 2.98s
658:	learn: 6.9997163	total: 5.74s	remaining: 2.97s
659:	learn: 6.9948796	total: 5.82s	remaining: 3s
660:	learn: 6.9942452	total: 5.82s	remaining: 2.99s
661:	learn: 6.9864674	total: 5.82s	remaining: 2.97s
662:	learn: 6.9810023	total: 5.83s	remaining: 2.96s
663:	learn: 6.9761008	total: 5.83s	remaining: 2.95s
664:	learn: 6.9715968	total: 5.83s	remaining: 2.94s
665:	learn: 6.9634141	total: 5.83s	remaining: 2.92s
666:	learn: 6.9627701	total: 5.83s	remaining: 2.91s
667:	learn: 6.9563094	total: 5.83s	remaining: 2.9s
668:	learn: 6.9517282	total: 5.83s	remaining: 2.88s
669:	learn: 6.9474411	total: 5.92s	remaining: 2.91s
670:	learn: 6.9381374	total: 5.92s	remaining: 2.9s
671:	learn: 6.9321524	total: 5.92s	remaining: 2.89s
672:	learn: 6.9251289	total: 5.92s	remaining: 2.88s
673:	learn: 6.9217285	total: 5.92s	remaining: 2.86s
674:	learn: 6.9150434	total: 5.92s	remaining: 2.85s
675:	learn: 6.9075130	total: 5.92s	remaining: 2.84s
676:	learn: 6.9069617	total: 5.92s	remaining: 2.83s
677:	learn: 6.9009400	total: 5.93s	remaining: 2.81s
678:	learn: 6.8922133	total: 5.93s	remaining: 2.8s
679:	learn: 6.8890060	total: 5.93s	remaining: 2.79s
680:	learn: 6.8884046	total: 5.93s	remaining: 2.78s
681:	learn: 6.8823312	total: 6.01s	remaining: 2.8s
682:	learn: 6.8756927	total: 6.01s	remaining: 2.79s
683:	learn: 6.8691008	total: 6.01s	remaining: 2.78s
684:	learn: 6.8645742	total: 6.02s	remaining: 2.77s
685:	learn: 6.8598508	total: 6.02s	remaining: 2.75s
686:	learn: 6.8592915	total: 6.02s	remaining: 2.74s
687:	learn: 6.8536412	total: 6.02s	remaining: 2.73s
688:	learn: 6.8474723	total: 6.02s	remaining: 2.72s
689:	learn: 6.8432800	total: 6.02s	remaining: 2.71s
690:	learn: 6.8387141	total: 6.03s	remaining: 2.69s
691:	learn: 6.8346636	total: 6.11s	remaining: 2.72s
692:	learn: 6.8252712	total: 6.11s	remaining: 2.71s
693:	learn: 6.8246829	total: 6.11s	remaining: 2.69s
694:	learn: 6.8198449	total: 6.11s	remaining: 2.68s
695:	learn: 6.8127329	total: 6.11s	remaining: 2.67s
696:	learn: 6.8054040	total: 6.11s	remaining: 2.66s

697:	learn: 6.8025449	total: 6.12s	remaining: 2.65s
698:	learn: 6.7993004	total: 6.12s	remaining: 2.63s
699:	learn: 6.7956418	total: 6.12s	remaining: 2.62s
700:	learn: 6.7925635	total: 6.12s	remaining: 2.61s
701:	learn: 6.7898923	total: 6.2s	remaining: 2.63s
702:	learn: 6.7864236	total: 6.21s	remaining: 2.62s
703:	learn: 6.7809866	total: 6.21s	remaining: 2.61s
704:	learn: 6.7770671	total: 6.21s	remaining: 2.6s
705:	learn: 6.7717364	total: 6.21s	remaining: 2.58s
706:	learn: 6.7671655	total: 6.21s	remaining: 2.57s
707:	learn: 6.7666320	total: 6.21s	remaining: 2.56s
708:	learn: 6.7661913	total: 6.21s	remaining: 2.55s
709:	learn: 6.7656890	total: 6.21s	remaining: 2.54s
710:	learn: 6.7596381	total: 6.22s	remaining: 2.53s
711:	learn: 6.7536142	total: 6.29s	remaining: 2.54s
712:	learn: 6.7494547	total: 6.29s	remaining: 2.53s
713:	learn: 6.7488694	total: 6.29s	remaining: 2.52s
714:	learn: 6.7483874	total: 6.3s	remaining: 2.51s
715:	learn: 6.7478798	total: 6.3s	remaining: 2.5s
716:	learn: 6.7474461	total: 6.3s	remaining: 2.49s
717:	learn: 6.7432122	total: 6.3s	remaining: 2.47s
718:	learn: 6.7377519	total: 6.3s	remaining: 2.46s
719:	learn: 6.7372968	total: 6.3s	remaining: 2.45s
720:	learn: 6.7321517	total: 6.3s	remaining: 2.44s
721:	learn: 6.7270502	total: 6.3s	remaining: 2.43s
722:	learn: 6.7236160	total: 6.3s	remaining: 2.42s
723:	learn: 6.7183000	total: 6.39s	remaining: 2.44s
724:	learn: 6.7142556	total: 6.39s	remaining: 2.42s
725:	learn: 6.7110614	total: 6.39s	remaining: 2.41s
726:	learn: 6.7106680	total: 6.39s	remaining: 2.4s
727:	learn: 6.7067980	total: 6.39s	remaining: 2.39s
728:	learn: 6.7035350	total: 6.39s	remaining: 2.38s
729:	learn: 6.6981227	total: 6.39s	remaining: 2.37s
730:	learn: 6.6934922	total: 6.4s	remaining: 2.35s
731:	learn: 6.6901372	total: 6.4s	remaining: 2.34s
732:	learn: 6.6897263	total: 6.48s	remaining: 2.36s
733:	learn: 6.6845373	total: 6.49s	remaining: 2.35s
734:	learn: 6.6778918	total: 6.49s	remaining: 2.34s
735:	learn: 6.6698960	total: 6.49s	remaining: 2.33s
736:	learn: 6.6695129	total: 6.49s	remaining: 2.31s
737:	learn: 6.6657621	total: 6.49s	remaining: 2.3s
738:	learn: 6.6615098	total: 6.49s	remaining: 2.29s
739:	learn: 6.6547954	total: 6.49s	remaining: 2.28s
740:	learn: 6.6495178	total: 6.49s	remaining: 2.27s
741:	learn: 6.6436809	total: 6.49s	remaining: 2.26s
742:	learn: 6.6402684	total: 6.5s	remaining: 2.25s
743:	learn: 6.6343052	total: 6.5s	remaining: 2.23s
744:	learn: 6.6294933	total: 6.58s	remaining: 2.25s
745:	learn: 6.6230192	total: 6.58s	remaining: 2.24s
746:	learn: 6.6136154	total: 6.59s	remaining: 2.23s
747:	learn: 6.6080326	total: 6.59s	remaining: 2.22s
748:	learn: 6.6027558	total: 6.59s	remaining: 2.21s
749:	learn: 6.5993538	total: 6.59s	remaining: 2.2s
750:	learn: 6.5936371	total: 6.59s	remaining: 2.19s
751:	learn: 6.5916929	total: 6.59s	remaining: 2.17s
752:	learn: 6.5888491	total: 6.6s	remaining: 2.16s
753:	learn: 6.5821967	total: 6.6s	remaining: 2.15s
754:	learn: 6.5817459	total: 6.67s	remaining: 2.17s
755:	learn: 6.5812437	total: 6.67s	remaining: 2.15s
756:	learn: 6.5750728	total: 6.67s	remaining: 2.14s
757:	learn: 6.5703589	total: 6.68s	remaining: 2.13s

758:	learn: 6.5683648	total: 6.68s	remaining: 2.12s
759:	learn: 6.5639936	total: 6.68s	remaining: 2.11s
760:	learn: 6.5587060	total: 6.68s	remaining: 2.1s
761:	learn: 6.5534448	total: 6.68s	remaining: 2.09s
762:	learn: 6.5472303	total: 6.68s	remaining: 2.08s
763:	learn: 6.5410800	total: 6.68s	remaining: 2.06s
764:	learn: 6.5371825	total: 6.68s	remaining: 2.05s
765:	learn: 6.5325383	total: 6.76s	remaining: 2.07s
766:	learn: 6.5275655	total: 6.77s	remaining: 2.06s
767:	learn: 6.5179478	total: 6.77s	remaining: 2.04s
768:	learn: 6.5128784	total: 6.77s	remaining: 2.03s
769:	learn: 6.5089611	total: 6.77s	remaining: 2.02s
770:	learn: 6.5056605	total: 6.77s	remaining: 2.01s
771:	learn: 6.5020036	total: 6.78s	remaining: 2s
772:	learn: 6.4986696	total: 6.78s	remaining: 1.99s
773:	learn: 6.4889688	total: 6.78s	remaining: 1.98s
774:	learn: 6.4841875	total: 6.78s	remaining: 1.97s
775:	learn: 6.4837723	total: 6.78s	remaining: 1.96s
776:	learn: 6.4787764	total: 6.78s	remaining: 1.95s
777:	learn: 6.4758437	total: 6.86s	remaining: 1.96s
778:	learn: 6.4695864	total: 6.86s	remaining: 1.95s
779:	learn: 6.4638408	total: 6.86s	remaining: 1.94s
780:	learn: 6.4581409	total: 6.86s	remaining: 1.92s
781:	learn: 6.4539941	total: 6.86s	remaining: 1.91s
782:	learn: 6.4512080	total: 6.87s	remaining: 1.9s
783:	learn: 6.4507406	total: 6.87s	remaining: 1.89s
784:	learn: 6.4456913	total: 6.87s	remaining: 1.88s
785:	learn: 6.4414122	total: 6.87s	remaining: 1.87s
786:	learn: 6.4396522	total: 6.87s	remaining: 1.86s
787:	learn: 6.4336699	total: 6.95s	remaining: 1.87s
788:	learn: 6.4296704	total: 6.96s	remaining: 1.86s
789:	learn: 6.4231124	total: 6.96s	remaining: 1.85s
790:	learn: 6.4183726	total: 6.96s	remaining: 1.84s
791:	learn: 6.4147194	total: 6.96s	remaining: 1.83s
792:	learn: 6.4091734	total: 6.96s	remaining: 1.82s
793:	learn: 6.4065229	total: 6.96s	remaining: 1.81s
794:	learn: 6.4030947	total: 6.96s	remaining: 1.79s
795:	learn: 6.3978727	total: 6.96s	remaining: 1.78s
796:	learn: 6.3952565	total: 6.96s	remaining: 1.77s
797:	learn: 6.3934359	total: 6.96s	remaining: 1.76s
798:	learn: 6.3860951	total: 7.05s	remaining: 1.77s
799:	learn: 6.3771939	total: 7.05s	remaining: 1.76s
800:	learn: 6.3722231	total: 7.05s	remaining: 1.75s
801:	learn: 6.3678524	total: 7.05s	remaining: 1.74s
802:	learn: 6.3649329	total: 7.06s	remaining: 1.73s
803:	learn: 6.3598058	total: 7.06s	remaining: 1.72s
804:	learn: 6.3544548	total: 7.06s	remaining: 1.71s
805:	learn: 6.3499948	total: 7.06s	remaining: 1.7s
806:	learn: 6.3437306	total: 7.06s	remaining: 1.69s
807:	learn: 6.3433121	total: 7.06s	remaining: 1.68s
808:	learn: 6.3376008	total: 7.06s	remaining: 1.67s
809:	learn: 6.3335777	total: 7.14s	remaining: 1.68s
810:	learn: 6.3307202	total: 7.15s	remaining: 1.67s
811:	learn: 6.3252005	total: 7.15s	remaining: 1.65s
812:	learn: 6.3197462	total: 7.15s	remaining: 1.64s
813:	learn: 6.3162602	total: 7.15s	remaining: 1.63s
814:	learn: 6.3159449	total: 7.15s	remaining: 1.62s
815:	learn: 6.3106145	total: 7.15s	remaining: 1.61s
816:	learn: 6.3102181	total: 7.15s	remaining: 1.6s
817:	learn: 6.3084672	total: 7.15s	remaining: 1.59s
818:	learn: 6.3074085	total: 7.16s	remaining: 1.58s

819:	learn: 6.3031136	total: 7.16s	remaining: 1.57s
820:	learn: 6.2955883	total: 7.24s	remaining: 1.58s
821:	learn: 6.2925984	total: 7.24s	remaining: 1.57s
822:	learn: 6.2851372	total: 7.24s	remaining: 1.56s
823:	learn: 6.2847466	total: 7.24s	remaining: 1.55s
824:	learn: 6.2804701	total: 7.25s	remaining: 1.54s
825:	learn: 6.2752627	total: 7.25s	remaining: 1.53s
826:	learn: 6.2687749	total: 7.25s	remaining: 1.52s
827:	learn: 6.2641244	total: 7.25s	remaining: 1.5s
828:	learn: 6.2579675	total: 7.25s	remaining: 1.5s
829:	learn: 6.2530897	total: 7.25s	remaining: 1.49s
830:	learn: 6.2505120	total: 7.25s	remaining: 1.48s
831:	learn: 6.2501295	total: 7.34s	remaining: 1.48s
832:	learn: 6.2433770	total: 7.34s	remaining: 1.47s
833:	learn: 6.2406991	total: 7.34s	remaining: 1.46s
834:	learn: 6.2347989	total: 7.34s	remaining: 1.45s
835:	learn: 6.2319919	total: 7.34s	remaining: 1.44s
836:	learn: 6.2283904	total: 7.34s	remaining: 1.43s
837:	learn: 6.2246875	total: 7.34s	remaining: 1.42s
838:	learn: 6.2201257	total: 7.34s	remaining: 1.41s
839:	learn: 6.2161194	total: 7.35s	remaining: 1.4s
840:	learn: 6.2132353	total: 7.35s	remaining: 1.39s
841:	learn: 6.2082356	total: 7.35s	remaining: 1.38s
842:	learn: 6.2042502	total: 7.43s	remaining: 1.38s
843:	learn: 6.2016750	total: 7.43s	remaining: 1.37s
844:	learn: 6.1978542	total: 7.43s	remaining: 1.36s
845:	learn: 6.1962172	total: 7.44s	remaining: 1.35s
846:	learn: 6.1926171	total: 7.44s	remaining: 1.34s
847:	learn: 6.1922525	total: 7.44s	remaining: 1.33s
848:	learn: 6.1840851	total: 7.44s	remaining: 1.32s
849:	learn: 6.1749585	total: 7.44s	remaining: 1.31s
850:	learn: 6.1697397	total: 7.44s	remaining: 1.3s
851:	learn: 6.1660961	total: 7.44s	remaining: 1.29s
852:	learn: 6.1638187	total: 7.53s	remaining: 1.3s
853:	learn: 6.1585723	total: 7.53s	remaining: 1.29s
854:	learn: 6.1540487	total: 7.53s	remaining: 1.28s
855:	learn: 6.1487508	total: 7.53s	remaining: 1.27s
856:	learn: 6.1432124	total: 7.53s	remaining: 1.26s
857:	learn: 6.1390027	total: 7.53s	remaining: 1.25s
858:	learn: 6.1328385	total: 7.54s	remaining: 1.24s
859:	learn: 6.1270590	total: 7.54s	remaining: 1.23s
860:	learn: 6.1188492	total: 7.54s	remaining: 1.22s
861:	learn: 6.1147730	total: 7.54s	remaining: 1.21s
862:	learn: 6.1144750	total: 7.54s	remaining: 1.2s
863:	learn: 6.1118778	total: 7.62s	remaining: 1.2s
864:	learn: 6.1067009	total: 7.63s	remaining: 1.19s
865:	learn: 6.0979768	total: 7.63s	remaining: 1.18s
866:	learn: 6.0976891	total: 7.63s	remaining: 1.17s
867:	learn: 6.0957891	total: 7.63s	remaining: 1.16s
868:	learn: 6.0890428	total: 7.63s	remaining: 1.15s
869:	learn: 6.0839628	total: 7.63s	remaining: 1.14s
870:	learn: 6.0803555	total: 7.63s	remaining: 1.13s
871:	learn: 6.0729315	total: 7.63s	remaining: 1.12s
872:	learn: 6.0726396	total: 7.63s	remaining: 1.11s
873:	learn: 6.0690786	total: 7.63s	remaining: 1.1s
874:	learn: 6.0624184	total: 7.64s	remaining: 1.09s
875:	learn: 6.0554417	total: 7.72s	remaining: 1.09s
876:	learn: 6.0515144	total: 7.72s	remaining: 1.08s
877:	learn: 6.0479359	total: 7.72s	remaining: 1.07s
878:	learn: 6.0441706	total: 7.72s	remaining: 1.06s
879:	learn: 6.0438883	total: 7.73s	remaining: 1.05s

880:	learn: 6.0390893	total: 7.73s	remaining: 1.04s
881:	learn: 6.0346400	total: 7.73s	remaining: 1.03s
882:	learn: 6.0297794	total: 7.73s	remaining: 1.02s
883:	learn: 6.0268531	total: 7.73s	remaining: 1.01s
884:	learn: 6.0207973	total: 7.73s	remaining: 1s
885:	learn: 6.0145681	total: 7.73s	remaining: 995ms
886:	learn: 6.0095890	total: 7.82s	remaining: 996ms
887:	learn: 6.0061098	total: 7.82s	remaining: 986ms
888:	learn: 6.0027271	total: 7.82s	remaining: 976ms
889:	learn: 6.0024848	total: 7.82s	remaining: 966ms
890:	learn: 5.9994216	total: 7.82s	remaining: 957ms
891:	learn: 5.9960943	total: 7.82s	remaining: 947ms
892:	learn: 5.9910331	total: 7.82s	remaining: 937ms
893:	learn: 5.9864680	total: 7.82s	remaining: 928ms
894:	learn: 5.9851886	total: 7.82s	remaining: 918ms
895:	learn: 5.9825440	total: 7.83s	remaining: 908ms
896:	learn: 5.9774430	total: 7.83s	remaining: 899ms
897:	learn: 5.9698976	total: 7.91s	remaining: 899ms
898:	learn: 5.9654303	total: 7.91s	remaining: 889ms
899:	learn: 5.9608606	total: 7.91s	remaining: 879ms
900:	learn: 5.9569340	total: 7.91s	remaining: 870ms
901:	learn: 5.9544047	total: 7.92s	remaining: 860ms
902:	learn: 5.9489415	total: 7.92s	remaining: 850ms
903:	learn: 5.9451513	total: 7.92s	remaining: 841ms
904:	learn: 5.9417570	total: 7.92s	remaining: 831ms
905:	learn: 5.9414916	total: 7.92s	remaining: 822ms
906:	learn: 5.9350090	total: 7.92s	remaining: 812ms
907:	learn: 5.9319165	total: 7.93s	remaining: 803ms
908:	learn: 5.9267406	total: 8.01s	remaining: 802ms
909:	learn: 5.9188835	total: 8.01s	remaining: 792ms
910:	learn: 5.9140620	total: 8.01s	remaining: 782ms
911:	learn: 5.9082336	total: 8.01s	remaining: 773ms
912:	learn: 5.9006266	total: 8.01s	remaining: 763ms
913:	learn: 5.9003071	total: 8.01s	remaining: 754ms
914:	learn: 5.8964166	total: 8.01s	remaining: 744ms
915:	learn: 5.8885492	total: 8.01s	remaining: 735ms
916:	learn: 5.8849293	total: 8.02s	remaining: 726ms
917:	learn: 5.8783786	total: 8.02s	remaining: 716ms
918:	learn: 5.8718748	total: 8.02s	remaining: 707ms
919:	learn: 5.8671270	total: 8.1s	remaining: 705ms
920:	learn: 5.8642614	total: 8.1s	remaining: 695ms
921:	learn: 5.8594440	total: 8.11s	remaining: 686ms
922:	learn: 5.8567973	total: 8.11s	remaining: 676ms
923:	learn: 5.8527921	total: 8.11s	remaining: 667ms
924:	learn: 5.8497257	total: 8.11s	remaining: 658ms
925:	learn: 5.8494966	total: 8.11s	remaining: 648ms
926:	learn: 5.8420177	total: 8.11s	remaining: 639ms
927:	learn: 5.8395430	total: 8.11s	remaining: 630ms
928:	learn: 5.8370117	total: 8.2s	remaining: 627ms
929:	learn: 5.8321467	total: 8.2s	remaining: 617ms
930:	learn: 5.8261281	total: 8.2s	remaining: 608ms
931:	learn: 5.8209527	total: 8.2s	remaining: 598ms
932:	learn: 5.8164053	total: 8.2s	remaining: 589ms
933:	learn: 5.8146573	total: 8.2s	remaining: 580ms
934:	learn: 5.8127261	total: 8.21s	remaining: 570ms
935:	learn: 5.8101706	total: 8.21s	remaining: 561ms
936:	learn: 5.8099233	total: 8.21s	remaining: 552ms
937:	learn: 5.8040874	total: 8.21s	remaining: 543ms
938:	learn: 5.8010493	total: 8.21s	remaining: 533ms
939:	learn: 5.7985063	total: 8.29s	remaining: 529ms
940:	learn: 5.7969046	total: 8.29s	remaining: 520ms

941:	learn: 5.7883360	total: 8.29s	remaining: 510ms
942:	learn: 5.7858153	total: 8.29s	remaining: 501ms
943:	learn: 5.7846323	total: 8.29s	remaining: 492ms
944:	learn: 5.7822730	total: 8.29s	remaining: 483ms
945:	learn: 5.7769083	total: 8.29s	remaining: 474ms
946:	learn: 5.7718581	total: 8.3s	remaining: 464ms
947:	learn: 5.7682709	total: 8.3s	remaining: 455ms
948:	learn: 5.7648513	total: 8.3s	remaining: 446ms
949:	learn: 5.7597977	total: 8.3s	remaining: 437ms
950:	learn: 5.7546988	total: 8.38s	remaining: 432ms
951:	learn: 5.7526611	total: 8.38s	remaining: 423ms
952:	learn: 5.7514451	total: 8.39s	remaining: 414ms
953:	learn: 5.7450802	total: 8.39s	remaining: 404ms
954:	learn: 5.7392125	total: 8.39s	remaining: 395ms
955:	learn: 5.7333416	total: 8.39s	remaining: 386ms
956:	learn: 5.7281384	total: 8.39s	remaining: 377ms
957:	learn: 5.7241157	total: 8.39s	remaining: 368ms
958:	learn: 5.7188187	total: 8.39s	remaining: 359ms
959:	learn: 5.7151010	total: 8.4s	remaining: 350ms
960:	learn: 5.7101723	total: 8.4s	remaining: 341ms
961:	learn: 5.7078590	total: 8.48s	remaining: 335ms
962:	learn: 5.7076511	total: 8.48s	remaining: 326ms
963:	learn: 5.7038632	total: 8.48s	remaining: 317ms
964:	learn: 5.6999028	total: 8.48s	remaining: 308ms
965:	learn: 5.6996743	total: 8.48s	remaining: 299ms
966:	learn: 5.6976456	total: 8.48s	remaining: 290ms
967:	learn: 5.6949701	total: 8.49s	remaining: 281ms
968:	learn: 5.6912612	total: 8.49s	remaining: 272ms
969:	learn: 5.6884241	total: 8.49s	remaining: 263ms
970:	learn: 5.6835502	total: 8.49s	remaining: 254ms
971:	learn: 5.6833271	total: 8.49s	remaining: 245ms
972:	learn: 5.6794138	total: 8.57s	remaining: 238ms
973:	learn: 5.6736206	total: 8.57s	remaining: 229ms
974:	learn: 5.6682668	total: 8.58s	remaining: 220ms
975:	learn: 5.6603110	total: 8.58s	remaining: 211ms
976:	learn: 5.6550583	total: 8.58s	remaining: 202ms
977:	learn: 5.6510746	total: 8.58s	remaining: 193ms
978:	learn: 5.6508467	total: 8.58s	remaining: 184ms
979:	learn: 5.6473894	total: 8.58s	remaining: 175ms
980:	learn: 5.6426242	total: 8.58s	remaining: 166ms
981:	learn: 5.6385868	total: 8.59s	remaining: 157ms
982:	learn: 5.6354547	total: 8.59s	remaining: 148ms
983:	learn: 5.6313994	total: 8.59s	remaining: 140ms
984:	learn: 5.6282897	total: 8.67s	remaining: 132ms
985:	learn: 5.6255878	total: 8.67s	remaining: 123ms
986:	learn: 5.6245979	total: 8.67s	remaining: 114ms
987:	learn: 5.6203210	total: 8.67s	remaining: 105ms
988:	learn: 5.6164998	total: 8.67s	remaining: 96.5ms
989:	learn: 5.6122545	total: 8.68s	remaining: 87.6ms
990:	learn: 5.6091788	total: 8.68s	remaining: 78.8ms
991:	learn: 5.6059025	total: 8.68s	remaining: 70ms
992:	learn: 5.5997845	total: 8.68s	remaining: 61.2ms
993:	learn: 5.5995680	total: 8.68s	remaining: 52.4ms
994:	learn: 5.5951226	total: 8.68s	remaining: 43.6ms
995:	learn: 5.5895183	total: 8.68s	remaining: 34.9ms
996:	learn: 5.5843734	total: 8.77s	remaining: 26.4ms
997:	learn: 5.5784213	total: 8.77s	remaining: 17.6ms
998:	learn: 5.5781633	total: 8.77s	remaining: 8.78ms
999:	learn: 5.5753078	total: 8.77s	remaining: 0us
0:	learn: 20.3957101	total: 1.35ms	remaining: 1.35s
1:	learn: 20.3292879	total: 2.75ms	remaining: 1.37s

2:	learn: 20.2638318	total: 3.89ms	remaining: 1.29s
3:	learn: 20.2077584	total: 5.08ms	remaining: 1.26s
4:	learn: 20.1429093	total: 6.22ms	remaining: 1.24s
5:	learn: 20.0813443	total: 7.44ms	remaining: 1.23s
6:	learn: 20.0148335	total: 8.58ms	remaining: 1.22s
7:	learn: 19.9433616	total: 9.72ms	remaining: 1.21s
8:	learn: 19.8837531	total: 10.9ms	remaining: 1.2s
9:	learn: 19.8240827	total: 12ms	remaining: 1.19s
10:	learn: 19.7498563	total: 13.2ms	remaining: 1.19s
11:	learn: 19.6824099	total: 49.2ms	remaining: 4.05s
12:	learn: 19.6207937	total: 50.4ms	remaining: 3.83s
13:	learn: 19.5597987	total: 51.6ms	remaining: 3.63s
14:	learn: 19.4998509	total: 52.9ms	remaining: 3.48s
15:	learn: 19.4430231	total: 54.3ms	remaining: 3.34s
16:	learn: 19.3886888	total: 55.5ms	remaining: 3.21s
17:	learn: 19.3333560	total: 56.5ms	remaining: 3.08s
18:	learn: 19.2758990	total: 57.6ms	remaining: 2.97s
19:	learn: 19.2181585	total: 58.7ms	remaining: 2.87s
20:	learn: 19.1597843	total: 59.7ms	remaining: 2.79s
21:	learn: 19.1070001	total: 60.8ms	remaining: 2.7s
22:	learn: 19.0617006	total: 145ms	remaining: 6.15s
23:	learn: 19.0045141	total: 146ms	remaining: 5.94s
24:	learn: 18.9485164	total: 147ms	remaining: 5.74s
25:	learn: 18.9085788	total: 148ms	remaining: 5.56s
26:	learn: 18.8583358	total: 149ms	remaining: 5.39s
27:	learn: 18.8067826	total: 151ms	remaining: 5.23s
28:	learn: 18.7583863	total: 152ms	remaining: 5.08s
29:	learn: 18.7110443	total: 153ms	remaining: 4.94s
30:	learn: 18.6647188	total: 154ms	remaining: 4.81s
31:	learn: 18.5556441	total: 155ms	remaining: 4.68s
32:	learn: 18.5079665	total: 242ms	remaining: 7.08s
33:	learn: 18.4624197	total: 243ms	remaining: 6.91s
34:	learn: 18.4159962	total: 244ms	remaining: 6.74s
35:	learn: 18.3696178	total: 246ms	remaining: 6.57s
36:	learn: 18.3262173	total: 247ms	remaining: 6.42s
37:	learn: 18.2801274	total: 248ms	remaining: 6.27s
38:	learn: 18.2317742	total: 249ms	remaining: 6.13s
39:	learn: 18.1881974	total: 250ms	remaining: 6s
40:	learn: 18.1465900	total: 251ms	remaining: 5.87s
41:	learn: 18.0994079	total: 252ms	remaining: 5.75s
42:	learn: 18.0559055	total: 253ms	remaining: 5.64s
43:	learn: 17.9512975	total: 337ms	remaining: 7.32s
44:	learn: 17.9071694	total: 338ms	remaining: 7.17s
45:	learn: 17.8679543	total: 339ms	remaining: 7.03s
46:	learn: 17.8293505	total: 340ms	remaining: 6.9s
47:	learn: 17.7886912	total: 341ms	remaining: 6.77s
48:	learn: 17.7506885	total: 342ms	remaining: 6.65s
49:	learn: 17.7095253	total: 344ms	remaining: 6.54s
50:	learn: 17.6162989	total: 346ms	remaining: 6.43s
51:	learn: 17.5777835	total: 347ms	remaining: 6.32s
52:	learn: 17.5365520	total: 348ms	remaining: 6.21s
53:	learn: 17.4983445	total: 349ms	remaining: 6.11s
54:	learn: 17.3945822	total: 433ms	remaining: 7.44s
55:	learn: 17.2968197	total: 435ms	remaining: 7.33s
56:	learn: 17.2625010	total: 437ms	remaining: 7.23s
57:	learn: 17.2282223	total: 439ms	remaining: 7.13s
58:	learn: 17.1937656	total: 440ms	remaining: 7.02s
59:	learn: 17.1592037	total: 442ms	remaining: 6.93s
60:	learn: 17.1257603	total: 444ms	remaining: 6.84s
61:	learn: 16.9852937	total: 451ms	remaining: 6.82s
62:	learn: 16.8973278	total: 530ms	remaining: 7.88s

63:	learn: 16.8651379	total: 531ms	remaining: 7.76s
64:	learn: 16.8321619	total: 532ms	remaining: 7.66s
65:	learn: 16.7420759	total: 533ms	remaining: 7.55s
66:	learn: 16.7110084	total: 534ms	remaining: 7.44s
67:	learn: 16.6801252	total: 536ms	remaining: 7.34s
68:	learn: 16.5748302	total: 537ms	remaining: 7.24s
69:	learn: 16.5450428	total: 538ms	remaining: 7.14s
70:	learn: 16.5040155	total: 539ms	remaining: 7.05s
71:	learn: 16.3968409	total: 540ms	remaining: 6.96s
72:	learn: 16.3115968	total: 626ms	remaining: 7.95s
73:	learn: 16.2777523	total: 627ms	remaining: 7.85s
74:	learn: 16.2500027	total: 628ms	remaining: 7.75s
75:	learn: 16.2202868	total: 631ms	remaining: 7.67s
76:	learn: 16.1209475	total: 633ms	remaining: 7.58s
77:	learn: 16.0923917	total: 634ms	remaining: 7.49s
78:	learn: 16.0373940	total: 635ms	remaining: 7.4s
79:	learn: 15.9295717	total: 636ms	remaining: 7.32s
80:	learn: 15.9025004	total: 637ms	remaining: 7.23s
81:	learn: 15.8768567	total: 638ms	remaining: 7.15s
82:	learn: 15.8434094	total: 721ms	remaining: 7.97s
83:	learn: 15.8172175	total: 723ms	remaining: 7.88s
84:	learn: 15.7918560	total: 724ms	remaining: 7.79s
85:	learn: 15.7668305	total: 725ms	remaining: 7.71s
86:	learn: 15.7414848	total: 726ms	remaining: 7.62s
87:	learn: 15.7135293	total: 727ms	remaining: 7.54s
88:	learn: 15.6829552	total: 728ms	remaining: 7.46s
89:	learn: 15.6572900	total: 729ms	remaining: 7.38s
90:	learn: 15.6346265	total: 731ms	remaining: 7.3s
91:	learn: 15.5426725	total: 732ms	remaining: 7.22s
92:	learn: 15.5199284	total: 733ms	remaining: 7.15s
93:	learn: 15.4968521	total: 734ms	remaining: 7.07s
94:	learn: 15.4148799	total: 818ms	remaining: 7.79s
95:	learn: 15.3560770	total: 819ms	remaining: 7.72s
96:	learn: 15.2671498	total: 821ms	remaining: 7.64s
97:	learn: 15.2030641	total: 822ms	remaining: 7.57s
98:	learn: 15.1765876	total: 824ms	remaining: 7.5s
99:	learn: 15.1086156	total: 825ms	remaining: 7.42s
100:	learn: 15.0406675	total: 826ms	remaining: 7.35s
101:	learn: 15.0162828	total: 827ms	remaining: 7.28s
102:	learn: 14.9637857	total: 828ms	remaining: 7.21s
103:	learn: 14.9084100	total: 829ms	remaining: 7.14s
104:	learn: 14.8538413	total: 913ms	remaining: 7.79s
105:	learn: 14.7740414	total: 915ms	remaining: 7.71s
106:	learn: 14.7550565	total: 916ms	remaining: 7.64s
107:	learn: 14.6930671	total: 917ms	remaining: 7.57s
108:	learn: 14.6168562	total: 918ms	remaining: 7.5s
109:	learn: 14.5972374	total: 919ms	remaining: 7.44s
110:	learn: 14.5776895	total: 920ms	remaining: 7.37s
111:	learn: 14.4929352	total: 921ms	remaining: 7.3s
112:	learn: 14.4747128	total: 922ms	remaining: 7.24s
113:	learn: 14.4572525	total: 924ms	remaining: 7.18s
114:	learn: 14.4297042	total: 925ms	remaining: 7.12s
115:	learn: 14.4106833	total: 1.01s	remaining: 7.69s
116:	learn: 14.3930651	total: 1.01s	remaining: 7.62s
117:	learn: 14.3705345	total: 1.01s	remaining: 7.56s
118:	learn: 14.3503400	total: 1.01s	remaining: 7.49s
119:	learn: 14.3113741	total: 1.01s	remaining: 7.43s
120:	learn: 14.2527551	total: 1.02s	remaining: 7.39s
121:	learn: 14.1801756	total: 1.02s	remaining: 7.33s
122:	learn: 14.1616954	total: 1.02s	remaining: 7.27s
123:	learn: 14.1138216	total: 1.02s	remaining: 7.21s

124:	learn: 14.0652396	total: 1.02s	remaining: 7.15s
125:	learn: 14.0489772	total: 1.02s	remaining: 7.1s
126:	learn: 14.0293684	total: 1.1s	remaining: 7.59s
127:	learn: 13.9958876	total: 1.1s	remaining: 7.53s
128:	learn: 13.9468942	total: 1.11s	remaining: 7.47s
129:	learn: 13.8836616	total: 1.11s	remaining: 7.41s
130:	learn: 13.8348332	total: 1.11s	remaining: 7.35s
131:	learn: 13.7766591	total: 1.11s	remaining: 7.3s
132:	learn: 13.7373027	total: 1.11s	remaining: 7.24s
133:	learn: 13.7204051	total: 1.11s	remaining: 7.19s
134:	learn: 13.6859216	total: 1.11s	remaining: 7.13s
135:	learn: 13.6707658	total: 1.11s	remaining: 7.08s
136:	learn: 13.6540684	total: 1.11s	remaining: 7.03s
137:	learn: 13.6364740	total: 1.2s	remaining: 7.49s
138:	learn: 13.6212147	total: 1.2s	remaining: 7.44s
139:	learn: 13.5937871	total: 1.2s	remaining: 7.38s
140:	learn: 13.5636207	total: 1.2s	remaining: 7.33s
141:	learn: 13.5499048	total: 1.2s	remaining: 7.28s
142:	learn: 13.4848517	total: 1.21s	remaining: 7.23s
143:	learn: 13.4720273	total: 1.21s	remaining: 7.18s
144:	learn: 13.4091862	total: 1.21s	remaining: 7.13s
145:	learn: 13.3932618	total: 1.21s	remaining: 7.08s
146:	learn: 13.3396693	total: 1.21s	remaining: 7.03s
147:	learn: 13.3222705	total: 1.21s	remaining: 6.98s
148:	learn: 13.2753503	total: 1.29s	remaining: 7.39s
149:	learn: 13.2602931	total: 1.3s	remaining: 7.34s
150:	learn: 13.2489596	total: 1.3s	remaining: 7.29s
151:	learn: 13.2148195	total: 1.3s	remaining: 7.24s
152:	learn: 13.2031664	total: 1.3s	remaining: 7.19s
153:	learn: 13.1890100	total: 1.3s	remaining: 7.14s
154:	learn: 13.1634721	total: 1.3s	remaining: 7.09s
155:	learn: 13.1509967	total: 1.3s	remaining: 7.05s
156:	learn: 13.1022346	total: 1.3s	remaining: 7s
157:	learn: 13.0904618	total: 1.3s	remaining: 6.95s
158:	learn: 13.0518977	total: 1.31s	remaining: 6.91s
159:	learn: 13.0177001	total: 1.31s	remaining: 6.86s
160:	learn: 13.0061446	total: 1.39s	remaining: 7.25s
161:	learn: 12.9933313	total: 1.39s	remaining: 7.21s
162:	learn: 12.9815106	total: 1.39s	remaining: 7.16s
163:	learn: 12.9615807	total: 1.4s	remaining: 7.12s
164:	learn: 12.9519529	total: 1.4s	remaining: 7.08s
165:	learn: 12.9222706	total: 1.4s	remaining: 7.04s
166:	learn: 12.9093085	total: 1.4s	remaining: 7s
167:	learn: 12.8977130	total: 1.49s	remaining: 7.36s
168:	learn: 12.8817785	total: 1.49s	remaining: 7.32s
169:	learn: 12.8656173	total: 1.49s	remaining: 7.28s
170:	learn: 12.8528063	total: 1.49s	remaining: 7.23s
171:	learn: 12.8401895	total: 1.49s	remaining: 7.18s
172:	learn: 12.8287889	total: 1.49s	remaining: 7.14s
173:	learn: 12.8118682	total: 1.49s	remaining: 7.09s
174:	learn: 12.7816676	total: 1.5s	remaining: 7.05s
175:	learn: 12.7433557	total: 1.5s	remaining: 7.01s
176:	learn: 12.7055895	total: 1.5s	remaining: 6.96s
177:	learn: 12.6657729	total: 1.5s	remaining: 6.92s
178:	learn: 12.6416065	total: 1.5s	remaining: 6.88s
179:	learn: 12.5932152	total: 1.58s	remaining: 7.21s
180:	learn: 12.5487075	total: 1.58s	remaining: 7.17s
181:	learn: 12.5362422	total: 1.58s	remaining: 7.13s
182:	learn: 12.5266984	total: 1.59s	remaining: 7.08s
183:	learn: 12.5157782	total: 1.59s	remaining: 7.04s
184:	learn: 12.5076845	total: 1.59s	remaining: 7s

185:	learn: 12.4767590	total: 1.59s	remaining: 6.96s
186:	learn: 12.4624101	total: 1.59s	remaining: 6.92s
187:	learn: 12.4534570	total: 1.59s	remaining: 6.88s
188:	learn: 12.4216077	total: 1.59s	remaining: 6.84s
189:	learn: 12.3910480	total: 1.68s	remaining: 7.16s
190:	learn: 12.3824685	total: 1.68s	remaining: 7.12s
191:	learn: 12.3740536	total: 1.68s	remaining: 7.08s
192:	learn: 12.3669534	total: 1.68s	remaining: 7.04s
193:	learn: 12.3345088	total: 1.68s	remaining: 7s
194:	learn: 12.3000374	total: 1.68s	remaining: 6.96s
195:	learn: 12.2902807	total: 1.69s	remaining: 6.92s
196:	learn: 12.2810774	total: 1.69s	remaining: 6.88s
197:	learn: 12.2716833	total: 1.69s	remaining: 6.84s
198:	learn: 12.2378542	total: 1.69s	remaining: 6.81s
199:	learn: 12.2279758	total: 1.77s	remaining: 7.09s
200:	learn: 12.2199731	total: 1.77s	remaining: 7.06s
201:	learn: 12.2112808	total: 1.78s	remaining: 7.02s
202:	learn: 12.1942706	total: 1.78s	remaining: 6.98s
203:	learn: 12.1821789	total: 1.78s	remaining: 6.95s
204:	learn: 12.1727522	total: 1.78s	remaining: 6.91s
205:	learn: 12.1661234	total: 1.78s	remaining: 6.87s
206:	learn: 12.1413380	total: 1.78s	remaining: 6.83s
207:	learn: 12.1105011	total: 1.78s	remaining: 6.79s
208:	learn: 12.0845286	total: 1.78s	remaining: 6.76s
209:	learn: 12.0565168	total: 1.79s	remaining: 6.72s
210:	learn: 12.0294118	total: 1.87s	remaining: 6.99s
211:	learn: 12.0238541	total: 1.87s	remaining: 6.96s
212:	learn: 12.0063323	total: 1.87s	remaining: 6.92s
213:	learn: 11.9734797	total: 1.87s	remaining: 6.88s
214:	learn: 11.9572763	total: 1.88s	remaining: 6.85s
215:	learn: 11.9505865	total: 1.88s	remaining: 6.82s
216:	learn: 11.9439589	total: 1.88s	remaining: 6.78s
217:	learn: 11.9214304	total: 1.88s	remaining: 6.75s
218:	learn: 11.9144432	total: 1.88s	remaining: 6.71s
219:	learn: 11.8944100	total: 1.88s	remaining: 6.67s
220:	learn: 11.8758221	total: 1.88s	remaining: 6.64s
221:	learn: 11.8700698	total: 1.96s	remaining: 6.88s
222:	learn: 11.8640773	total: 1.97s	remaining: 6.85s
223:	learn: 11.8584413	total: 1.97s	remaining: 6.82s
224:	learn: 11.8522883	total: 1.97s	remaining: 6.78s
225:	learn: 11.8449180	total: 1.97s	remaining: 6.75s
226:	learn: 11.8280402	total: 1.97s	remaining: 6.71s
227:	learn: 11.8205570	total: 1.97s	remaining: 6.68s
228:	learn: 11.7944329	total: 1.97s	remaining: 6.65s
229:	learn: 11.7881118	total: 1.98s	remaining: 6.61s
230:	learn: 11.7687855	total: 1.98s	remaining: 6.58s
231:	learn: 11.7382568	total: 1.98s	remaining: 6.54s
232:	learn: 11.7327807	total: 2.06s	remaining: 6.78s
233:	learn: 11.7018768	total: 2.06s	remaining: 6.75s
234:	learn: 11.6910622	total: 2.06s	remaining: 6.71s
235:	learn: 11.6793154	total: 2.06s	remaining: 6.68s
236:	learn: 11.6740628	total: 2.06s	remaining: 6.65s
237:	learn: 11.6507104	total: 2.07s	remaining: 6.62s
238:	learn: 11.6407562	total: 2.07s	remaining: 6.58s
239:	learn: 11.6351431	total: 2.07s	remaining: 6.55s
240:	learn: 11.6219954	total: 2.07s	remaining: 6.52s
241:	learn: 11.6136930	total: 2.07s	remaining: 6.49s
242:	learn: 11.5985820	total: 2.07s	remaining: 6.46s
243:	learn: 11.5588078	total: 2.15s	remaining: 6.68s
244:	learn: 11.5343480	total: 2.16s	remaining: 6.65s
245:	learn: 11.5260904	total: 2.16s	remaining: 6.61s

246:	learn: 11.5068810	total: 2.16s	remaining: 6.58s
247:	learn: 11.5010491	total: 2.16s	remaining: 6.55s
248:	learn: 11.4880287	total: 2.16s	remaining: 6.52s
249:	learn: 11.4769514	total: 2.16s	remaining: 6.49s
250:	learn: 11.4696014	total: 2.16s	remaining: 6.46s
251:	learn: 11.4501505	total: 2.16s	remaining: 6.42s
252:	learn: 11.4446101	total: 2.17s	remaining: 6.39s
253:	learn: 11.4405159	total: 2.17s	remaining: 6.36s
254:	learn: 11.4237915	total: 2.25s	remaining: 6.58s
255:	learn: 11.3860164	total: 2.25s	remaining: 6.55s
256:	learn: 11.3718349	total: 2.25s	remaining: 6.51s
257:	learn: 11.3487005	total: 2.25s	remaining: 6.49s
258:	learn: 11.3427875	total: 2.26s	remaining: 6.45s
259:	learn: 11.3159543	total: 2.26s	remaining: 6.43s
260:	learn: 11.3115029	total: 2.26s	remaining: 6.4s
261:	learn: 11.3062178	total: 2.26s	remaining: 6.37s
262:	learn: 11.3020651	total: 2.26s	remaining: 6.34s
263:	learn: 11.2975671	total: 2.35s	remaining: 6.54s
264:	learn: 11.2758344	total: 2.35s	remaining: 6.51s
265:	learn: 11.2531884	total: 2.35s	remaining: 6.48s
266:	learn: 11.2487941	total: 2.35s	remaining: 6.45s
267:	learn: 11.2434412	total: 2.35s	remaining: 6.42s
268:	learn: 11.2391698	total: 2.35s	remaining: 6.39s
269:	learn: 11.2339469	total: 2.35s	remaining: 6.36s
270:	learn: 11.2165842	total: 2.35s	remaining: 6.33s
271:	learn: 11.1974640	total: 2.36s	remaining: 6.31s
272:	learn: 11.1902184	total: 2.36s	remaining: 6.28s
273:	learn: 11.1798802	total: 2.44s	remaining: 6.47s
274:	learn: 11.1734379	total: 2.44s	remaining: 6.44s
275:	learn: 11.1517025	total: 2.44s	remaining: 6.41s
276:	learn: 11.1312482	total: 2.45s	remaining: 6.38s
277:	learn: 11.1279875	total: 2.45s	remaining: 6.36s
278:	learn: 11.1064433	total: 2.45s	remaining: 6.33s
279:	learn: 11.0954641	total: 2.45s	remaining: 6.3s
280:	learn: 11.0917639	total: 2.45s	remaining: 6.27s
281:	learn: 11.0849206	total: 2.45s	remaining: 6.25s
282:	learn: 11.0821247	total: 2.45s	remaining: 6.22s
283:	learn: 11.0788284	total: 2.54s	remaining: 6.4s
284:	learn: 11.0750010	total: 2.54s	remaining: 6.37s
285:	learn: 11.0438689	total: 2.54s	remaining: 6.34s
286:	learn: 11.0236924	total: 2.54s	remaining: 6.32s
287:	learn: 11.0191998	total: 2.54s	remaining: 6.29s
288:	learn: 10.9995557	total: 2.55s	remaining: 6.26s
289:	learn: 10.9777355	total: 2.55s	remaining: 6.24s
290:	learn: 10.9723784	total: 2.55s	remaining: 6.21s
291:	learn: 10.9689943	total: 2.55s	remaining: 6.18s
292:	learn: 10.9654420	total: 2.55s	remaining: 6.15s
293:	learn: 10.9278418	total: 2.55s	remaining: 6.13s
294:	learn: 10.9242823	total: 2.63s	remaining: 6.29s
295:	learn: 10.9212055	total: 2.63s	remaining: 6.27s
296:	learn: 10.9176601	total: 2.64s	remaining: 6.24s
297:	learn: 10.8987824	total: 2.64s	remaining: 6.21s
298:	learn: 10.8807915	total: 2.64s	remaining: 6.19s
299:	learn: 10.8584375	total: 2.64s	remaining: 6.16s
300:	learn: 10.8307177	total: 2.64s	remaining: 6.13s
301:	learn: 10.8279489	total: 2.64s	remaining: 6.11s
302:	learn: 10.8244561	total: 2.64s	remaining: 6.08s
303:	learn: 10.8034339	total: 2.65s	remaining: 6.06s
304:	learn: 10.7989019	total: 2.73s	remaining: 6.22s
305:	learn: 10.7827934	total: 2.73s	remaining: 6.19s
306:	learn: 10.7801779	total: 2.73s	remaining: 6.17s

307:	learn: 10.7591081	total: 2.73s	remaining: 6.14s
308:	learn: 10.7536897	total: 2.73s	remaining: 6.12s
309:	learn: 10.7292813	total: 2.73s	remaining: 6.09s
310:	learn: 10.7120003	total: 2.74s	remaining: 6.06s
311:	learn: 10.7031103	total: 2.74s	remaining: 6.04s
312:	learn: 10.6797859	total: 2.74s	remaining: 6.01s
313:	learn: 10.6732687	total: 2.74s	remaining: 5.99s
314:	learn: 10.6637769	total: 2.83s	remaining: 6.14s
315:	learn: 10.6447919	total: 2.83s	remaining: 6.12s
316:	learn: 10.6322617	total: 2.83s	remaining: 6.09s
317:	learn: 10.6298190	total: 2.83s	remaining: 6.07s
318:	learn: 10.6218948	total: 2.83s	remaining: 6.04s
319:	learn: 10.5925503	total: 2.83s	remaining: 6.02s
320:	learn: 10.5858624	total: 2.83s	remaining: 5.99s
321:	learn: 10.5835953	total: 2.83s	remaining: 5.96s
322:	learn: 10.5734122	total: 2.83s	remaining: 5.94s
323:	learn: 10.5702110	total: 2.92s	remaining: 6.09s
324:	learn: 10.5644020	total: 2.92s	remaining: 6.07s
325:	learn: 10.5614273	total: 2.92s	remaining: 6.05s
326:	learn: 10.5585160	total: 2.92s	remaining: 6.02s
327:	learn: 10.5563068	total: 2.93s	remaining: 6s
328:	learn: 10.5535421	total: 2.93s	remaining: 5.97s
329:	learn: 10.5365251	total: 2.93s	remaining: 5.95s
330:	learn: 10.5331098	total: 2.93s	remaining: 5.92s
331:	learn: 10.5101851	total: 2.93s	remaining: 5.9s
332:	learn: 10.5078603	total: 2.93s	remaining: 5.88s
333:	learn: 10.4740024	total: 2.93s	remaining: 5.85s
334:	learn: 10.4687918	total: 2.94s	remaining: 5.83s
335:	learn: 10.4668215	total: 2.94s	remaining: 5.8s
336:	learn: 10.4384942	total: 3.02s	remaining: 5.93s
337:	learn: 10.4138205	total: 3.02s	remaining: 5.91s
338:	learn: 10.3874592	total: 3.02s	remaining: 5.89s
339:	learn: 10.3595823	total: 3.02s	remaining: 5.86s
340:	learn: 10.3392509	total: 3.02s	remaining: 5.84s
341:	learn: 10.3368515	total: 3.02s	remaining: 5.82s
342:	learn: 10.3211533	total: 3.02s	remaining: 5.79s
343:	learn: 10.3180508	total: 3.02s	remaining: 5.77s
344:	learn: 10.3159581	total: 3.03s	remaining: 5.75s
345:	learn: 10.3001453	total: 3.03s	remaining: 5.72s
346:	learn: 10.2794473	total: 3.11s	remaining: 5.86s
347:	learn: 10.2704365	total: 3.11s	remaining: 5.83s
348:	learn: 10.2520204	total: 3.12s	remaining: 5.81s
349:	learn: 10.2290721	total: 3.12s	remaining: 5.79s
350:	learn: 10.2268511	total: 3.12s	remaining: 5.76s
351:	learn: 10.1968638	total: 3.12s	remaining: 5.74s
352:	learn: 10.1689549	total: 3.12s	remaining: 5.72s
353:	learn: 10.1549979	total: 3.12s	remaining: 5.7s
354:	learn: 10.1530074	total: 3.12s	remaining: 5.67s
355:	learn: 10.1507547	total: 3.12s	remaining: 5.65s
356:	learn: 10.1295213	total: 3.21s	remaining: 5.78s
357:	learn: 10.1110547	total: 3.21s	remaining: 5.75s
358:	learn: 10.0841324	total: 3.21s	remaining: 5.73s
359:	learn: 10.0757508	total: 3.21s	remaining: 5.71s
360:	learn: 10.0616789	total: 3.21s	remaining: 5.69s
361:	learn: 10.0599758	total: 3.21s	remaining: 5.67s
362:	learn: 10.0500526	total: 3.22s	remaining: 5.64s
363:	learn: 10.0365135	total: 3.22s	remaining: 5.62s
364:	learn: 10.0132914	total: 3.22s	remaining: 5.6s
365:	learn: 10.0114369	total: 3.22s	remaining: 5.58s
366:	learn: 9.9997841	total: 3.22s	remaining: 5.56s
367:	learn: 9.9906470	total: 3.3s	remaining: 5.67s

368:	learn: 9.9713671	total: 3.31s	remaining: 5.65s
369:	learn: 9.9622525	total: 3.31s	remaining: 5.63s
370:	learn: 9.9571518	total: 3.31s	remaining: 5.61s
371:	learn: 9.9493288	total: 3.31s	remaining: 5.59s
372:	learn: 9.9375790	total: 3.31s	remaining: 5.57s
373:	learn: 9.9162797	total: 3.31s	remaining: 5.54s
374:	learn: 9.8976157	total: 3.31s	remaining: 5.52s
375:	learn: 9.8836935	total: 3.31s	remaining: 5.5s
376:	learn: 9.8585412	total: 3.4s	remaining: 5.62s
377:	learn: 9.8395963	total: 3.4s	remaining: 5.6s
378:	learn: 9.8368183	total: 3.4s	remaining: 5.58s
379:	learn: 9.8351111	total: 3.4s	remaining: 5.55s
380:	learn: 9.8310097	total: 3.4s	remaining: 5.53s
381:	learn: 9.8293856	total: 3.4s	remaining: 5.51s
382:	learn: 9.8217406	total: 3.41s	remaining: 5.49s
383:	learn: 9.7987759	total: 3.41s	remaining: 5.47s
384:	learn: 9.7860461	total: 3.41s	remaining: 5.45s
385:	learn: 9.7824472	total: 3.41s	remaining: 5.43s
386:	learn: 9.7661917	total: 3.41s	remaining: 5.41s
387:	learn: 9.7481425	total: 3.41s	remaining: 5.38s
388:	learn: 9.7309032	total: 3.5s	remaining: 5.49s
389:	learn: 9.7134829	total: 3.5s	remaining: 5.47s
390:	learn: 9.6944139	total: 3.5s	remaining: 5.45s
391:	learn: 9.6743154	total: 3.5s	remaining: 5.43s
392:	learn: 9.6656995	total: 3.5s	remaining: 5.41s
393:	learn: 9.6404366	total: 3.5s	remaining: 5.39s
394:	learn: 9.6388989	total: 3.5s	remaining: 5.37s
395:	learn: 9.6351779	total: 3.5s	remaining: 5.35s
396:	learn: 9.6200906	total: 3.51s	remaining: 5.33s
397:	learn: 9.6030686	total: 3.51s	remaining: 5.3s
398:	learn: 9.5861787	total: 3.59s	remaining: 5.41s
399:	learn: 9.5655898	total: 3.59s	remaining: 5.39s
400:	learn: 9.5521562	total: 3.59s	remaining: 5.37s
401:	learn: 9.5478382	total: 3.6s	remaining: 5.35s
402:	learn: 9.5348890	total: 3.6s	remaining: 5.33s
403:	learn: 9.5236712	total: 3.6s	remaining: 5.31s
404:	learn: 9.5116892	total: 3.6s	remaining: 5.29s
405:	learn: 9.4998385	total: 3.6s	remaining: 5.27s
406:	learn: 9.4923779	total: 3.6s	remaining: 5.25s
407:	learn: 9.4873056	total: 3.6s	remaining: 5.23s
408:	learn: 9.4774829	total: 3.6s	remaining: 5.21s
409:	learn: 9.4679113	total: 3.69s	remaining: 5.3s
410:	learn: 9.4515621	total: 3.69s	remaining: 5.29s
411:	learn: 9.4484215	total: 3.69s	remaining: 5.26s
412:	learn: 9.4300424	total: 3.69s	remaining: 5.25s
413:	learn: 9.4211464	total: 3.69s	remaining: 5.22s
414:	learn: 9.4196679	total: 3.69s	remaining: 5.21s
415:	learn: 9.4024534	total: 3.69s	remaining: 5.18s
416:	learn: 9.3952579	total: 3.69s	remaining: 5.17s
417:	learn: 9.3823126	total: 3.7s	remaining: 5.15s
418:	learn: 9.3792925	total: 3.7s	remaining: 5.13s
419:	learn: 9.3690340	total: 3.7s	remaining: 5.11s
420:	learn: 9.3601242	total: 3.78s	remaining: 5.2s
421:	learn: 9.3461194	total: 3.78s	remaining: 5.18s
422:	learn: 9.3448526	total: 3.78s	remaining: 5.16s
423:	learn: 9.3367431	total: 3.79s	remaining: 5.14s
424:	learn: 9.3287422	total: 3.79s	remaining: 5.12s
425:	learn: 9.3231058	total: 3.79s	remaining: 5.1s
426:	learn: 9.3143801	total: 3.79s	remaining: 5.08s
427:	learn: 9.3060979	total: 3.79s	remaining: 5.06s
428:	learn: 9.2951074	total: 3.79s	remaining: 5.04s

429:	learn: 9.2812888	total: 3.79s	remaining: 5.03s
430:	learn: 9.2758707	total: 3.79s	remaining: 5.01s
431:	learn: 9.2637643	total: 3.79s	remaining: 4.99s
432:	learn: 9.2585442	total: 3.88s	remaining: 5.08s
433:	learn: 9.2567339	total: 3.88s	remaining: 5.06s
434:	learn: 9.2494474	total: 3.88s	remaining: 5.04s
435:	learn: 9.2397593	total: 3.88s	remaining: 5.02s
436:	learn: 9.2284910	total: 3.88s	remaining: 5s
437:	learn: 9.2270737	total: 3.88s	remaining: 4.98s
438:	learn: 9.2141700	total: 3.88s	remaining: 4.96s
439:	learn: 9.2129271	total: 3.88s	remaining: 4.94s
440:	learn: 9.2052119	total: 3.89s	remaining: 4.93s
441:	learn: 9.2040858	total: 3.97s	remaining: 5.01s
442:	learn: 9.1987384	total: 3.97s	remaining: 5s
443:	learn: 9.1859350	total: 3.97s	remaining: 4.98s
444:	learn: 9.1845214	total: 3.98s	remaining: 4.96s
445:	learn: 9.1704626	total: 3.98s	remaining: 4.94s
446:	learn: 9.1560378	total: 3.98s	remaining: 4.92s
447:	learn: 9.1480897	total: 3.98s	remaining: 4.9s
448:	learn: 9.1381659	total: 3.98s	remaining: 4.88s
449:	learn: 9.1303207	total: 3.98s	remaining: 4.87s
450:	learn: 9.1230553	total: 3.98s	remaining: 4.85s
451:	learn: 9.1158636	total: 3.98s	remaining: 4.83s
452:	learn: 9.1142536	total: 3.98s	remaining: 4.81s
453:	learn: 9.0985139	total: 4.07s	remaining: 4.89s
454:	learn: 9.0875482	total: 4.07s	remaining: 4.88s
455:	learn: 9.0815365	total: 4.07s	remaining: 4.86s
456:	learn: 9.0698928	total: 4.07s	remaining: 4.84s
457:	learn: 9.0669460	total: 4.07s	remaining: 4.82s
458:	learn: 9.0654942	total: 4.07s	remaining: 4.8s
459:	learn: 9.0564830	total: 4.08s	remaining: 4.78s
460:	learn: 9.0492374	total: 4.08s	remaining: 4.78s
461:	learn: 9.0418700	total: 4.08s	remaining: 4.76s
462:	learn: 9.0343183	total: 4.09s	remaining: 4.74s
463:	learn: 9.0310676	total: 4.17s	remaining: 4.81s
464:	learn: 9.0183529	total: 4.17s	remaining: 4.79s
465:	learn: 9.0081126	total: 4.17s	remaining: 4.78s
466:	learn: 9.0013397	total: 4.17s	remaining: 4.76s
467:	learn: 8.9952379	total: 4.17s	remaining: 4.74s
468:	learn: 8.9915938	total: 4.17s	remaining: 4.72s
469:	learn: 8.9858372	total: 4.17s	remaining: 4.7s
470:	learn: 8.9785989	total: 4.17s	remaining: 4.69s
471:	learn: 8.9737081	total: 4.17s	remaining: 4.67s
472:	learn: 8.9650225	total: 4.18s	remaining: 4.65s
473:	learn: 8.9582700	total: 4.26s	remaining: 4.73s
474:	learn: 8.9530747	total: 4.26s	remaining: 4.71s
475:	learn: 8.9520414	total: 4.26s	remaining: 4.69s
476:	learn: 8.9438989	total: 4.26s	remaining: 4.67s
477:	learn: 8.9426465	total: 4.26s	remaining: 4.66s
478:	learn: 8.9308443	total: 4.27s	remaining: 4.64s
479:	learn: 8.9253096	total: 4.27s	remaining: 4.62s
480:	learn: 8.9148822	total: 4.27s	remaining: 4.61s
481:	learn: 8.8994584	total: 4.27s	remaining: 4.59s
482:	learn: 8.8888085	total: 4.27s	remaining: 4.57s
483:	learn: 8.8877412	total: 4.27s	remaining: 4.55s
484:	learn: 8.8730967	total: 4.36s	remaining: 4.63s
485:	learn: 8.8653913	total: 4.36s	remaining: 4.61s
486:	learn: 8.8505213	total: 4.36s	remaining: 4.59s
487:	learn: 8.8413229	total: 4.36s	remaining: 4.58s
488:	learn: 8.8302395	total: 4.36s	remaining: 4.56s
489:	learn: 8.8137389	total: 4.36s	remaining: 4.54s

490:	learn: 8.8117313	total: 4.36s	remaining: 4.52s
491:	learn: 8.8045335	total: 4.37s	remaining: 4.51s
492:	learn: 8.7994561	total: 4.37s	remaining: 4.49s
493:	learn: 8.7954929	total: 4.38s	remaining: 4.49s
494:	learn: 8.7844595	total: 4.45s	remaining: 4.54s
495:	learn: 8.7761355	total: 4.45s	remaining: 4.53s
496:	learn: 8.7702790	total: 4.45s	remaining: 4.51s
497:	learn: 8.7613649	total: 4.46s	remaining: 4.49s
498:	learn: 8.7534491	total: 4.46s	remaining: 4.47s
499:	learn: 8.7462171	total: 4.46s	remaining: 4.46s
500:	learn: 8.7389525	total: 4.46s	remaining: 4.44s
501:	learn: 8.7258335	total: 4.46s	remaining: 4.42s
502:	learn: 8.7192151	total: 4.46s	remaining: 4.41s
503:	learn: 8.7109894	total: 4.46s	remaining: 4.39s
504:	learn: 8.7052052	total: 4.46s	remaining: 4.38s
505:	learn: 8.7006526	total: 4.46s	remaining: 4.36s
506:	learn: 8.6920640	total: 4.55s	remaining: 4.42s
507:	learn: 8.6783902	total: 4.55s	remaining: 4.41s
508:	learn: 8.6740692	total: 4.55s	remaining: 4.39s
509:	learn: 8.6659708	total: 4.55s	remaining: 4.38s
510:	learn: 8.6610239	total: 4.55s	remaining: 4.36s
511:	learn: 8.6546307	total: 4.56s	remaining: 4.34s
512:	learn: 8.6452061	total: 4.56s	remaining: 4.33s
513:	learn: 8.6358158	total: 4.56s	remaining: 4.31s
514:	learn: 8.6285670	total: 4.56s	remaining: 4.29s
515:	learn: 8.6214408	total: 4.56s	remaining: 4.28s
516:	learn: 8.6149940	total: 4.64s	remaining: 4.34s
517:	learn: 8.6079736	total: 4.64s	remaining: 4.32s
518:	learn: 8.6043653	total: 4.65s	remaining: 4.31s
519:	learn: 8.5987743	total: 4.65s	remaining: 4.29s
520:	learn: 8.5888524	total: 4.65s	remaining: 4.27s
521:	learn: 8.5824518	total: 4.65s	remaining: 4.26s
522:	learn: 8.5710400	total: 4.65s	remaining: 4.24s
523:	learn: 8.5546656	total: 4.65s	remaining: 4.22s
524:	learn: 8.5457768	total: 4.65s	remaining: 4.21s
525:	learn: 8.5378687	total: 4.65s	remaining: 4.19s
526:	learn: 8.5225556	total: 4.66s	remaining: 4.18s
527:	learn: 8.5183503	total: 4.74s	remaining: 4.24s
528:	learn: 8.5134824	total: 4.74s	remaining: 4.22s
529:	learn: 8.5061832	total: 4.74s	remaining: 4.21s
530:	learn: 8.4998941	total: 4.74s	remaining: 4.19s
531:	learn: 8.4949409	total: 4.75s	remaining: 4.17s
532:	learn: 8.4905973	total: 4.75s	remaining: 4.16s
533:	learn: 8.4838890	total: 4.75s	remaining: 4.14s
534:	learn: 8.4741292	total: 4.75s	remaining: 4.13s
535:	learn: 8.4664050	total: 4.75s	remaining: 4.11s
536:	learn: 8.4606702	total: 4.75s	remaining: 4.1s
537:	learn: 8.4561911	total: 4.75s	remaining: 4.08s
538:	learn: 8.4551678	total: 4.83s	remaining: 4.13s
539:	learn: 8.4489176	total: 4.84s	remaining: 4.12s
540:	learn: 8.4453000	total: 4.84s	remaining: 4.1s
541:	learn: 8.4434991	total: 4.84s	remaining: 4.09s
542:	learn: 8.4380074	total: 4.84s	remaining: 4.07s
543:	learn: 8.4297549	total: 4.84s	remaining: 4.06s
544:	learn: 8.4264099	total: 4.84s	remaining: 4.04s
545:	learn: 8.4197936	total: 4.84s	remaining: 4.03s
546:	learn: 8.4071506	total: 4.84s	remaining: 4.01s
547:	learn: 8.4059620	total: 4.85s	remaining: 4s
548:	learn: 8.3991963	total: 4.85s	remaining: 3.99s
549:	learn: 8.3943664	total: 4.93s	remaining: 4.03s
550:	learn: 8.3870694	total: 4.93s	remaining: 4.02s

551:	learn: 8.3816319	total: 4.93s	remaining: 4s
552:	learn: 8.3728428	total: 4.93s	remaining: 3.99s
553:	learn: 8.3660317	total: 4.93s	remaining: 3.97s
554:	learn: 8.3602081	total: 4.94s	remaining: 3.96s
555:	learn: 8.3582512	total: 4.94s	remaining: 3.94s
556:	learn: 8.3485622	total: 4.94s	remaining: 3.93s
557:	learn: 8.3426149	total: 4.94s	remaining: 3.91s
558:	learn: 8.3340893	total: 4.94s	remaining: 3.9s
559:	learn: 8.3302032	total: 4.94s	remaining: 3.88s
560:	learn: 8.3255855	total: 4.94s	remaining: 3.87s
561:	learn: 8.3244742	total: 5.02s	remaining: 3.92s
562:	learn: 8.3209370	total: 5.03s	remaining: 3.9s
563:	learn: 8.3157304	total: 5.03s	remaining: 3.88s
564:	learn: 8.3147600	total: 5.03s	remaining: 3.87s
565:	learn: 8.3105401	total: 5.03s	remaining: 3.86s
566:	learn: 8.3028348	total: 5.03s	remaining: 3.84s
567:	learn: 8.2903937	total: 5.03s	remaining: 3.83s
568:	learn: 8.2885241	total: 5.03s	remaining: 3.81s
569:	learn: 8.2831692	total: 5.03s	remaining: 3.8s
570:	learn: 8.2714245	total: 5.03s	remaining: 3.78s
571:	learn: 8.2683552	total: 5.12s	remaining: 3.83s
572:	learn: 8.2639041	total: 5.12s	remaining: 3.82s
573:	learn: 8.2580308	total: 5.12s	remaining: 3.8s
574:	learn: 8.2550109	total: 5.12s	remaining: 3.79s
575:	learn: 8.2445478	total: 5.13s	remaining: 3.77s
576:	learn: 8.2368197	total: 5.13s	remaining: 3.76s
577:	learn: 8.2340410	total: 5.13s	remaining: 3.75s
578:	learn: 8.2301542	total: 5.13s	remaining: 3.73s
579:	learn: 8.2225713	total: 5.13s	remaining: 3.72s
580:	learn: 8.2215310	total: 5.13s	remaining: 3.7s
581:	learn: 8.2205104	total: 5.13s	remaining: 3.69s
582:	learn: 8.2162897	total: 5.22s	remaining: 3.73s
583:	learn: 8.2120291	total: 5.22s	remaining: 3.72s
584:	learn: 8.2082500	total: 5.22s	remaining: 3.7s
585:	learn: 8.1978911	total: 5.22s	remaining: 3.69s
586:	learn: 8.1931365	total: 5.22s	remaining: 3.67s
587:	learn: 8.1884787	total: 5.22s	remaining: 3.66s
588:	learn: 8.1849929	total: 5.22s	remaining: 3.65s
589:	learn: 8.1824686	total: 5.23s	remaining: 3.63s
590:	learn: 8.1712722	total: 5.23s	remaining: 3.62s
591:	learn: 8.1702738	total: 5.31s	remaining: 3.66s
592:	learn: 8.1683805	total: 5.31s	remaining: 3.65s
593:	learn: 8.1627002	total: 5.31s	remaining: 3.63s
594:	learn: 8.1552823	total: 5.32s	remaining: 3.62s
595:	learn: 8.1529844	total: 5.32s	remaining: 3.6s
596:	learn: 8.1476818	total: 5.32s	remaining: 3.59s
597:	learn: 8.1464980	total: 5.32s	remaining: 3.58s
598:	learn: 8.1425751	total: 5.32s	remaining: 3.56s
599:	learn: 8.1381234	total: 5.32s	remaining: 3.55s
600:	learn: 8.1253542	total: 5.32s	remaining: 3.53s
601:	learn: 8.1209087	total: 5.32s	remaining: 3.52s
602:	learn: 8.1079557	total: 5.4s	remaining: 3.56s
603:	learn: 8.1068591	total: 5.4s	remaining: 3.54s
604:	learn: 8.0998826	total: 5.4s	remaining: 3.53s
605:	learn: 8.0941777	total: 5.41s	remaining: 3.51s
606:	learn: 8.0867393	total: 5.41s	remaining: 3.5s
607:	learn: 8.0779336	total: 5.41s	remaining: 3.49s
608:	learn: 8.0677038	total: 5.41s	remaining: 3.47s
609:	learn: 8.0634574	total: 5.41s	remaining: 3.46s
610:	learn: 8.0516973	total: 5.41s	remaining: 3.44s
611:	learn: 8.0471765	total: 5.41s	remaining: 3.43s

612:	learn: 8.0420272	total: 5.41s	remaining: 3.42s
613:	learn: 8.0303143	total: 5.5s	remaining: 3.46s
614:	learn: 8.0196272	total: 5.5s	remaining: 3.44s
615:	learn: 8.0144531	total: 5.5s	remaining: 3.43s
616:	learn: 8.0117437	total: 5.5s	remaining: 3.41s
617:	learn: 8.0038546	total: 5.5s	remaining: 3.4s
618:	learn: 7.9934307	total: 5.5s	remaining: 3.39s
619:	learn: 7.9918964	total: 5.5s	remaining: 3.37s
620:	learn: 7.9845818	total: 5.5s	remaining: 3.36s
621:	learn: 7.9835082	total: 5.51s	remaining: 3.35s
622:	learn: 7.9754163	total: 5.59s	remaining: 3.38s
623:	learn: 7.9715326	total: 5.59s	remaining: 3.37s
624:	learn: 7.9606127	total: 5.59s	remaining: 3.36s
625:	learn: 7.9594219	total: 5.6s	remaining: 3.34s
626:	learn: 7.9585586	total: 5.6s	remaining: 3.33s
627:	learn: 7.9563141	total: 5.6s	remaining: 3.32s
628:	learn: 7.9547241	total: 5.6s	remaining: 3.3s
629:	learn: 7.9497842	total: 5.6s	remaining: 3.29s
630:	learn: 7.9440618	total: 5.6s	remaining: 3.28s
631:	learn: 7.9365024	total: 5.6s	remaining: 3.26s
632:	learn: 7.9358191	total: 5.61s	remaining: 3.25s
633:	learn: 7.9306325	total: 5.61s	remaining: 3.24s
634:	learn: 7.9275203	total: 5.69s	remaining: 3.27s
635:	learn: 7.9208939	total: 5.69s	remaining: 3.26s
636:	learn: 7.9118903	total: 5.69s	remaining: 3.24s
637:	learn: 7.9013393	total: 5.69s	remaining: 3.23s
638:	learn: 7.9002134	total: 5.69s	remaining: 3.22s
639:	learn: 7.8973702	total: 5.69s	remaining: 3.2s
640:	learn: 7.8914137	total: 5.7s	remaining: 3.19s
641:	learn: 7.8870432	total: 5.7s	remaining: 3.18s
642:	learn: 7.8814550	total: 5.7s	remaining: 3.16s
643:	learn: 7.8692007	total: 5.7s	remaining: 3.15s
644:	learn: 7.8643037	total: 5.78s	remaining: 3.18s
645:	learn: 7.8598533	total: 5.79s	remaining: 3.17s
646:	learn: 7.8503388	total: 5.79s	remaining: 3.16s
647:	learn: 7.8449460	total: 5.79s	remaining: 3.14s
648:	learn: 7.8430351	total: 5.79s	remaining: 3.13s
649:	learn: 7.8364574	total: 5.79s	remaining: 3.12s
650:	learn: 7.8311168	total: 5.79s	remaining: 3.1s
651:	learn: 7.8218696	total: 5.79s	remaining: 3.09s
652:	learn: 7.8179611	total: 5.79s	remaining: 3.08s
653:	learn: 7.8141703	total: 5.79s	remaining: 3.07s
654:	learn: 7.8007067	total: 5.8s	remaining: 3.05s
655:	learn: 7.7994587	total: 5.8s	remaining: 3.04s
656:	learn: 7.7901289	total: 5.88s	remaining: 3.07s
657:	learn: 7.7851387	total: 5.88s	remaining: 3.06s
658:	learn: 7.7811873	total: 5.88s	remaining: 3.04s
659:	learn: 7.7781930	total: 5.88s	remaining: 3.03s
660:	learn: 7.7697126	total: 5.88s	remaining: 3.02s
661:	learn: 7.7624104	total: 5.88s	remaining: 3s
662:	learn: 7.7570435	total: 5.89s	remaining: 2.99s
663:	learn: 7.7517501	total: 5.89s	remaining: 2.98s
664:	learn: 7.7465083	total: 5.89s	remaining: 2.97s
665:	learn: 7.7428249	total: 5.89s	remaining: 2.95s
666:	learn: 7.7324858	total: 5.89s	remaining: 2.94s
667:	learn: 7.7267854	total: 5.9s	remaining: 2.93s
668:	learn: 7.7175175	total: 5.97s	remaining: 2.96s
669:	learn: 7.7126021	total: 5.98s	remaining: 2.94s
670:	learn: 7.7056671	total: 5.98s	remaining: 2.93s
671:	learn: 7.6974824	total: 5.98s	remaining: 2.92s
672:	learn: 7.6960042	total: 5.98s	remaining: 2.91s

673:	learn: 7.6943170	total: 5.98s	remaining: 2.89s
674:	learn: 7.6931424	total: 5.98s	remaining: 2.88s
675:	learn: 7.6893086	total: 5.98s	remaining: 2.87s
676:	learn: 7.6826576	total: 5.99s	remaining: 2.85s
677:	learn: 7.6746701	total: 5.99s	remaining: 2.84s
678:	learn: 7.6718301	total: 6.07s	remaining: 2.87s
679:	learn: 7.6659687	total: 6.07s	remaining: 2.86s
680:	learn: 7.6623169	total: 6.07s	remaining: 2.84s
681:	learn: 7.6565307	total: 6.07s	remaining: 2.83s
682:	learn: 7.6532457	total: 6.08s	remaining: 2.82s
683:	learn: 7.6474239	total: 6.08s	remaining: 2.81s
684:	learn: 7.6401188	total: 6.08s	remaining: 2.79s
685:	learn: 7.6353712	total: 6.08s	remaining: 2.78s
686:	learn: 7.6260567	total: 6.08s	remaining: 2.77s
687:	learn: 7.6183583	total: 6.08s	remaining: 2.76s
688:	learn: 7.6150864	total: 6.08s	remaining: 2.75s
689:	learn: 7.6116247	total: 6.17s	remaining: 2.77s
690:	learn: 7.6009449	total: 6.17s	remaining: 2.76s
691:	learn: 7.5933800	total: 6.17s	remaining: 2.75s
692:	learn: 7.5849678	total: 6.17s	remaining: 2.73s
693:	learn: 7.5811642	total: 6.17s	remaining: 2.72s
694:	learn: 7.5707534	total: 6.17s	remaining: 2.71s
695:	learn: 7.5653377	total: 6.17s	remaining: 2.7s
696:	learn: 7.5600221	total: 6.18s	remaining: 2.69s
697:	learn: 7.5544969	total: 6.18s	remaining: 2.67s
698:	learn: 7.5510220	total: 6.26s	remaining: 2.7s
699:	learn: 7.5503006	total: 6.26s	remaining: 2.68s
700:	learn: 7.5436628	total: 6.26s	remaining: 2.67s
701:	learn: 7.5358373	total: 6.27s	remaining: 2.66s
702:	learn: 7.5327005	total: 6.27s	remaining: 2.65s
703:	learn: 7.5272912	total: 6.27s	remaining: 2.63s
704:	learn: 7.5205821	total: 6.27s	remaining: 2.62s
705:	learn: 7.5191613	total: 6.27s	remaining: 2.61s
706:	learn: 7.5112350	total: 6.27s	remaining: 2.6s
707:	learn: 7.5085754	total: 6.27s	remaining: 2.59s
708:	learn: 7.5077460	total: 6.27s	remaining: 2.58s
709:	learn: 7.4988040	total: 6.28s	remaining: 2.56s
710:	learn: 7.4918030	total: 6.36s	remaining: 2.58s
711:	learn: 7.4911968	total: 6.36s	remaining: 2.57s
712:	learn: 7.4854483	total: 6.36s	remaining: 2.56s
713:	learn: 7.4812579	total: 6.36s	remaining: 2.55s
714:	learn: 7.4786853	total: 6.36s	remaining: 2.54s
715:	learn: 7.4751018	total: 6.37s	remaining: 2.52s
716:	learn: 7.4661573	total: 6.37s	remaining: 2.51s
717:	learn: 7.4608098	total: 6.37s	remaining: 2.5s
718:	learn: 7.4538166	total: 6.37s	remaining: 2.49s
719:	learn: 7.4489266	total: 6.37s	remaining: 2.48s
720:	learn: 7.4394096	total: 6.37s	remaining: 2.46s
721:	learn: 7.4289648	total: 6.37s	remaining: 2.45s
722:	learn: 7.4233958	total: 6.45s	remaining: 2.47s
723:	learn: 7.4205062	total: 6.45s	remaining: 2.46s
724:	learn: 7.4153669	total: 6.46s	remaining: 2.45s
725:	learn: 7.4087706	total: 6.46s	remaining: 2.44s
726:	learn: 7.4041821	total: 6.46s	remaining: 2.42s
727:	learn: 7.3991087	total: 6.46s	remaining: 2.41s
728:	learn: 7.3854522	total: 6.46s	remaining: 2.4s
729:	learn: 7.3745097	total: 6.46s	remaining: 2.39s
730:	learn: 7.3683805	total: 6.46s	remaining: 2.38s
731:	learn: 7.3637383	total: 6.46s	remaining: 2.37s
732:	learn: 7.3594478	total: 6.46s	remaining: 2.35s
733:	learn: 7.3568428	total: 6.55s	remaining: 2.37s

734:	learn: 7.3485623	total: 6.55s	remaining: 2.36s
735:	learn: 7.3375698	total: 6.55s	remaining: 2.35s
736:	learn: 7.3323341	total: 6.55s	remaining: 2.34s
737:	learn: 7.3281332	total: 6.55s	remaining: 2.33s
738:	learn: 7.3271024	total: 6.55s	remaining: 2.31s
739:	learn: 7.3220072	total: 6.56s	remaining: 2.3s
740:	learn: 7.3193334	total: 6.56s	remaining: 2.29s
741:	learn: 7.3168288	total: 6.56s	remaining: 2.28s
742:	learn: 7.3091156	total: 6.56s	remaining: 2.27s
743:	learn: 7.3031634	total: 6.56s	remaining: 2.26s
744:	learn: 7.2998681	total: 6.56s	remaining: 2.25s
745:	learn: 7.2991245	total: 6.64s	remaining: 2.26s
746:	learn: 7.2943381	total: 6.65s	remaining: 2.25s
747:	learn: 7.2926026	total: 6.65s	remaining: 2.24s
748:	learn: 7.2861693	total: 6.65s	remaining: 2.23s
749:	learn: 7.2761562	total: 6.65s	remaining: 2.22s
750:	learn: 7.2686197	total: 6.65s	remaining: 2.21s
751:	learn: 7.2640834	total: 6.65s	remaining: 2.19s
752:	learn: 7.2603291	total: 6.65s	remaining: 2.18s
753:	learn: 7.2550754	total: 6.65s	remaining: 2.17s
754:	learn: 7.2496170	total: 6.66s	remaining: 2.16s
755:	learn: 7.2479141	total: 6.66s	remaining: 2.15s
756:	learn: 7.2433819	total: 6.74s	remaining: 2.16s
757:	learn: 7.2395742	total: 6.74s	remaining: 2.15s
758:	learn: 7.2354057	total: 6.74s	remaining: 2.14s
759:	learn: 7.2313646	total: 6.74s	remaining: 2.13s
760:	learn: 7.2285380	total: 6.75s	remaining: 2.12s
761:	learn: 7.2264561	total: 6.75s	remaining: 2.11s
762:	learn: 7.2251448	total: 6.75s	remaining: 2.1s
763:	learn: 7.2199021	total: 6.75s	remaining: 2.08s
764:	learn: 7.2181519	total: 6.75s	remaining: 2.07s
765:	learn: 7.2126996	total: 6.75s	remaining: 2.06s
766:	learn: 7.2077067	total: 6.84s	remaining: 2.08s
767:	learn: 7.1993448	total: 6.84s	remaining: 2.06s
768:	learn: 7.1950639	total: 6.84s	remaining: 2.05s
769:	learn: 7.1939170	total: 6.84s	remaining: 2.04s
770:	learn: 7.1919523	total: 6.84s	remaining: 2.03s
771:	learn: 7.1870753	total: 6.84s	remaining: 2.02s
772:	learn: 7.1844994	total: 6.84s	remaining: 2.01s
773:	learn: 7.1768162	total: 6.84s	remaining: 2s
774:	learn: 7.1697630	total: 6.84s	remaining: 1.99s
775:	learn: 7.1649148	total: 6.85s	remaining: 1.98s
776:	learn: 7.1600798	total: 6.85s	remaining: 1.97s
777:	learn: 7.1540433	total: 6.93s	remaining: 1.98s
778:	learn: 7.1478723	total: 6.93s	remaining: 1.97s
779:	learn: 7.1437642	total: 6.93s	remaining: 1.96s
780:	learn: 7.1385636	total: 6.93s	remaining: 1.94s
781:	learn: 7.1340119	total: 6.94s	remaining: 1.93s
782:	learn: 7.1302523	total: 6.94s	remaining: 1.92s
783:	learn: 7.1265194	total: 6.94s	remaining: 1.91s
784:	learn: 7.1155892	total: 6.94s	remaining: 1.9s
785:	learn: 7.1088515	total: 6.94s	remaining: 1.89s
786:	learn: 7.1073838	total: 6.95s	remaining: 1.88s
787:	learn: 7.1037179	total: 7.03s	remaining: 1.89s
788:	learn: 7.0942767	total: 7.03s	remaining: 1.88s
789:	learn: 7.0892505	total: 7.03s	remaining: 1.87s
790:	learn: 7.0849214	total: 7.03s	remaining: 1.86s
791:	learn: 7.0842294	total: 7.03s	remaining: 1.85s
792:	learn: 7.0837169	total: 7.04s	remaining: 1.84s
793:	learn: 7.0783904	total: 7.04s	remaining: 1.82s
794:	learn: 7.0729569	total: 7.04s	remaining: 1.81s

795:	learn: 7.0723800	total: 7.04s	remaining: 1.8s
796:	learn: 7.0669355	total: 7.04s	remaining: 1.79s
797:	learn: 7.0583973	total: 7.12s	remaining: 1.8s
798:	learn: 7.0536018	total: 7.13s	remaining: 1.79s
799:	learn: 7.0517244	total: 7.13s	remaining: 1.78s
800:	learn: 7.0446802	total: 7.13s	remaining: 1.77s
801:	learn: 7.0409770	total: 7.13s	remaining: 1.76s
802:	learn: 7.0367840	total: 7.13s	remaining: 1.75s
803:	learn: 7.0292068	total: 7.13s	remaining: 1.74s
804:	learn: 7.0262885	total: 7.13s	remaining: 1.73s
805:	learn: 7.0191794	total: 7.13s	remaining: 1.72s
806:	learn: 7.0129469	total: 7.13s	remaining: 1.71s
807:	learn: 7.0083162	total: 7.22s	remaining: 1.72s
808:	learn: 7.0068080	total: 7.22s	remaining: 1.7s
809:	learn: 7.0022630	total: 7.22s	remaining: 1.69s
810:	learn: 6.9959086	total: 7.22s	remaining: 1.68s
811:	learn: 6.9893822	total: 7.22s	remaining: 1.67s
812:	learn: 6.9765072	total: 7.23s	remaining: 1.66s
813:	learn: 6.9725890	total: 7.23s	remaining: 1.65s
814:	learn: 6.9672214	total: 7.23s	remaining: 1.64s
815:	learn: 6.9620431	total: 7.23s	remaining: 1.63s
816:	learn: 6.9601266	total: 7.23s	remaining: 1.62s
817:	learn: 6.9555498	total: 7.23s	remaining: 1.61s
818:	learn: 6.9508092	total: 7.23s	remaining: 1.6s
819:	learn: 6.9472871	total: 7.32s	remaining: 1.6s
820:	learn: 6.9402943	total: 7.32s	remaining: 1.59s
821:	learn: 6.9357624	total: 7.32s	remaining: 1.58s
822:	learn: 6.9328013	total: 7.32s	remaining: 1.57s
823:	learn: 6.9270750	total: 7.32s	remaining: 1.56s
824:	learn: 6.9220651	total: 7.32s	remaining: 1.55s
825:	learn: 6.9152571	total: 7.32s	remaining: 1.54s
826:	learn: 6.9141082	total: 7.32s	remaining: 1.53s
827:	learn: 6.9115098	total: 7.32s	remaining: 1.52s
828:	learn: 6.9065010	total: 7.33s	remaining: 1.51s
829:	learn: 6.9054456	total: 7.33s	remaining: 1.5s
830:	learn: 6.9028275	total: 7.41s	remaining: 1.51s
831:	learn: 6.8986656	total: 7.41s	remaining: 1.5s
832:	learn: 6.8932277	total: 7.41s	remaining: 1.49s
833:	learn: 6.8900896	total: 7.42s	remaining: 1.48s
834:	learn: 6.8859269	total: 7.42s	remaining: 1.47s
835:	learn: 6.8807046	total: 7.42s	remaining: 1.46s
836:	learn: 6.8740646	total: 7.42s	remaining: 1.44s
837:	learn: 6.8689870	total: 7.42s	remaining: 1.43s
838:	learn: 6.8618799	total: 7.42s	remaining: 1.42s
839:	learn: 6.8608389	total: 7.42s	remaining: 1.41s
840:	learn: 6.8567538	total: 7.42s	remaining: 1.4s
841:	learn: 6.8535074	total: 7.51s	remaining: 1.41s
842:	learn: 6.8469799	total: 7.51s	remaining: 1.4s
843:	learn: 6.8434689	total: 7.51s	remaining: 1.39s
844:	learn: 6.8369386	total: 7.51s	remaining: 1.38s
845:	learn: 6.8318436	total: 7.51s	remaining: 1.37s
846:	learn: 6.8267373	total: 7.51s	remaining: 1.36s
847:	learn: 6.8245592	total: 7.51s	remaining: 1.35s
848:	learn: 6.8129545	total: 7.51s	remaining: 1.34s
849:	learn: 6.8090208	total: 7.52s	remaining: 1.33s
850:	learn: 6.8064509	total: 7.6s	remaining: 1.33s
851:	learn: 6.8026160	total: 7.6s	remaining: 1.32s
852:	learn: 6.7990034	total: 7.61s	remaining: 1.31s
853:	learn: 6.7970414	total: 7.61s	remaining: 1.3s
854:	learn: 6.7893517	total: 7.61s	remaining: 1.29s
855:	learn: 6.7851185	total: 7.61s	remaining: 1.28s

856:	learn: 6.7787234	total: 7.61s	remaining: 1.27s
857:	learn: 6.7687455	total: 7.61s	remaining: 1.26s
858:	learn: 6.7616889	total: 7.62s	remaining: 1.25s
859:	learn: 6.7591606	total: 7.62s	remaining: 1.24s
860:	learn: 6.7534389	total: 7.62s	remaining: 1.23s
861:	learn: 6.7485053	total: 7.7s	remaining: 1.23s
862:	learn: 6.7454404	total: 7.7s	remaining: 1.22s
863:	learn: 6.7428532	total: 7.7s	remaining: 1.21s
864:	learn: 6.7350356	total: 7.7s	remaining: 1.2s
865:	learn: 6.7308306	total: 7.7s	remaining: 1.19s
866:	learn: 6.7248992	total: 7.71s	remaining: 1.18s
867:	learn: 6.7218817	total: 7.71s	remaining: 1.17s
868:	learn: 6.7195501	total: 7.71s	remaining: 1.16s
869:	learn: 6.7128065	total: 7.71s	remaining: 1.15s
870:	learn: 6.7093543	total: 7.71s	remaining: 1.14s
871:	learn: 6.7083601	total: 7.71s	remaining: 1.13s
872:	learn: 6.7045546	total: 7.79s	remaining: 1.13s
873:	learn: 6.7018307	total: 7.8s	remaining: 1.12s
874:	learn: 6.6990654	total: 7.8s	remaining: 1.11s
875:	learn: 6.6969005	total: 7.8s	remaining: 1.1s
876:	learn: 6.6912778	total: 7.8s	remaining: 1.09s
877:	learn: 6.6902122	total: 7.8s	remaining: 1.08s
878:	learn: 6.6843975	total: 7.8s	remaining: 1.07s
879:	learn: 6.6815337	total: 7.8s	remaining: 1.06s
880:	learn: 6.6797645	total: 7.8s	remaining: 1.05s
881:	learn: 6.6736422	total: 7.8s	remaining: 1.04s
882:	learn: 6.6695012	total: 7.89s	remaining: 1.04s
883:	learn: 6.6627096	total: 7.89s	remaining: 1.03s
884:	learn: 6.6566170	total: 7.89s	remaining: 1.02s
885:	learn: 6.6536004	total: 7.89s	remaining: 1.01s
886:	learn: 6.6493266	total: 7.89s	remaining: 1s
887:	learn: 6.6467964	total: 7.89s	remaining: 996ms
888:	learn: 6.6441718	total: 7.9s	remaining: 986ms
889:	learn: 6.6408515	total: 7.9s	remaining: 976ms
890:	learn: 6.6377243	total: 7.9s	remaining: 966ms
891:	learn: 6.6351332	total: 7.9s	remaining: 957ms
892:	learn: 6.6332601	total: 7.9s	remaining: 947ms
893:	learn: 6.6292798	total: 7.99s	remaining: 947ms
894:	learn: 6.6272021	total: 7.99s	remaining: 937ms
895:	learn: 6.6215788	total: 7.99s	remaining: 927ms
896:	learn: 6.6186776	total: 7.99s	remaining: 917ms
897:	learn: 6.6105515	total: 7.99s	remaining: 908ms
898:	learn: 6.6073561	total: 7.99s	remaining: 898ms
899:	learn: 6.6021921	total: 7.99s	remaining: 888ms
900:	learn: 6.5998009	total: 8s	remaining: 879ms
901:	learn: 6.5965651	total: 8s	remaining: 869ms
902:	learn: 6.5881450	total: 8s	remaining: 859ms
903:	learn: 6.5835615	total: 8s	remaining: 850ms
904:	learn: 6.5801808	total: 8.08s	remaining: 848ms
905:	learn: 6.5769641	total: 8.08s	remaining: 839ms
906:	learn: 6.5738661	total: 8.09s	remaining: 829ms
907:	learn: 6.5694790	total: 8.09s	remaining: 819ms
908:	learn: 6.5644391	total: 8.09s	remaining: 810ms
909:	learn: 6.5629843	total: 8.09s	remaining: 800ms
910:	learn: 6.5558268	total: 8.09s	remaining: 790ms
911:	learn: 6.5464246	total: 8.09s	remaining: 781ms
912:	learn: 6.5428432	total: 8.09s	remaining: 771ms
913:	learn: 6.5361059	total: 8.09s	remaining: 761ms
914:	learn: 6.5308409	total: 8.09s	remaining: 752ms
915:	learn: 6.5217371	total: 8.18s	remaining: 750ms
916:	learn: 6.5158305	total: 8.18s	remaining: 740ms

917:	learn: 6.5122841	total: 8.18s	remaining: 731ms
918:	learn: 6.5056190	total: 8.18s	remaining: 721ms
919:	learn: 6.5010473	total: 8.18s	remaining: 711ms
920:	learn: 6.4959430	total: 8.18s	remaining: 702ms
921:	learn: 6.4901109	total: 8.18s	remaining: 692ms
922:	learn: 6.4842825	total: 8.19s	remaining: 683ms
923:	learn: 6.4728057	total: 8.19s	remaining: 674ms
924:	learn: 6.4674650	total: 8.27s	remaining: 671ms
925:	learn: 6.4607307	total: 8.28s	remaining: 661ms
926:	learn: 6.4575115	total: 8.28s	remaining: 652ms
927:	learn: 6.4567765	total: 8.28s	remaining: 642ms
928:	learn: 6.4532784	total: 8.28s	remaining: 633ms
929:	learn: 6.4490830	total: 8.28s	remaining: 623ms
930:	learn: 6.4459305	total: 8.28s	remaining: 614ms
931:	learn: 6.4435230	total: 8.28s	remaining: 604ms
932:	learn: 6.4393179	total: 8.28s	remaining: 595ms
933:	learn: 6.4381708	total: 8.28s	remaining: 585ms
934:	learn: 6.4348138	total: 8.37s	remaining: 582ms
935:	learn: 6.4329224	total: 8.37s	remaining: 572ms
936:	learn: 6.4234602	total: 8.37s	remaining: 563ms
937:	learn: 6.4210742	total: 8.37s	remaining: 553ms
938:	learn: 6.4176645	total: 8.37s	remaining: 544ms
939:	learn: 6.4126035	total: 8.38s	remaining: 535ms
940:	learn: 6.4089954	total: 8.38s	remaining: 525ms
941:	learn: 6.4019703	total: 8.38s	remaining: 516ms
942:	learn: 6.3929533	total: 8.38s	remaining: 506ms
943:	learn: 6.3924130	total: 8.46s	remaining: 502ms
944:	learn: 6.3899537	total: 8.47s	remaining: 493ms
945:	learn: 6.3869590	total: 8.47s	remaining: 483ms
946:	learn: 6.3839552	total: 8.47s	remaining: 474ms
947:	learn: 6.3796302	total: 8.47s	remaining: 465ms
948:	learn: 6.3739481	total: 8.47s	remaining: 455ms
949:	learn: 6.3702005	total: 8.47s	remaining: 446ms
950:	learn: 6.3610080	total: 8.47s	remaining: 437ms
951:	learn: 6.3604975	total: 8.47s	remaining: 427ms
952:	learn: 6.3539277	total: 8.47s	remaining: 418ms
953:	learn: 6.3504252	total: 8.56s	remaining: 413ms
954:	learn: 6.3460760	total: 8.56s	remaining: 403ms
955:	learn: 6.3452134	total: 8.56s	remaining: 394ms
956:	learn: 6.3409673	total: 8.56s	remaining: 385ms
957:	learn: 6.3387261	total: 8.56s	remaining: 376ms
958:	learn: 6.3345146	total: 8.57s	remaining: 366ms
959:	learn: 6.3332364	total: 8.57s	remaining: 357ms
960:	learn: 6.3282250	total: 8.57s	remaining: 348ms
961:	learn: 6.3240426	total: 8.57s	remaining: 339ms
962:	learn: 6.3174942	total: 8.57s	remaining: 329ms
963:	learn: 6.3153936	total: 8.66s	remaining: 323ms
964:	learn: 6.3143926	total: 8.66s	remaining: 314ms
965:	learn: 6.3030102	total: 8.66s	remaining: 305ms
966:	learn: 6.3009963	total: 8.66s	remaining: 296ms
967:	learn: 6.2901483	total: 8.66s	remaining: 286ms
968:	learn: 6.2865029	total: 8.66s	remaining: 277ms
969:	learn: 6.2818897	total: 8.66s	remaining: 268ms
970:	learn: 6.2714670	total: 8.66s	remaining: 259ms
971:	learn: 6.2669121	total: 8.67s	remaining: 250ms
972:	learn: 6.2642673	total: 8.67s	remaining: 241ms
973:	learn: 6.2634958	total: 8.67s	remaining: 231ms
974:	learn: 6.2584032	total: 8.75s	remaining: 224ms
975:	learn: 6.2515369	total: 8.75s	remaining: 215ms
976:	learn: 6.2484831	total: 8.75s	remaining: 206ms
977:	learn: 6.2408605	total: 8.76s	remaining: 197ms

978:	learn: 6.2384499	total: 8.76s	remaining: 188ms
979:	learn: 6.2342979	total: 8.76s	remaining: 179ms
980:	learn: 6.2309917	total: 8.76s	remaining: 170ms
981:	learn: 6.2293654	total: 8.76s	remaining: 161ms
982:	learn: 6.2254330	total: 8.76s	remaining: 152ms
983:	learn: 6.2203052	total: 8.76s	remaining: 142ms
984:	learn: 6.2158207	total: 8.76s	remaining: 133ms
985:	learn: 6.2092976	total: 8.76s	remaining: 124ms
986:	learn: 6.2040331	total: 8.85s	remaining: 117ms
987:	learn: 6.1963359	total: 8.85s	remaining: 107ms
988:	learn: 6.1888558	total: 8.85s	remaining: 98.4ms
989:	learn: 6.1859544	total: 8.85s	remaining: 89.4ms
990:	learn: 6.1841329	total: 8.85s	remaining: 80.4ms
991:	learn: 6.1818519	total: 8.85s	remaining: 71.4ms
992:	learn: 6.1761442	total: 8.85s	remaining: 62.4ms
993:	learn: 6.1742145	total: 8.86s	remaining: 53.5ms
994:	learn: 6.1709170	total: 8.86s	remaining: 44.5ms
995:	learn: 6.1647949	total: 8.94s	remaining: 35.9ms
996:	learn: 6.1570890	total: 8.94s	remaining: 26.9ms
997:	learn: 6.1521409	total: 8.95s	remaining: 17.9ms
998:	learn: 6.1495387	total: 8.95s	remaining: 8.96ms
999:	learn: 6.1487889	total: 8.95s	remaining: 0us
0:	learn: 14.4454561	total: 1.3ms	remaining: 1.3s
1:	learn: 14.0679504	total: 2.75ms	remaining: 1.37s
2:	learn: 13.7625575	total: 3.9ms	remaining: 1.29s
3:	learn: 13.4705972	total: 5.03ms	remaining: 1.25s
4:	learn: 13.2146698	total: 6.18ms	remaining: 1.23s
5:	learn: 12.9967740	total: 8.56ms	remaining: 1.42s
6:	learn: 12.8227464	total: 9.7ms	remaining: 1.38s
7:	learn: 12.6465988	total: 10.8ms	remaining: 1.34s
8:	learn: 12.5126521	total: 11.9ms	remaining: 1.31s
9:	learn: 12.3680888	total: 13.1ms	remaining: 1.29s
10:	learn: 12.2713451	total: 14.1ms	remaining: 1.27s
11:	learn: 12.1142451	total: 72.1ms	remaining: 5.94s
12:	learn: 11.9906593	total: 73.6ms	remaining: 5.58s
13:	learn: 11.8825929	total: 74.7ms	remaining: 5.26s
14:	learn: 11.8085318	total: 75.8ms	remaining: 4.98s
15:	learn: 11.7368282	total: 76.9ms	remaining: 4.73s
16:	learn: 11.6613910	total: 78.3ms	remaining: 4.53s
17:	learn: 11.5834138	total: 79.5ms	remaining: 4.33s
18:	learn: 11.5182962	total: 80.6ms	remaining: 4.16s
19:	learn: 11.4298353	total: 81.8ms	remaining: 4.01s
20:	learn: 11.3914812	total: 88.1ms	remaining: 4.11s
21:	learn: 11.3488615	total: 168ms	remaining: 7.45s
22:	learn: 11.2936730	total: 169ms	remaining: 7.18s
23:	learn: 11.2381783	total: 170ms	remaining: 6.92s
24:	learn: 11.1762930	total: 171ms	remaining: 6.68s
25:	learn: 11.1086899	total: 172ms	remaining: 6.45s
26:	learn: 11.0475821	total: 173ms	remaining: 6.25s
27:	learn: 11.0075619	total: 175ms	remaining: 6.06s
28:	learn: 10.9523582	total: 176ms	remaining: 5.88s
29:	learn: 10.8920741	total: 177ms	remaining: 5.72s
30:	learn: 10.8333279	total: 178ms	remaining: 5.56s
31:	learn: 10.7929891	total: 179ms	remaining: 5.42s
32:	learn: 10.7409382	total: 264ms	remaining: 7.74s
33:	learn: 10.6740550	total: 267ms	remaining: 7.58s
34:	learn: 10.6360112	total: 268ms	remaining: 7.39s
35:	learn: 10.6225541	total: 269ms	remaining: 7.21s
36:	learn: 10.5744484	total: 270ms	remaining: 7.03s
37:	learn: 10.5426637	total: 272ms	remaining: 6.88s
38:	learn: 10.5003999	total: 273ms	remaining: 6.73s

39:	learn: 10.4615241	total: 274ms	remaining: 6.58s
40:	learn: 10.4337998	total: 275ms	remaining: 6.44s
41:	learn: 10.3806726	total: 276ms	remaining: 6.3s
42:	learn: 10.3479775	total: 359ms	remaining: 7.99s
43:	learn: 10.3101854	total: 360ms	remaining: 7.83s
44:	learn: 10.2950182	total: 362ms	remaining: 7.67s
45:	learn: 10.2683909	total: 363ms	remaining: 7.52s
46:	learn: 10.2526043	total: 364ms	remaining: 7.38s
47:	learn: 10.2048873	total: 366ms	remaining: 7.26s
48:	learn: 10.1886200	total: 367ms	remaining: 7.13s
49:	learn: 10.1610130	total: 368ms	remaining: 7s
50:	learn: 10.1430109	total: 369ms	remaining: 6.87s
51:	learn: 10.1265517	total: 370ms	remaining: 6.75s
52:	learn: 10.0973884	total: 372ms	remaining: 6.64s
53:	learn: 10.0838500	total: 373ms	remaining: 6.53s
54:	learn: 10.0646104	total: 455ms	remaining: 7.82s
55:	learn: 10.0403452	total: 458ms	remaining: 7.72s
56:	learn: 10.0331966	total: 459ms	remaining: 7.6s
57:	learn: 10.0098799	total: 460ms	remaining: 7.48s
58:	learn: 9.9762635	total: 462ms	remaining: 7.36s
59:	learn: 9.9628770	total: 463ms	remaining: 7.25s
60:	learn: 9.9485764	total: 464ms	remaining: 7.14s
61:	learn: 9.9138629	total: 465ms	remaining: 7.04s
62:	learn: 9.8880358	total: 466ms	remaining: 6.93s
63:	learn: 9.8696090	total: 467ms	remaining: 6.83s
64:	learn: 9.8529821	total: 552ms	remaining: 7.93s
65:	learn: 9.8396298	total: 553ms	remaining: 7.83s
66:	learn: 9.8089961	total: 555ms	remaining: 7.72s
67:	learn: 9.7638903	total: 556ms	remaining: 7.62s
68:	learn: 9.7355768	total: 557ms	remaining: 7.51s
69:	learn: 9.7246592	total: 558ms	remaining: 7.41s
70:	learn: 9.7080684	total: 560ms	remaining: 7.33s
71:	learn: 9.6978940	total: 562ms	remaining: 7.24s
72:	learn: 9.6852831	total: 647ms	remaining: 8.22s
73:	learn: 9.6508491	total: 649ms	remaining: 8.12s
74:	learn: 9.6090695	total: 650ms	remaining: 8.02s
75:	learn: 9.5929404	total: 651ms	remaining: 7.91s
76:	learn: 9.5501363	total: 652ms	remaining: 7.82s
77:	learn: 9.5114739	total: 654ms	remaining: 7.72s
78:	learn: 9.5003065	total: 655ms	remaining: 7.63s
79:	learn: 9.4810911	total: 656ms	remaining: 7.54s
80:	learn: 9.4500688	total: 657ms	remaining: 7.45s
81:	learn: 9.4033428	total: 658ms	remaining: 7.37s
82:	learn: 9.3625522	total: 659ms	remaining: 7.28s
83:	learn: 9.3421070	total: 743ms	remaining: 8.1s
84:	learn: 9.2819438	total: 744ms	remaining: 8.01s
85:	learn: 9.2573472	total: 745ms	remaining: 7.92s
86:	learn: 9.2458950	total: 746ms	remaining: 7.83s
87:	learn: 9.2308921	total: 747ms	remaining: 7.75s
88:	learn: 9.2028776	total: 748ms	remaining: 7.66s
89:	learn: 9.1650527	total: 750ms	remaining: 7.58s
90:	learn: 9.1201146	total: 751ms	remaining: 7.5s
91:	learn: 9.1014400	total: 752ms	remaining: 7.42s
92:	learn: 9.0819957	total: 753ms	remaining: 7.34s
93:	learn: 9.0477920	total: 754ms	remaining: 7.27s
94:	learn: 9.0326174	total: 755ms	remaining: 7.19s
95:	learn: 9.0182800	total: 756ms	remaining: 7.12s
96:	learn: 9.0118900	total: 758ms	remaining: 7.05s
97:	learn: 8.9762053	total: 759ms	remaining: 6.99s
98:	learn: 8.9625113	total: 761ms	remaining: 6.93s
99:	learn: 8.9309311	total: 763ms	remaining: 6.87s

100:	learn: 8.9136908	total: 765ms	remaining: 6.81s
101:	learn: 8.8798380	total: 766ms	remaining: 6.74s
102:	learn: 8.8753585	total: 767ms	remaining: 6.68s
103:	learn: 8.8597181	total: 768ms	remaining: 6.62s
104:	learn: 8.8481166	total: 851ms	remaining: 7.26s
105:	learn: 8.8136672	total: 853ms	remaining: 7.19s
106:	learn: 8.7895747	total: 854ms	remaining: 7.13s
107:	learn: 8.7629371	total: 855ms	remaining: 7.06s
108:	learn: 8.7384122	total: 856ms	remaining: 7s
109:	learn: 8.7310917	total: 857ms	remaining: 6.94s
110:	learn: 8.7069657	total: 858ms	remaining: 6.88s
111:	learn: 8.6801240	total: 860ms	remaining: 6.82s
112:	learn: 8.6501275	total: 861ms	remaining: 6.76s
113:	learn: 8.6394426	total: 863ms	remaining: 6.7s
114:	learn: 8.6332422	total: 864ms	remaining: 6.65s
115:	learn: 8.6219826	total: 865ms	remaining: 6.59s
116:	learn: 8.5756662	total: 947ms	remaining: 7.15s
117:	learn: 8.5705732	total: 949ms	remaining: 7.09s
118:	learn: 8.5452505	total: 950ms	remaining: 7.03s
119:	learn: 8.5207478	total: 951ms	remaining: 6.97s
120:	learn: 8.4933912	total: 952ms	remaining: 6.92s
121:	learn: 8.4787136	total: 954ms	remaining: 6.86s
122:	learn: 8.4477018	total: 956ms	remaining: 6.81s
123:	learn: 8.4273632	total: 962ms	remaining: 6.8s
124:	learn: 8.3744712	total: 963ms	remaining: 6.74s
125:	learn: 8.3542004	total: 965ms	remaining: 6.69s
126:	learn: 8.3218936	total: 1.04s	remaining: 7.16s
127:	learn: 8.2905515	total: 1.04s	remaining: 7.11s
128:	learn: 8.2862196	total: 1.04s	remaining: 7.05s
129:	learn: 8.2316960	total: 1.04s	remaining: 7s
130:	learn: 8.2289423	total: 1.05s	remaining: 6.94s
131:	learn: 8.2021649	total: 1.05s	remaining: 6.89s
132:	learn: 8.1743157	total: 1.05s	remaining: 6.84s
133:	learn: 8.1425863	total: 1.05s	remaining: 6.79s
134:	learn: 8.1156784	total: 1.05s	remaining: 6.74s
135:	learn: 8.1120512	total: 1.05s	remaining: 6.69s
136:	learn: 8.0913246	total: 1.05s	remaining: 6.64s
137:	learn: 8.0880417	total: 1.14s	remaining: 7.11s
138:	learn: 8.0775694	total: 1.14s	remaining: 7.06s
139:	learn: 8.0565879	total: 1.14s	remaining: 7s
140:	learn: 8.0383669	total: 1.14s	remaining: 6.95s
141:	learn: 7.9925754	total: 1.14s	remaining: 6.9s
142:	learn: 7.9696534	total: 1.14s	remaining: 6.86s
143:	learn: 7.9476061	total: 1.14s	remaining: 6.81s
144:	learn: 7.9215805	total: 1.15s	remaining: 6.76s
145:	learn: 7.9016664	total: 1.15s	remaining: 6.72s
146:	learn: 7.8751198	total: 1.15s	remaining: 6.67s
147:	learn: 7.8673943	total: 1.24s	remaining: 7.12s
148:	learn: 7.8472403	total: 1.24s	remaining: 7.08s
149:	learn: 7.8373225	total: 1.24s	remaining: 7.03s
150:	learn: 7.8221129	total: 1.24s	remaining: 6.98s
151:	learn: 7.8024056	total: 1.24s	remaining: 6.93s
152:	learn: 7.7863017	total: 1.24s	remaining: 6.89s
153:	learn: 7.7524856	total: 1.25s	remaining: 6.84s
154:	learn: 7.7353573	total: 1.25s	remaining: 6.79s
155:	learn: 7.7323798	total: 1.25s	remaining: 6.75s
156:	learn: 7.7142440	total: 1.25s	remaining: 6.7s
157:	learn: 7.6811890	total: 1.25s	remaining: 6.66s
158:	learn: 7.6485275	total: 1.25s	remaining: 6.62s
159:	learn: 7.6243129	total: 1.33s	remaining: 6.98s
160:	learn: 7.6214019	total: 1.33s	remaining: 6.93s

161:	learn: 7.6108825	total: 1.33s	remaining: 6.89s
162:	learn: 7.5871930	total: 1.33s	remaining: 6.85s
163:	learn: 7.5534460	total: 1.33s	remaining: 6.8s
164:	learn: 7.5334062	total: 1.34s	remaining: 6.76s
165:	learn: 7.5095724	total: 1.34s	remaining: 6.72s
166:	learn: 7.4925902	total: 1.34s	remaining: 6.67s
167:	learn: 7.4764921	total: 1.34s	remaining: 6.63s
168:	learn: 7.4574669	total: 1.43s	remaining: 7.01s
169:	learn: 7.4451271	total: 1.43s	remaining: 6.97s
170:	learn: 7.4088727	total: 1.43s	remaining: 6.92s
171:	learn: 7.4061103	total: 1.43s	remaining: 6.88s
172:	learn: 7.3880872	total: 1.43s	remaining: 6.84s
173:	learn: 7.3673557	total: 1.43s	remaining: 6.8s
174:	learn: 7.3397556	total: 1.43s	remaining: 6.75s
175:	learn: 7.3374806	total: 1.43s	remaining: 6.71s
176:	learn: 7.3184560	total: 1.44s	remaining: 6.67s
177:	learn: 7.2972892	total: 1.44s	remaining: 6.63s
178:	learn: 7.2763599	total: 1.52s	remaining: 6.98s
179:	learn: 7.2368035	total: 1.52s	remaining: 6.94s
180:	learn: 7.2123420	total: 1.52s	remaining: 6.89s
181:	learn: 7.2097584	total: 1.52s	remaining: 6.85s
182:	learn: 7.1992310	total: 1.52s	remaining: 6.81s
183:	learn: 7.1828897	total: 1.53s	remaining: 6.77s
184:	learn: 7.1626951	total: 1.53s	remaining: 6.73s
185:	learn: 7.1604764	total: 1.53s	remaining: 6.69s
186:	learn: 7.1447136	total: 1.53s	remaining: 6.65s
187:	learn: 7.1256468	total: 1.53s	remaining: 6.62s
188:	learn: 7.1065943	total: 1.62s	remaining: 6.94s
189:	learn: 7.0798097	total: 1.62s	remaining: 6.9s
190:	learn: 7.0618520	total: 1.62s	remaining: 6.86s
191:	learn: 7.0451870	total: 1.62s	remaining: 6.82s
192:	learn: 7.0278982	total: 1.62s	remaining: 6.78s
193:	learn: 7.0258866	total: 1.62s	remaining: 6.75s
194:	learn: 6.9906686	total: 1.63s	remaining: 6.71s
195:	learn: 6.9789823	total: 1.63s	remaining: 6.68s
196:	learn: 6.9731799	total: 1.63s	remaining: 6.64s
197:	learn: 6.9669710	total: 1.63s	remaining: 6.6s
198:	learn: 6.9472932	total: 1.71s	remaining: 6.9s
199:	learn: 6.9348072	total: 1.71s	remaining: 6.86s
200:	learn: 6.9233050	total: 1.72s	remaining: 6.82s
201:	learn: 6.9029255	total: 1.72s	remaining: 6.78s
202:	learn: 6.8818881	total: 1.72s	remaining: 6.75s
203:	learn: 6.8659852	total: 1.72s	remaining: 6.71s
204:	learn: 6.8514055	total: 1.72s	remaining: 6.67s
205:	learn: 6.8432304	total: 1.72s	remaining: 6.64s
206:	learn: 6.8311915	total: 1.72s	remaining: 6.6s
207:	learn: 6.8118247	total: 1.72s	remaining: 6.57s
208:	learn: 6.7809441	total: 1.73s	remaining: 6.53s
209:	learn: 6.7545413	total: 1.81s	remaining: 6.81s
210:	learn: 6.7521133	total: 1.81s	remaining: 6.77s
211:	learn: 6.7501181	total: 1.81s	remaining: 6.74s
212:	learn: 6.7299229	total: 1.81s	remaining: 6.71s
213:	learn: 6.7060315	total: 1.82s	remaining: 6.67s
214:	learn: 6.6904465	total: 1.82s	remaining: 6.63s
215:	learn: 6.6826940	total: 1.82s	remaining: 6.6s
216:	learn: 6.6652017	total: 1.82s	remaining: 6.57s
217:	learn: 6.6501010	total: 1.82s	remaining: 6.53s
218:	learn: 6.6356673	total: 1.82s	remaining: 6.5s
219:	learn: 6.6335323	total: 1.91s	remaining: 6.75s
220:	learn: 6.6246116	total: 1.91s	remaining: 6.72s
221:	learn: 6.6071915	total: 1.91s	remaining: 6.68s

222:	learn: 6.6056066	total: 1.91s	remaining: 6.65s
223:	learn: 6.5994618	total: 1.91s	remaining: 6.62s
224:	learn: 6.5877703	total: 1.91s	remaining: 6.58s
225:	learn: 6.5792620	total: 1.91s	remaining: 6.55s
226:	learn: 6.5631830	total: 1.91s	remaining: 6.52s
227:	learn: 6.5515059	total: 1.92s	remaining: 6.48s
228:	learn: 6.5285617	total: 1.92s	remaining: 6.45s
229:	learn: 6.4943797	total: 1.92s	remaining: 6.42s
230:	learn: 6.4831068	total: 1.92s	remaining: 6.39s
231:	learn: 6.4814726	total: 2s	remaining: 6.62s
232:	learn: 6.4640783	total: 2s	remaining: 6.59s
233:	learn: 6.4301774	total: 2s	remaining: 6.56s
234:	learn: 6.4155813	total: 2s	remaining: 6.53s
235:	learn: 6.4033402	total: 2.01s	remaining: 6.5s
236:	learn: 6.4018248	total: 2.01s	remaining: 6.46s
237:	learn: 6.3916248	total: 2.01s	remaining: 6.43s
238:	learn: 6.3735781	total: 2.01s	remaining: 6.4s
239:	learn: 6.3555844	total: 2.01s	remaining: 6.37s
240:	learn: 6.3409842	total: 2.01s	remaining: 6.34s
241:	learn: 6.3262583	total: 2.1s	remaining: 6.57s
242:	learn: 6.3027414	total: 2.1s	remaining: 6.53s
243:	learn: 6.2925773	total: 2.1s	remaining: 6.5s
244:	learn: 6.2763178	total: 2.1s	remaining: 6.47s
245:	learn: 6.2624698	total: 2.1s	remaining: 6.44s
246:	learn: 6.2399661	total: 2.1s	remaining: 6.41s
247:	learn: 6.2384127	total: 2.1s	remaining: 6.38s
248:	learn: 6.2287181	total: 2.1s	remaining: 6.35s
249:	learn: 6.2273789	total: 2.1s	remaining: 6.32s
250:	learn: 6.2069689	total: 2.11s	remaining: 6.29s
251:	learn: 6.2056280	total: 2.11s	remaining: 6.26s
252:	learn: 6.2045151	total: 2.19s	remaining: 6.47s
253:	learn: 6.1746460	total: 2.19s	remaining: 6.44s
254:	learn: 6.1700675	total: 2.19s	remaining: 6.41s
255:	learn: 6.1515458	total: 2.19s	remaining: 6.38s
256:	learn: 6.1262531	total: 2.2s	remaining: 6.35s
257:	learn: 6.1194350	total: 2.2s	remaining: 6.32s
258:	learn: 6.1135229	total: 2.2s	remaining: 6.29s
259:	learn: 6.1010069	total: 2.2s	remaining: 6.26s
260:	learn: 6.0924651	total: 2.2s	remaining: 6.24s
261:	learn: 6.0907584	total: 2.2s	remaining: 6.21s
262:	learn: 6.0779264	total: 2.29s	remaining: 6.41s
263:	learn: 6.0636347	total: 2.29s	remaining: 6.38s
264:	learn: 6.0475659	total: 2.29s	remaining: 6.35s
265:	learn: 6.0423912	total: 2.29s	remaining: 6.32s
266:	learn: 6.0264304	total: 2.29s	remaining: 6.29s
267:	learn: 6.0173345	total: 2.29s	remaining: 6.26s
268:	learn: 6.0017514	total: 2.29s	remaining: 6.24s
269:	learn: 5.9932446	total: 2.29s	remaining: 6.21s
270:	learn: 5.9871541	total: 2.3s	remaining: 6.18s
271:	learn: 5.9739151	total: 2.3s	remaining: 6.15s
272:	learn: 5.9608431	total: 2.3s	remaining: 6.12s
273:	learn: 5.9599001	total: 2.31s	remaining: 6.11s
274:	learn: 5.9497099	total: 2.38s	remaining: 6.28s
275:	learn: 5.9332730	total: 2.38s	remaining: 6.25s
276:	learn: 5.9321111	total: 2.38s	remaining: 6.23s
277:	learn: 5.9141664	total: 2.39s	remaining: 6.2s
278:	learn: 5.9131827	total: 2.39s	remaining: 6.17s
279:	learn: 5.8976731	total: 2.39s	remaining: 6.15s
280:	learn: 5.8889611	total: 2.39s	remaining: 6.12s
281:	learn: 5.8750938	total: 2.39s	remaining: 6.09s
282:	learn: 5.8623929	total: 2.39s	remaining: 6.06s

283:	learn: 5.8449326	total: 2.39s	remaining: 6.04s
284:	learn: 5.8219957	total: 2.48s	remaining: 6.22s
285:	learn: 5.8002280	total: 2.48s	remaining: 6.19s
286:	learn: 5.7884004	total: 2.48s	remaining: 6.16s
287:	learn: 5.7770939	total: 2.48s	remaining: 6.13s
288:	learn: 5.7685909	total: 2.48s	remaining: 6.11s
289:	learn: 5.7643167	total: 2.48s	remaining: 6.08s
290:	learn: 5.7548405	total: 2.48s	remaining: 6.05s
291:	learn: 5.7413592	total: 2.49s	remaining: 6.03s
292:	learn: 5.7272495	total: 2.49s	remaining: 6s
293:	learn: 5.7205945	total: 2.49s	remaining: 5.98s
294:	learn: 5.7165059	total: 2.49s	remaining: 5.95s
295:	learn: 5.7010455	total: 2.57s	remaining: 6.12s
296:	learn: 5.6909355	total: 2.58s	remaining: 6.09s
297:	learn: 5.6898281	total: 2.58s	remaining: 6.07s
298:	learn: 5.6760376	total: 2.58s	remaining: 6.04s
299:	learn: 5.6648418	total: 2.58s	remaining: 6.02s
300:	learn: 5.6522097	total: 2.58s	remaining: 5.99s
301:	learn: 5.6425710	total: 2.58s	remaining: 5.97s
302:	learn: 5.6246931	total: 2.58s	remaining: 5.94s
303:	learn: 5.6141769	total: 2.58s	remaining: 5.92s
304:	learn: 5.5985015	total: 2.58s	remaining: 5.89s
305:	learn: 5.5730267	total: 2.59s	remaining: 5.87s
306:	learn: 5.5659759	total: 2.67s	remaining: 6.03s
307:	learn: 5.5649307	total: 2.67s	remaining: 6s
308:	learn: 5.5405704	total: 2.67s	remaining: 5.97s
309:	learn: 5.5171484	total: 2.67s	remaining: 5.95s
310:	learn: 5.5082305	total: 2.67s	remaining: 5.92s
311:	learn: 5.5011793	total: 2.67s	remaining: 5.9s
312:	learn: 5.4838631	total: 2.68s	remaining: 5.87s
313:	learn: 5.4722208	total: 2.68s	remaining: 5.85s
314:	learn: 5.4600104	total: 2.68s	remaining: 5.83s
315:	learn: 5.4591852	total: 2.68s	remaining: 5.8s
316:	learn: 5.4410009	total: 2.68s	remaining: 5.78s
317:	learn: 5.4234073	total: 2.76s	remaining: 5.93s
318:	learn: 5.4183869	total: 2.77s	remaining: 5.9s
319:	learn: 5.4056150	total: 2.77s	remaining: 5.88s
320:	learn: 5.3985537	total: 2.77s	remaining: 5.86s
321:	learn: 5.3892137	total: 2.77s	remaining: 5.83s
322:	learn: 5.3798921	total: 2.77s	remaining: 5.81s
323:	learn: 5.3648747	total: 2.77s	remaining: 5.78s
324:	learn: 5.3639778	total: 2.77s	remaining: 5.76s
325:	learn: 5.3490209	total: 2.77s	remaining: 5.74s
326:	learn: 5.3384494	total: 2.78s	remaining: 5.71s
327:	learn: 5.3236894	total: 2.86s	remaining: 5.86s
328:	learn: 5.3167148	total: 2.86s	remaining: 5.84s
329:	learn: 5.3158368	total: 2.86s	remaining: 5.81s
330:	learn: 5.3091831	total: 2.86s	remaining: 5.79s
331:	learn: 5.3023231	total: 2.87s	remaining: 5.76s
332:	learn: 5.2976605	total: 2.87s	remaining: 5.74s
333:	learn: 5.2865510	total: 2.87s	remaining: 5.72s
334:	learn: 5.2742750	total: 2.87s	remaining: 5.69s
335:	learn: 5.2673996	total: 2.87s	remaining: 5.67s
336:	learn: 5.2664879	total: 2.87s	remaining: 5.65s
337:	learn: 5.2546891	total: 2.87s	remaining: 5.62s
338:	learn: 5.2513377	total: 2.87s	remaining: 5.6s
339:	learn: 5.2413266	total: 2.96s	remaining: 5.74s
340:	learn: 5.2348038	total: 2.96s	remaining: 5.71s
341:	learn: 5.2152755	total: 2.96s	remaining: 5.69s
342:	learn: 5.2142653	total: 2.96s	remaining: 5.67s
343:	learn: 5.2003999	total: 2.96s	remaining: 5.65s

344:	learn: 5.1994031	total: 2.96s	remaining: 5.62s
345:	learn: 5.1969930	total: 2.96s	remaining: 5.6s
346:	learn: 5.1959956	total: 2.96s	remaining: 5.58s
347:	learn: 5.1866070	total: 2.97s	remaining: 5.57s
348:	learn: 5.1657822	total: 3.05s	remaining: 5.69s
349:	learn: 5.1566566	total: 3.05s	remaining: 5.67s
350:	learn: 5.1481782	total: 3.05s	remaining: 5.65s
351:	learn: 5.1390956	total: 3.06s	remaining: 5.63s
352:	learn: 5.1231454	total: 3.06s	remaining: 5.6s
353:	learn: 5.1121795	total: 3.06s	remaining: 5.58s
354:	learn: 5.1009565	total: 3.06s	remaining: 5.56s
355:	learn: 5.0909966	total: 3.06s	remaining: 5.54s
356:	learn: 5.0889640	total: 3.06s	remaining: 5.51s
357:	learn: 5.0879449	total: 3.06s	remaining: 5.49s
358:	learn: 5.0781052	total: 3.06s	remaining: 5.47s
359:	learn: 5.0661525	total: 3.06s	remaining: 5.45s
360:	learn: 5.0491226	total: 3.06s	remaining: 5.43s
361:	learn: 5.0408886	total: 3.15s	remaining: 5.54s
362:	learn: 5.0360717	total: 3.15s	remaining: 5.52s
363:	learn: 5.0264952	total: 3.15s	remaining: 5.5s
364:	learn: 5.0159793	total: 3.15s	remaining: 5.48s
365:	learn: 5.0103801	total: 3.15s	remaining: 5.46s
366:	learn: 4.9942136	total: 3.15s	remaining: 5.44s
367:	learn: 4.9869091	total: 3.15s	remaining: 5.42s
368:	learn: 4.9769713	total: 3.15s	remaining: 5.39s
369:	learn: 4.9761645	total: 3.15s	remaining: 5.37s
370:	learn: 4.9753954	total: 3.16s	remaining: 5.35s
371:	learn: 4.9745960	total: 3.24s	remaining: 5.47s
372:	learn: 4.9692866	total: 3.24s	remaining: 5.45s
373:	learn: 4.9609919	total: 3.25s	remaining: 5.43s
374:	learn: 4.9493759	total: 3.25s	remaining: 5.41s
375:	learn: 4.9484733	total: 3.25s	remaining: 5.39s
376:	learn: 4.9437753	total: 3.25s	remaining: 5.37s
377:	learn: 4.9331444	total: 3.25s	remaining: 5.35s
378:	learn: 4.9193135	total: 3.25s	remaining: 5.33s
379:	learn: 4.9088155	total: 3.25s	remaining: 5.31s
380:	learn: 4.9036206	total: 3.25s	remaining: 5.29s
381:	learn: 4.8909824	total: 3.26s	remaining: 5.27s
382:	learn: 4.8828887	total: 3.26s	remaining: 5.25s
383:	learn: 4.8736686	total: 3.34s	remaining: 5.35s
384:	learn: 4.8616428	total: 3.34s	remaining: 5.33s
385:	learn: 4.8490032	total: 3.34s	remaining: 5.31s
386:	learn: 4.8361730	total: 3.34s	remaining: 5.29s
387:	learn: 4.8245228	total: 3.34s	remaining: 5.27s
388:	learn: 4.8120778	total: 3.34s	remaining: 5.25s
389:	learn: 4.8033016	total: 3.34s	remaining: 5.23s
390:	learn: 4.7967588	total: 3.35s	remaining: 5.21s
391:	learn: 4.7795290	total: 3.35s	remaining: 5.19s
392:	learn: 4.7789054	total: 3.35s	remaining: 5.17s
393:	learn: 4.7553221	total: 3.35s	remaining: 5.15s
394:	learn: 4.7435824	total: 3.35s	remaining: 5.13s
395:	learn: 4.7325068	total: 3.43s	remaining: 5.24s
396:	learn: 4.7263396	total: 3.44s	remaining: 5.22s
397:	learn: 4.7126791	total: 3.44s	remaining: 5.2s
398:	learn: 4.7120409	total: 3.44s	remaining: 5.18s
399:	learn: 4.6987072	total: 3.44s	remaining: 5.16s
400:	learn: 4.6933694	total: 3.44s	remaining: 5.14s
401:	learn: 4.6924974	total: 3.44s	remaining: 5.12s
402:	learn: 4.6847211	total: 3.44s	remaining: 5.1s
403:	learn: 4.6770342	total: 3.44s	remaining: 5.08s
404:	learn: 4.6683770	total: 3.44s	remaining: 5.06s

405:	learn: 4.6643964	total: 3.44s	remaining: 5.04s
406:	learn: 4.6618416	total: 3.53s	remaining: 5.14s
407:	learn: 4.6432625	total: 3.53s	remaining: 5.12s
408:	learn: 4.6352838	total: 3.53s	remaining: 5.1s
409:	learn: 4.6281973	total: 3.53s	remaining: 5.08s
410:	learn: 4.6273034	total: 3.53s	remaining: 5.06s
411:	learn: 4.6211556	total: 3.53s	remaining: 5.04s
412:	learn: 4.6097603	total: 3.54s	remaining: 5.03s
413:	learn: 4.6014581	total: 3.54s	remaining: 5.01s
414:	learn: 4.5882906	total: 3.54s	remaining: 4.99s
415:	learn: 4.5703917	total: 3.54s	remaining: 4.97s
416:	learn: 4.5575758	total: 3.54s	remaining: 4.95s
417:	learn: 4.5525541	total: 3.63s	remaining: 5.05s
418:	learn: 4.5416722	total: 3.64s	remaining: 5.05s
419:	learn: 4.5279214	total: 3.66s	remaining: 5.05s
420:	learn: 4.5187654	total: 3.67s	remaining: 5.05s
421:	learn: 4.5071610	total: 3.68s	remaining: 5.04s
422:	learn: 4.4976373	total: 3.68s	remaining: 5.02s
423:	learn: 4.4930904	total: 3.68s	remaining: 5s
424:	learn: 4.4849472	total: 3.68s	remaining: 4.98s
425:	learn: 4.4724638	total: 3.68s	remaining: 4.96s
426:	learn: 4.4673340	total: 3.72s	remaining: 4.99s
427:	learn: 4.4564248	total: 3.72s	remaining: 4.97s
428:	learn: 4.4395108	total: 3.72s	remaining: 4.95s
429:	learn: 4.4359525	total: 3.72s	remaining: 4.93s
430:	learn: 4.4263839	total: 3.72s	remaining: 4.91s
431:	learn: 4.4177620	total: 3.72s	remaining: 4.89s
432:	learn: 4.4111262	total: 3.72s	remaining: 4.88s
433:	learn: 4.4063647	total: 3.73s	remaining: 4.86s
434:	learn: 4.3950824	total: 3.73s	remaining: 4.84s
435:	learn: 4.3945289	total: 3.73s	remaining: 4.82s
436:	learn: 4.3855613	total: 3.81s	remaining: 4.91s
437:	learn: 4.3714091	total: 3.81s	remaining: 4.89s
438:	learn: 4.3651354	total: 3.81s	remaining: 4.88s
439:	learn: 4.3608964	total: 3.82s	remaining: 4.86s
440:	learn: 4.3539966	total: 3.82s	remaining: 4.84s
441:	learn: 4.3468596	total: 3.82s	remaining: 4.82s
442:	learn: 4.3401825	total: 3.82s	remaining: 4.8s
443:	learn: 4.3366472	total: 3.82s	remaining: 4.79s
444:	learn: 4.3309483	total: 3.82s	remaining: 4.77s
445:	learn: 4.3304775	total: 3.83s	remaining: 4.75s
446:	learn: 4.3189416	total: 3.91s	remaining: 4.83s
447:	learn: 4.3088715	total: 3.91s	remaining: 4.82s
448:	learn: 4.2987945	total: 3.91s	remaining: 4.8s
449:	learn: 4.2934824	total: 3.91s	remaining: 4.78s
450:	learn: 4.2894471	total: 3.91s	remaining: 4.76s
451:	learn: 4.2799182	total: 3.91s	remaining: 4.74s
452:	learn: 4.2751685	total: 3.91s	remaining: 4.73s
453:	learn: 4.2684201	total: 3.92s	remaining: 4.71s
454:	learn: 4.2636318	total: 3.92s	remaining: 4.69s
455:	learn: 4.2631527	total: 3.92s	remaining: 4.67s
456:	learn: 4.2585894	total: 3.92s	remaining: 4.66s
457:	learn: 4.2470273	total: 4s	remaining: 4.74s
458:	learn: 4.2353962	total: 4s	remaining: 4.72s
459:	learn: 4.2348906	total: 4s	remaining: 4.7s
460:	learn: 4.2245233	total: 4.01s	remaining: 4.68s
461:	learn: 4.2199313	total: 4.01s	remaining: 4.67s
462:	learn: 4.2096422	total: 4.02s	remaining: 4.67s
463:	learn: 4.1979285	total: 4.03s	remaining: 4.65s
464:	learn: 4.1887000	total: 4.03s	remaining: 4.63s
465:	learn: 4.1841597	total: 4.03s	remaining: 4.62s

466:	learn: 4.1788089	total: 4.1s	remaining: 4.68s
467:	learn: 4.1705973	total: 4.1s	remaining: 4.66s
468:	learn: 4.1636796	total: 4.1s	remaining: 4.64s
469:	learn: 4.1568138	total: 4.1s	remaining: 4.63s
470:	learn: 4.1454144	total: 4.1s	remaining: 4.61s
471:	learn: 4.1382091	total: 4.11s	remaining: 4.59s
472:	learn: 4.1377814	total: 4.11s	remaining: 4.58s
473:	learn: 4.1333704	total: 4.11s	remaining: 4.56s
474:	learn: 4.1232524	total: 4.11s	remaining: 4.54s
475:	learn: 4.1228518	total: 4.11s	remaining: 4.53s
476:	learn: 4.1107348	total: 4.11s	remaining: 4.51s
477:	learn: 4.1103706	total: 4.11s	remaining: 4.49s
478:	learn: 4.1001901	total: 4.19s	remaining: 4.56s
479:	learn: 4.0998010	total: 4.2s	remaining: 4.54s
480:	learn: 4.0949014	total: 4.2s	remaining: 4.53s
481:	learn: 4.0886340	total: 4.2s	remaining: 4.51s
482:	learn: 4.0811674	total: 4.2s	remaining: 4.5s
483:	learn: 4.0738703	total: 4.2s	remaining: 4.48s
484:	learn: 4.0625339	total: 4.2s	remaining: 4.46s
485:	learn: 4.0600323	total: 4.2s	remaining: 4.45s
486:	learn: 4.0522430	total: 4.2s	remaining: 4.43s
487:	learn: 4.0518079	total: 4.21s	remaining: 4.41s
488:	learn: 4.0448153	total: 4.21s	remaining: 4.4s
489:	learn: 4.0381820	total: 4.29s	remaining: 4.47s
490:	learn: 4.0378777	total: 4.29s	remaining: 4.45s
491:	learn: 4.0328401	total: 4.29s	remaining: 4.43s
492:	learn: 4.0235672	total: 4.29s	remaining: 4.42s
493:	learn: 4.0169465	total: 4.3s	remaining: 4.4s
494:	learn: 4.0047675	total: 4.3s	remaining: 4.38s
495:	learn: 4.0005306	total: 4.3s	remaining: 4.37s
496:	learn: 3.9973744	total: 4.3s	remaining: 4.35s
497:	learn: 3.9970419	total: 4.3s	remaining: 4.33s
498:	learn: 3.9873710	total: 4.3s	remaining: 4.32s
499:	learn: 3.9800741	total: 4.3s	remaining: 4.3s
500:	learn: 3.9717331	total: 4.38s	remaining: 4.37s
501:	learn: 3.9653987	total: 4.39s	remaining: 4.35s
502:	learn: 3.9610176	total: 4.39s	remaining: 4.33s
503:	learn: 3.9522370	total: 4.39s	remaining: 4.32s
504:	learn: 3.9429070	total: 4.39s	remaining: 4.3s
505:	learn: 3.9340619	total: 4.39s	remaining: 4.29s
506:	learn: 3.9250849	total: 4.39s	remaining: 4.27s
507:	learn: 3.9185654	total: 4.39s	remaining: 4.25s
508:	learn: 3.9153060	total: 4.39s	remaining: 4.24s
509:	learn: 3.9048621	total: 4.4s	remaining: 4.22s
510:	learn: 3.8990298	total: 4.4s	remaining: 4.21s
511:	learn: 3.8987270	total: 4.4s	remaining: 4.2s
512:	learn: 3.8889255	total: 4.48s	remaining: 4.25s
513:	learn: 3.8791970	total: 4.48s	remaining: 4.24s
514:	learn: 3.8725053	total: 4.48s	remaining: 4.22s
515:	learn: 3.8661023	total: 4.49s	remaining: 4.21s
516:	learn: 3.8594914	total: 4.49s	remaining: 4.19s
517:	learn: 3.8508499	total: 4.49s	remaining: 4.18s
518:	learn: 3.8403962	total: 4.49s	remaining: 4.16s
519:	learn: 3.8312879	total: 4.49s	remaining: 4.14s
520:	learn: 3.8227177	total: 4.49s	remaining: 4.13s
521:	learn: 3.8182703	total: 4.49s	remaining: 4.12s
522:	learn: 3.8043856	total: 4.58s	remaining: 4.17s
523:	learn: 3.7939576	total: 4.58s	remaining: 4.16s
524:	learn: 3.7895587	total: 4.58s	remaining: 4.14s
525:	learn: 3.7762306	total: 4.58s	remaining: 4.13s
526:	learn: 3.7707573	total: 4.58s	remaining: 4.11s

527:	learn: 3.7629016	total: 4.58s	remaining: 4.1s
528:	learn: 3.7560610	total: 4.58s	remaining: 4.08s
529:	learn: 3.7520562	total: 4.59s	remaining: 4.07s
530:	learn: 3.7517956	total: 4.59s	remaining: 4.05s
531:	learn: 3.7445704	total: 4.59s	remaining: 4.04s
532:	learn: 3.7383933	total: 4.59s	remaining: 4.02s
533:	learn: 3.7212789	total: 4.67s	remaining: 4.08s
534:	learn: 3.7108710	total: 4.67s	remaining: 4.06s
535:	learn: 3.7025739	total: 4.68s	remaining: 4.05s
536:	learn: 3.6987432	total: 4.68s	remaining: 4.03s
537:	learn: 3.6905423	total: 4.68s	remaining: 4.02s
538:	learn: 3.6828316	total: 4.68s	remaining: 4s
539:	learn: 3.6805288	total: 4.68s	remaining: 3.99s
540:	learn: 3.6736652	total: 4.68s	remaining: 3.97s
541:	learn: 3.6617003	total: 4.68s	remaining: 3.96s
542:	learn: 3.6560058	total: 4.68s	remaining: 3.94s
543:	learn: 3.6506539	total: 4.69s	remaining: 3.93s
544:	learn: 3.6446585	total: 4.77s	remaining: 3.98s
545:	learn: 3.6391582	total: 4.77s	remaining: 3.96s
546:	learn: 3.6337565	total: 4.77s	remaining: 3.95s
547:	learn: 3.6256847	total: 4.77s	remaining: 3.93s
548:	learn: 3.6194510	total: 4.77s	remaining: 3.92s
549:	learn: 3.6141614	total: 4.77s	remaining: 3.9s
550:	learn: 3.6097928	total: 4.77s	remaining: 3.89s
551:	learn: 3.6054361	total: 4.78s	remaining: 3.88s
552:	learn: 3.5980671	total: 4.78s	remaining: 3.86s
553:	learn: 3.5977340	total: 4.78s	remaining: 3.85s
554:	learn: 3.5871205	total: 4.78s	remaining: 3.83s
555:	learn: 3.5798198	total: 4.78s	remaining: 3.82s
556:	learn: 3.5728903	total: 4.86s	remaining: 3.87s
557:	learn: 3.5682384	total: 4.86s	remaining: 3.85s
558:	learn: 3.5634876	total: 4.86s	remaining: 3.84s
559:	learn: 3.5512705	total: 4.86s	remaining: 3.82s
560:	learn: 3.5421495	total: 4.87s	remaining: 3.81s
561:	learn: 3.5369696	total: 4.87s	remaining: 3.79s
562:	learn: 3.5324724	total: 4.87s	remaining: 3.78s
563:	learn: 3.5226946	total: 4.87s	remaining: 3.77s
564:	learn: 3.5156081	total: 4.87s	remaining: 3.75s
565:	learn: 3.5091311	total: 4.87s	remaining: 3.74s
566:	learn: 3.5041061	total: 4.87s	remaining: 3.72s
567:	learn: 3.4958076	total: 4.96s	remaining: 3.77s
568:	learn: 3.4862928	total: 4.96s	remaining: 3.75s
569:	learn: 3.4794683	total: 4.96s	remaining: 3.74s
570:	learn: 3.4744782	total: 4.96s	remaining: 3.73s
571:	learn: 3.4687012	total: 4.96s	remaining: 3.71s
572:	learn: 3.4597032	total: 4.96s	remaining: 3.7s
573:	learn: 3.4516942	total: 4.96s	remaining: 3.68s
574:	learn: 3.4487146	total: 4.96s	remaining: 3.67s
575:	learn: 3.4408071	total: 4.96s	remaining: 3.65s
576:	learn: 3.4349830	total: 4.97s	remaining: 3.64s
577:	learn: 3.4296904	total: 4.97s	remaining: 3.63s
578:	learn: 3.4236812	total: 5.05s	remaining: 3.67s
579:	learn: 3.4108811	total: 5.05s	remaining: 3.66s
580:	learn: 3.4004219	total: 5.05s	remaining: 3.65s
581:	learn: 3.3973323	total: 5.05s	remaining: 3.63s
582:	learn: 3.3867294	total: 5.06s	remaining: 3.62s
583:	learn: 3.3827528	total: 5.06s	remaining: 3.6s
584:	learn: 3.3753784	total: 5.06s	remaining: 3.59s
585:	learn: 3.3710782	total: 5.06s	remaining: 3.58s
586:	learn: 3.3640198	total: 5.06s	remaining: 3.56s
587:	learn: 3.3555792	total: 5.06s	remaining: 3.55s

588:	learn: 3.3499755	total: 5.15s	remaining: 3.59s
589:	learn: 3.3418975	total: 5.15s	remaining: 3.58s
590:	learn: 3.3360498	total: 5.15s	remaining: 3.56s
591:	learn: 3.3308415	total: 5.15s	remaining: 3.55s
592:	learn: 3.3284953	total: 5.15s	remaining: 3.54s
593:	learn: 3.3223244	total: 5.15s	remaining: 3.52s
594:	learn: 3.3140731	total: 5.15s	remaining: 3.51s
595:	learn: 3.3056702	total: 5.16s	remaining: 3.5s
596:	learn: 3.2964317	total: 5.16s	remaining: 3.48s
597:	learn: 3.2886863	total: 5.16s	remaining: 3.47s
598:	learn: 3.2781407	total: 5.16s	remaining: 3.45s
599:	learn: 3.2727613	total: 5.24s	remaining: 3.5s
600:	learn: 3.2675382	total: 5.24s	remaining: 3.48s
601:	learn: 3.2627002	total: 5.25s	remaining: 3.47s
602:	learn: 3.2521927	total: 5.25s	remaining: 3.45s
603:	learn: 3.2485785	total: 5.25s	remaining: 3.44s
604:	learn: 3.2476555	total: 5.25s	remaining: 3.43s
605:	learn: 3.2446877	total: 5.25s	remaining: 3.41s
606:	learn: 3.2402441	total: 5.25s	remaining: 3.4s
607:	learn: 3.2330157	total: 5.25s	remaining: 3.39s
608:	learn: 3.2293312	total: 5.25s	remaining: 3.37s
609:	learn: 3.2240199	total: 5.33s	remaining: 3.41s
610:	learn: 3.2196722	total: 5.34s	remaining: 3.4s
611:	learn: 3.2175031	total: 5.34s	remaining: 3.38s
612:	learn: 3.2114758	total: 5.34s	remaining: 3.37s
613:	learn: 3.2035386	total: 5.34s	remaining: 3.36s
614:	learn: 3.1963390	total: 5.34s	remaining: 3.34s
615:	learn: 3.1892496	total: 5.34s	remaining: 3.33s
616:	learn: 3.1821531	total: 5.34s	remaining: 3.32s
617:	learn: 3.1818556	total: 5.35s	remaining: 3.3s
618:	learn: 3.1738523	total: 5.35s	remaining: 3.29s
619:	learn: 3.1647103	total: 5.43s	remaining: 3.33s
620:	learn: 3.1613330	total: 5.43s	remaining: 3.31s
621:	learn: 3.1570918	total: 5.43s	remaining: 3.3s
622:	learn: 3.1481887	total: 5.43s	remaining: 3.29s
623:	learn: 3.1449105	total: 5.44s	remaining: 3.27s
624:	learn: 3.1394418	total: 5.44s	remaining: 3.26s
625:	learn: 3.1348326	total: 5.44s	remaining: 3.25s
626:	learn: 3.1311805	total: 5.44s	remaining: 3.23s
627:	learn: 3.1267788	total: 5.44s	remaining: 3.22s
628:	learn: 3.1172011	total: 5.44s	remaining: 3.21s
629:	learn: 3.1055434	total: 5.53s	remaining: 3.25s
630:	learn: 3.0936695	total: 5.53s	remaining: 3.23s
631:	learn: 3.0869546	total: 5.53s	remaining: 3.22s
632:	learn: 3.0844305	total: 5.53s	remaining: 3.21s
633:	learn: 3.0807463	total: 5.53s	remaining: 3.19s
634:	learn: 3.0804840	total: 5.53s	remaining: 3.18s
635:	learn: 3.0741127	total: 5.54s	remaining: 3.17s
636:	learn: 3.0686536	total: 5.54s	remaining: 3.15s
637:	learn: 3.0617996	total: 5.54s	remaining: 3.14s
638:	learn: 3.0582216	total: 5.54s	remaining: 3.13s
639:	learn: 3.0542412	total: 5.54s	remaining: 3.12s
640:	learn: 3.0458112	total: 5.54s	remaining: 3.1s
641:	learn: 3.0439256	total: 5.62s	remaining: 3.13s
642:	learn: 3.0403006	total: 5.62s	remaining: 3.12s
643:	learn: 3.0401215	total: 5.62s	remaining: 3.11s
644:	learn: 3.0359535	total: 5.63s	remaining: 3.1s
645:	learn: 3.0324617	total: 5.63s	remaining: 3.08s
646:	learn: 3.0270865	total: 5.63s	remaining: 3.07s
647:	learn: 3.0235878	total: 5.63s	remaining: 3.06s
648:	learn: 3.0210595	total: 5.63s	remaining: 3.04s

649:	learn: 3.0169534	total: 5.63s	remaining: 3.03s
650:	learn: 3.0077574	total: 5.63s	remaining: 3.02s
651:	learn: 3.0007111	total: 5.72s	remaining: 3.05s
652:	learn: 3.0003635	total: 5.72s	remaining: 3.04s
653:	learn: 2.9948121	total: 5.72s	remaining: 3.03s
654:	learn: 2.9869214	total: 5.72s	remaining: 3.01s
655:	learn: 2.9811219	total: 5.72s	remaining: 3s
656:	learn: 2.9739130	total: 5.72s	remaining: 2.99s
657:	learn: 2.9683766	total: 5.72s	remaining: 2.98s
658:	learn: 2.9654160	total: 5.72s	remaining: 2.96s
659:	learn: 2.9615771	total: 5.73s	remaining: 2.95s
660:	learn: 2.9530276	total: 5.73s	remaining: 2.94s
661:	learn: 2.9476878	total: 5.73s	remaining: 2.92s
662:	learn: 2.9432816	total: 5.81s	remaining: 2.95s
663:	learn: 2.9368981	total: 5.81s	remaining: 2.94s
664:	learn: 2.9366143	total: 5.82s	remaining: 2.93s
665:	learn: 2.9273984	total: 5.82s	remaining: 2.92s
666:	learn: 2.9180636	total: 5.82s	remaining: 2.9s
667:	learn: 2.9091113	total: 5.82s	remaining: 2.89s
668:	learn: 2.9043562	total: 5.82s	remaining: 2.88s
669:	learn: 2.8954088	total: 5.82s	remaining: 2.87s
670:	learn: 2.8905255	total: 5.82s	remaining: 2.85s
671:	learn: 2.8834990	total: 5.82s	remaining: 2.84s
672:	learn: 2.8775750	total: 5.82s	remaining: 2.83s
673:	learn: 2.8734214	total: 5.91s	remaining: 2.86s
674:	learn: 2.8703787	total: 5.91s	remaining: 2.85s
675:	learn: 2.8647943	total: 5.91s	remaining: 2.83s
676:	learn: 2.8632680	total: 5.91s	remaining: 2.82s
677:	learn: 2.8629132	total: 5.91s	remaining: 2.81s
678:	learn: 2.8601404	total: 5.92s	remaining: 2.8s
679:	learn: 2.8535541	total: 5.92s	remaining: 2.78s
680:	learn: 2.8470864	total: 5.92s	remaining: 2.77s
681:	learn: 2.8412759	total: 5.92s	remaining: 2.76s
682:	learn: 2.8395433	total: 5.92s	remaining: 2.75s
683:	learn: 2.8333158	total: 5.92s	remaining: 2.73s
684:	learn: 2.8275008	total: 6s	remaining: 2.76s
685:	learn: 2.8240927	total: 6s	remaining: 2.75s
686:	learn: 2.8184258	total: 6.01s	remaining: 2.74s
687:	learn: 2.8135563	total: 6.01s	remaining: 2.72s
688:	learn: 2.8078105	total: 6.01s	remaining: 2.71s
689:	learn: 2.8032474	total: 6.01s	remaining: 2.7s
690:	learn: 2.7988785	total: 6.01s	remaining: 2.69s
691:	learn: 2.7929742	total: 6.01s	remaining: 2.68s
692:	learn: 2.7875233	total: 6.01s	remaining: 2.66s
693:	learn: 2.7826526	total: 6.01s	remaining: 2.65s
694:	learn: 2.7760485	total: 6.01s	remaining: 2.64s
695:	learn: 2.7720352	total: 6.1s	remaining: 2.66s
696:	learn: 2.7653703	total: 6.1s	remaining: 2.65s
697:	learn: 2.7634484	total: 6.1s	remaining: 2.64s
698:	learn: 2.7604530	total: 6.1s	remaining: 2.63s
699:	learn: 2.7591238	total: 6.11s	remaining: 2.62s
700:	learn: 2.7536062	total: 6.11s	remaining: 2.6s
701:	learn: 2.7496268	total: 6.11s	remaining: 2.59s
702:	learn: 2.7454369	total: 6.11s	remaining: 2.58s
703:	learn: 2.7381309	total: 6.11s	remaining: 2.57s
704:	learn: 2.7334050	total: 6.11s	remaining: 2.56s
705:	learn: 2.7310684	total: 6.2s	remaining: 2.58s
706:	learn: 2.7269568	total: 6.2s	remaining: 2.57s
707:	learn: 2.7239419	total: 6.2s	remaining: 2.56s
708:	learn: 2.7207312	total: 6.2s	remaining: 2.54s
709:	learn: 2.7196468	total: 6.2s	remaining: 2.53s

710:	learn: 2.7128889	total: 6.2s	remaining: 2.52s
711:	learn: 2.7057545	total: 6.2s	remaining: 2.51s
712:	learn: 2.7013704	total: 6.2s	remaining: 2.5s
713:	learn: 2.6965872	total: 6.2s	remaining: 2.48s
714:	learn: 2.6925282	total: 6.21s	remaining: 2.47s
715:	learn: 2.6885395	total: 6.21s	remaining: 2.46s
716:	learn: 2.6876018	total: 6.21s	remaining: 2.45s
717:	learn: 2.6849186	total: 6.29s	remaining: 2.47s
718:	learn: 2.6789481	total: 6.29s	remaining: 2.46s
719:	learn: 2.6754403	total: 6.29s	remaining: 2.45s
720:	learn: 2.6743286	total: 6.3s	remaining: 2.44s
721:	learn: 2.6671253	total: 6.3s	remaining: 2.42s
722:	learn: 2.6624290	total: 6.3s	remaining: 2.41s
723:	learn: 2.6523217	total: 6.3s	remaining: 2.4s
724:	learn: 2.6494191	total: 6.3s	remaining: 2.39s
725:	learn: 2.6435006	total: 6.3s	remaining: 2.38s
726:	learn: 2.6389433	total: 6.3s	remaining: 2.37s
727:	learn: 2.6352222	total: 6.3s	remaining: 2.35s
728:	learn: 2.6327591	total: 6.38s	remaining: 2.37s
729:	learn: 2.6243546	total: 6.39s	remaining: 2.36s
730:	learn: 2.6220270	total: 6.39s	remaining: 2.35s
731:	learn: 2.6127666	total: 6.39s	remaining: 2.34s
732:	learn: 2.6117493	total: 6.39s	remaining: 2.33s
733:	learn: 2.6035032	total: 6.39s	remaining: 2.32s
734:	learn: 2.5959533	total: 6.39s	remaining: 2.3s
735:	learn: 2.5892343	total: 6.39s	remaining: 2.29s
736:	learn: 2.5874215	total: 6.39s	remaining: 2.28s
737:	learn: 2.5817502	total: 6.4s	remaining: 2.27s
738:	learn: 2.5773291	total: 6.4s	remaining: 2.26s
739:	learn: 2.5696210	total: 6.48s	remaining: 2.28s
740:	learn: 2.5678456	total: 6.48s	remaining: 2.27s
741:	learn: 2.5624196	total: 6.48s	remaining: 2.25s
742:	learn: 2.5608773	total: 6.49s	remaining: 2.24s
743:	learn: 2.5557143	total: 6.49s	remaining: 2.23s
744:	learn: 2.5522800	total: 6.49s	remaining: 2.22s
745:	learn: 2.5483292	total: 6.49s	remaining: 2.21s
746:	learn: 2.5442813	total: 6.49s	remaining: 2.2s
747:	learn: 2.5440155	total: 6.49s	remaining: 2.19s
748:	learn: 2.5392113	total: 6.58s	remaining: 2.2s
749:	learn: 2.5358586	total: 6.58s	remaining: 2.19s
750:	learn: 2.5335955	total: 6.58s	remaining: 2.18s
751:	learn: 2.5284408	total: 6.58s	remaining: 2.17s
752:	learn: 2.5236622	total: 6.58s	remaining: 2.16s
753:	learn: 2.5224512	total: 6.58s	remaining: 2.15s
754:	learn: 2.5188287	total: 6.58s	remaining: 2.14s
755:	learn: 2.5119197	total: 6.59s	remaining: 2.13s
756:	learn: 2.5076724	total: 6.59s	remaining: 2.11s
757:	learn: 2.4995871	total: 6.59s	remaining: 2.1s
758:	learn: 2.4961926	total: 6.59s	remaining: 2.09s
759:	learn: 2.4944255	total: 6.59s	remaining: 2.08s
760:	learn: 2.4913568	total: 6.67s	remaining: 2.1s
761:	learn: 2.4853498	total: 6.67s	remaining: 2.08s
762:	learn: 2.4806866	total: 6.67s	remaining: 2.07s
763:	learn: 2.4751104	total: 6.68s	remaining: 2.06s
764:	learn: 2.4749009	total: 6.68s	remaining: 2.05s
765:	learn: 2.4699061	total: 6.68s	remaining: 2.04s
766:	learn: 2.4646303	total: 6.68s	remaining: 2.03s
767:	learn: 2.4569816	total: 6.68s	remaining: 2.02s
768:	learn: 2.4546125	total: 6.68s	remaining: 2.01s
769:	learn: 2.4512701	total: 6.68s	remaining: 2s
770:	learn: 2.4448020	total: 6.68s	remaining: 1.99s

771:	learn: 2.4420124	total: 6.77s	remaining: 2s
772:	learn: 2.4382344	total: 6.77s	remaining: 1.99s
773:	learn: 2.4341812	total: 6.77s	remaining: 1.98s
774:	learn: 2.4313361	total: 6.77s	remaining: 1.97s
775:	learn: 2.4250080	total: 6.77s	remaining: 1.96s
776:	learn: 2.4200830	total: 6.78s	remaining: 1.94s
777:	learn: 2.4174523	total: 6.78s	remaining: 1.93s
778:	learn: 2.4103016	total: 6.78s	remaining: 1.92s
779:	learn: 2.4076264	total: 6.78s	remaining: 1.91s
780:	learn: 2.4016600	total: 6.78s	remaining: 1.9s
781:	learn: 2.3971970	total: 6.86s	remaining: 1.91s
782:	learn: 2.3945321	total: 6.86s	remaining: 1.9s
783:	learn: 2.3859575	total: 6.87s	remaining: 1.89s
784:	learn: 2.3798961	total: 6.87s	remaining: 1.88s
785:	learn: 2.3767600	total: 6.87s	remaining: 1.87s
786:	learn: 2.3757762	total: 6.87s	remaining: 1.86s
787:	learn: 2.3708042	total: 6.87s	remaining: 1.85s
788:	learn: 2.3688238	total: 6.87s	remaining: 1.84s
789:	learn: 2.3658121	total: 6.87s	remaining: 1.83s
790:	learn: 2.3627575	total: 6.87s	remaining: 1.82s
791:	learn: 2.3560414	total: 6.88s	remaining: 1.8s
792:	learn: 2.3533202	total: 6.96s	remaining: 1.82s
793:	learn: 2.3490626	total: 6.96s	remaining: 1.8s
794:	learn: 2.3416199	total: 6.96s	remaining: 1.79s
795:	learn: 2.3375785	total: 6.96s	remaining: 1.78s
796:	learn: 2.3360485	total: 6.96s	remaining: 1.77s
797:	learn: 2.3335245	total: 6.97s	remaining: 1.76s
798:	learn: 2.3283013	total: 6.97s	remaining: 1.75s
799:	learn: 2.3226452	total: 6.97s	remaining: 1.74s
800:	learn: 2.3177254	total: 6.97s	remaining: 1.73s
801:	learn: 2.3101395	total: 6.97s	remaining: 1.72s
802:	learn: 2.3074051	total: 6.97s	remaining: 1.71s
803:	learn: 2.3048003	total: 6.97s	remaining: 1.7s
804:	learn: 2.3021173	total: 7.05s	remaining: 1.71s
805:	learn: 2.2968753	total: 7.05s	remaining: 1.7s
806:	learn: 2.2879764	total: 7.06s	remaining: 1.69s
807:	learn: 2.2849522	total: 7.06s	remaining: 1.68s
808:	learn: 2.2805652	total: 7.06s	remaining: 1.67s
809:	learn: 2.2782213	total: 7.06s	remaining: 1.66s
810:	learn: 2.2751890	total: 7.06s	remaining: 1.65s
811:	learn: 2.2690960	total: 7.06s	remaining: 1.64s
812:	learn: 2.2653258	total: 7.07s	remaining: 1.63s
813:	learn: 2.2601984	total: 7.15s	remaining: 1.63s
814:	learn: 2.2579790	total: 7.15s	remaining: 1.62s
815:	learn: 2.2512492	total: 7.15s	remaining: 1.61s
816:	learn: 2.2504144	total: 7.15s	remaining: 1.6s
817:	learn: 2.2460474	total: 7.16s	remaining: 1.59s
818:	learn: 2.2399649	total: 7.16s	remaining: 1.58s
819:	learn: 2.2389626	total: 7.16s	remaining: 1.57s
820:	learn: 2.2380755	total: 7.16s	remaining: 1.56s
821:	learn: 2.2372900	total: 7.16s	remaining: 1.55s
822:	learn: 2.2339059	total: 7.16s	remaining: 1.54s
823:	learn: 2.2294770	total: 7.16s	remaining: 1.53s
824:	learn: 2.2276482	total: 7.25s	remaining: 1.54s
825:	learn: 2.2237831	total: 7.25s	remaining: 1.53s
826:	learn: 2.2130592	total: 7.25s	remaining: 1.52s
827:	learn: 2.2090398	total: 7.25s	remaining: 1.5s
828:	learn: 2.2082541	total: 7.25s	remaining: 1.5s
829:	learn: 2.2018742	total: 7.25s	remaining: 1.49s
830:	learn: 2.1973886	total: 7.25s	remaining: 1.48s
831:	learn: 2.1941633	total: 7.26s	remaining: 1.47s

832:	learn: 2.1915364	total: 7.26s	remaining: 1.46s
833:	learn: 2.1897767	total: 7.26s	remaining: 1.44s
834:	learn: 2.1863332	total: 7.34s	remaining: 1.45s
835:	learn: 2.1824793	total: 7.34s	remaining: 1.44s
836:	learn: 2.1774815	total: 7.34s	remaining: 1.43s
837:	learn: 2.1764069	total: 7.34s	remaining: 1.42s
838:	learn: 2.1704649	total: 7.35s	remaining: 1.41s
839:	learn: 2.1661731	total: 7.35s	remaining: 1.4s
840:	learn: 2.1633220	total: 7.35s	remaining: 1.39s
841:	learn: 2.1597854	total: 7.35s	remaining: 1.38s
842:	learn: 2.1576573	total: 7.35s	remaining: 1.37s
843:	learn: 2.1563919	total: 7.35s	remaining: 1.36s
844:	learn: 2.1559227	total: 7.44s	remaining: 1.36s
845:	learn: 2.1538640	total: 7.44s	remaining: 1.35s
846:	learn: 2.1510340	total: 7.44s	remaining: 1.34s
847:	learn: 2.1476527	total: 7.44s	remaining: 1.33s
848:	learn: 2.1449156	total: 7.44s	remaining: 1.32s
849:	learn: 2.1426068	total: 7.44s	remaining: 1.31s
850:	learn: 2.1383540	total: 7.44s	remaining: 1.3s
851:	learn: 2.1356553	total: 7.45s	remaining: 1.29s
852:	learn: 2.1323528	total: 7.45s	remaining: 1.28s
853:	learn: 2.1276554	total: 7.45s	remaining: 1.27s
854:	learn: 2.1199896	total: 7.53s	remaining: 1.28s
855:	learn: 2.1156443	total: 7.53s	remaining: 1.27s
856:	learn: 2.1145824	total: 7.54s	remaining: 1.26s
857:	learn: 2.1095888	total: 7.54s	remaining: 1.25s
858:	learn: 2.1075512	total: 7.54s	remaining: 1.24s
859:	learn: 2.1045474	total: 7.54s	remaining: 1.23s
860:	learn: 2.1027390	total: 7.54s	remaining: 1.22s
861:	learn: 2.1003014	total: 7.54s	remaining: 1.21s
862:	learn: 2.0969881	total: 7.54s	remaining: 1.2s
863:	learn: 2.0932026	total: 7.54s	remaining: 1.19s
864:	learn: 2.0900842	total: 7.54s	remaining: 1.18s
865:	learn: 2.0884439	total: 7.55s	remaining: 1.17s
866:	learn: 2.0860749	total: 7.55s	remaining: 1.16s
867:	learn: 2.0840913	total: 7.63s	remaining: 1.16s
868:	learn: 2.0818909	total: 7.63s	remaining: 1.15s
869:	learn: 2.0787714	total: 7.63s	remaining: 1.14s
870:	learn: 2.0762982	total: 7.63s	remaining: 1.13s
871:	learn: 2.0752876	total: 7.63s	remaining: 1.12s
872:	learn: 2.0702776	total: 7.63s	remaining: 1.11s
873:	learn: 2.0682639	total: 7.63s	remaining: 1.1s
874:	learn: 2.0594572	total: 7.64s	remaining: 1.09s
875:	learn: 2.0557415	total: 7.64s	remaining: 1.08s
876:	learn: 2.0538695	total: 7.64s	remaining: 1.07s
877:	learn: 2.0475658	total: 7.64s	remaining: 1.06s
878:	learn: 2.0447700	total: 7.72s	remaining: 1.06s
879:	learn: 2.0415118	total: 7.72s	remaining: 1.05s
880:	learn: 2.0377094	total: 7.73s	remaining: 1.04s
881:	learn: 2.0348945	total: 7.73s	remaining: 1.03s
882:	learn: 2.0316705	total: 7.73s	remaining: 1.02s
883:	learn: 2.0289230	total: 7.73s	remaining: 1.01s
884:	learn: 2.0271563	total: 7.73s	remaining: 1s
885:	learn: 2.0269885	total: 7.73s	remaining: 995ms
886:	learn: 2.0257784	total: 7.73s	remaining: 985ms
887:	learn: 2.0234080	total: 7.82s	remaining: 986ms
888:	learn: 2.0218550	total: 7.82s	remaining: 977ms
889:	learn: 2.0180091	total: 7.82s	remaining: 967ms
890:	learn: 2.0174354	total: 7.82s	remaining: 957ms
891:	learn: 2.0124250	total: 7.82s	remaining: 947ms
892:	learn: 2.0094254	total: 7.83s	remaining: 938ms

893:	learn: 2.0044874	total: 7.83s	remaining: 928ms
894:	learn: 2.0011998	total: 7.83s	remaining: 918ms
895:	learn: 2.0010418	total: 7.83s	remaining: 909ms
896:	learn: 2.0007381	total: 7.83s	remaining: 899ms
897:	learn: 1.9948683	total: 7.83s	remaining: 889ms
898:	learn: 1.9912877	total: 7.92s	remaining: 889ms
899:	learn: 1.9856887	total: 7.92s	remaining: 880ms
900:	learn: 1.9834818	total: 7.92s	remaining: 870ms
901:	learn: 1.9779632	total: 7.92s	remaining: 861ms
902:	learn: 1.9713445	total: 7.92s	remaining: 851ms
903:	learn: 1.9667061	total: 7.92s	remaining: 841ms
904:	learn: 1.9623170	total: 7.92s	remaining: 832ms
905:	learn: 1.9600864	total: 7.93s	remaining: 822ms
906:	learn: 1.9563479	total: 7.93s	remaining: 813ms
907:	learn: 1.9535918	total: 7.93s	remaining: 803ms
908:	learn: 1.9482723	total: 7.93s	remaining: 794ms
909:	learn: 1.9457339	total: 7.93s	remaining: 784ms
910:	learn: 1.9438667	total: 8.01s	remaining: 783ms
911:	learn: 1.9412058	total: 8.01s	remaining: 773ms
912:	learn: 1.9371336	total: 8.01s	remaining: 764ms
913:	learn: 1.9354843	total: 8.01s	remaining: 754ms
914:	learn: 1.9334802	total: 8.02s	remaining: 745ms
915:	learn: 1.9308359	total: 8.02s	remaining: 735ms
916:	learn: 1.9247493	total: 8.02s	remaining: 726ms
917:	learn: 1.9233827	total: 8.02s	remaining: 716ms
918:	learn: 1.9182356	total: 8.02s	remaining: 707ms
919:	learn: 1.9140972	total: 8.02s	remaining: 698ms
920:	learn: 1.9088479	total: 8.02s	remaining: 688ms
921:	learn: 1.9067760	total: 8.02s	remaining: 679ms
922:	learn: 1.9066149	total: 8.11s	remaining: 676ms
923:	learn: 1.9022883	total: 8.11s	remaining: 667ms
924:	learn: 1.9021241	total: 8.11s	remaining: 658ms
925:	learn: 1.8984486	total: 8.11s	remaining: 648ms
926:	learn: 1.8969016	total: 8.11s	remaining: 639ms
927:	learn: 1.8948046	total: 8.12s	remaining: 630ms
928:	learn: 1.8903571	total: 8.12s	remaining: 620ms
929:	learn: 1.8892407	total: 8.12s	remaining: 611ms
930:	learn: 1.8881270	total: 8.12s	remaining: 602ms
931:	learn: 1.8845604	total: 8.12s	remaining: 593ms
932:	learn: 1.8805769	total: 8.2s	remaining: 589ms
933:	learn: 1.8764196	total: 8.2s	remaining: 579ms
934:	learn: 1.8707960	total: 8.2s	remaining: 570ms
935:	learn: 1.8694820	total: 8.2s	remaining: 561ms
936:	learn: 1.8661234	total: 8.2s	remaining: 552ms
937:	learn: 1.8636380	total: 8.2s	remaining: 542ms
938:	learn: 1.8603398	total: 8.21s	remaining: 533ms
939:	learn: 1.8591685	total: 8.21s	remaining: 524ms
940:	learn: 1.8572367	total: 8.21s	remaining: 515ms
941:	learn: 1.8554717	total: 8.21s	remaining: 505ms
942:	learn: 1.8536639	total: 8.21s	remaining: 496ms
943:	learn: 1.8467747	total: 8.21s	remaining: 487ms
944:	learn: 1.8434630	total: 8.29s	remaining: 483ms
945:	learn: 1.8372459	total: 8.29s	remaining: 473ms
946:	learn: 1.8323127	total: 8.3s	remaining: 464ms
947:	learn: 1.8283884	total: 8.3s	remaining: 455ms
948:	learn: 1.8241082	total: 8.3s	remaining: 446ms
949:	learn: 1.8214601	total: 8.3s	remaining: 437ms
950:	learn: 1.8200878	total: 8.3s	remaining: 428ms
951:	learn: 1.8167030	total: 8.3s	remaining: 419ms
952:	learn: 1.8150784	total: 8.3s	remaining: 410ms
953:	learn: 1.8089195	total: 8.3s	remaining: 400ms

954:	learn: 1.8060336	total: 8.39s	remaining: 395ms
955:	learn: 1.8042827	total: 8.39s	remaining: 386ms
956:	learn: 1.7996032	total: 8.39s	remaining: 377ms
957:	learn: 1.7974335	total: 8.39s	remaining: 368ms
958:	learn: 1.7957366	total: 8.39s	remaining: 359ms
959:	learn: 1.7934643	total: 8.39s	remaining: 350ms
960:	learn: 1.7911552	total: 8.4s	remaining: 341ms
961:	learn: 1.7894454	total: 8.4s	remaining: 332ms
962:	learn: 1.7876730	total: 8.4s	remaining: 323ms
963:	learn: 1.7857860	total: 8.4s	remaining: 314ms
964:	learn: 1.7851706	total: 8.4s	remaining: 305ms
965:	learn: 1.7839260	total: 8.4s	remaining: 296ms
966:	learn: 1.7808542	total: 8.48s	remaining: 290ms
967:	learn: 1.7774613	total: 8.49s	remaining: 281ms
968:	learn: 1.7772120	total: 8.49s	remaining: 272ms
969:	learn: 1.7747114	total: 8.49s	remaining: 263ms
970:	learn: 1.7696480	total: 8.49s	remaining: 254ms
971:	learn: 1.7660149	total: 8.49s	remaining: 245ms
972:	learn: 1.7641293	total: 8.49s	remaining: 236ms
973:	learn: 1.7616148	total: 8.49s	remaining: 227ms
974:	learn: 1.7614696	total: 8.49s	remaining: 218ms
975:	learn: 1.7535334	total: 8.5s	remaining: 209ms
976:	learn: 1.7480013	total: 8.5s	remaining: 200ms
977:	learn: 1.7464941	total: 8.5s	remaining: 191ms
978:	learn: 1.7416557	total: 8.58s	remaining: 184ms
979:	learn: 1.7398428	total: 8.58s	remaining: 175ms
980:	learn: 1.7379974	total: 8.58s	remaining: 166ms
981:	learn: 1.7343759	total: 8.58s	remaining: 157ms
982:	learn: 1.7315510	total: 8.59s	remaining: 148ms
983:	learn: 1.7250896	total: 8.59s	remaining: 140ms
984:	learn: 1.7222959	total: 8.59s	remaining: 131ms
985:	learn: 1.7210153	total: 8.59s	remaining: 122ms
986:	learn: 1.7187930	total: 8.59s	remaining: 113ms
987:	learn: 1.7157438	total: 8.59s	remaining: 104ms
988:	learn: 1.7145411	total: 8.68s	remaining: 96.5ms
989:	learn: 1.7132614	total: 8.68s	remaining: 87.6ms
990:	learn: 1.7130978	total: 8.68s	remaining: 78.8ms
991:	learn: 1.7064949	total: 8.68s	remaining: 70ms
992:	learn: 1.7051930	total: 8.68s	remaining: 61.2ms
993:	learn: 1.6996144	total: 8.68s	remaining: 52.4ms
994:	learn: 1.6937597	total: 8.68s	remaining: 43.6ms
995:	learn: 1.6915163	total: 8.69s	remaining: 34.9ms
996:	learn: 1.6894539	total: 8.69s	remaining: 26.1ms
997:	learn: 1.6877294	total: 8.69s	remaining: 17.4ms
998:	learn: 1.6868654	total: 8.77s	remaining: 8.78ms
999:	learn: 1.6858865	total: 8.77s	remaining: 0us
0:	learn: 20.2366538	total: 1.33ms	remaining: 1.33s
1:	learn: 20.0225254	total: 3.03ms	remaining: 1.51s
2:	learn: 19.8173599	total: 4.12ms	remaining: 1.37s
3:	learn: 19.6468730	total: 5.26ms	remaining: 1.31s
4:	learn: 19.4529742	total: 6.33ms	remaining: 1.26s
5:	learn: 19.2749201	total: 8.2ms	remaining: 1.36s
6:	learn: 19.0847929	total: 9.86ms	remaining: 1.4s
7:	learn: 18.8838404	total: 11.8ms	remaining: 1.46s
8:	learn: 18.7258580	total: 22.1ms	remaining: 2.43s
9:	learn: 18.5715467	total: 23.3ms	remaining: 2.31s
10:	learn: 18.3728457	total: 24.3ms	remaining: 2.19s
11:	learn: 18.1963729	total: 25.6ms	remaining: 2.11s
12:	learn: 18.0474663	total: 26.7ms	remaining: 2.03s
13:	learn: 17.9043116	total: 28.1ms	remaining: 1.98s
14:	learn: 17.7672016	total: 29.3ms	remaining: 1.93s

15:	learn: 17.3618700	total: 30.5ms	remaining: 1.87s
16:	learn: 17.2464232	total: 31.7ms	remaining: 1.83s
17:	learn: 17.1267193	total: 32.8ms	remaining: 1.79s
18:	learn: 17.0074063	total: 33.9ms	remaining: 1.75s
19:	learn: 16.6072592	total: 34.9ms	remaining: 1.71s
20:	learn: 16.4877576	total: 117ms	remaining: 5.45s
21:	learn: 16.2027519	total: 118ms	remaining: 5.26s
22:	learn: 16.0949920	total: 119ms	remaining: 5.07s
23:	learn: 15.9858050	total: 120ms	remaining: 4.9s
24:	learn: 15.7049613	total: 122ms	remaining: 4.74s
25:	learn: 15.6094620	total: 123ms	remaining: 4.59s
26:	learn: 15.5322306	total: 124ms	remaining: 4.46s
27:	learn: 15.2036861	total: 125ms	remaining: 4.33s
28:	learn: 15.0062702	total: 126ms	remaining: 4.22s
29:	learn: 14.9342861	total: 127ms	remaining: 4.11s
30:	learn: 14.8610638	total: 128ms	remaining: 4s
31:	learn: 14.6115849	total: 129ms	remaining: 3.91s
32:	learn: 14.3908159	total: 214ms	remaining: 6.26s
33:	learn: 14.3292156	total: 215ms	remaining: 6.11s
34:	learn: 14.1777042	total: 216ms	remaining: 5.96s
35:	learn: 14.1157854	total: 217ms	remaining: 5.82s
36:	learn: 14.0505459	total: 219ms	remaining: 5.69s
37:	learn: 13.7987101	total: 220ms	remaining: 5.56s
38:	learn: 13.7509997	total: 221ms	remaining: 5.44s
39:	learn: 13.7004404	total: 222ms	remaining: 5.33s
40:	learn: 13.6565551	total: 223ms	remaining: 5.21s
41:	learn: 13.5913163	total: 224ms	remaining: 5.11s
42:	learn: 13.5348211	total: 309ms	remaining: 6.87s
43:	learn: 13.4181454	total: 310ms	remaining: 6.74s
44:	learn: 13.3711248	total: 311ms	remaining: 6.6s
45:	learn: 13.1625183	total: 312ms	remaining: 6.48s
46:	learn: 13.0954652	total: 313ms	remaining: 6.35s
47:	learn: 13.0557701	total: 314ms	remaining: 6.24s
48:	learn: 13.0230983	total: 316ms	remaining: 6.12s
49:	learn: 12.8624150	total: 317ms	remaining: 6.01s
50:	learn: 12.7211306	total: 318ms	remaining: 5.91s
51:	learn: 12.6898573	total: 319ms	remaining: 5.81s
52:	learn: 12.5419169	total: 320ms	remaining: 5.72s
53:	learn: 12.5104795	total: 326ms	remaining: 5.72s
54:	learn: 12.4378719	total: 405ms	remaining: 6.96s
55:	learn: 12.3661787	total: 407ms	remaining: 6.87s
56:	learn: 12.3409127	total: 409ms	remaining: 6.76s
57:	learn: 12.3179984	total: 411ms	remaining: 6.67s
58:	learn: 12.2246008	total: 412ms	remaining: 6.57s
59:	learn: 12.1149859	total: 413ms	remaining: 6.48s
60:	learn: 12.0104657	total: 415ms	remaining: 6.38s
61:	learn: 11.9866913	total: 416ms	remaining: 6.29s
62:	learn: 11.9292449	total: 419ms	remaining: 6.24s
63:	learn: 11.9072554	total: 500ms	remaining: 7.3s
64:	learn: 11.8865526	total: 501ms	remaining: 7.21s
65:	learn: 11.8553439	total: 502ms	remaining: 7.1s
66:	learn: 11.8314693	total: 503ms	remaining: 7s
67:	learn: 11.8107975	total: 504ms	remaining: 6.91s
68:	learn: 11.7189708	total: 505ms	remaining: 6.82s
69:	learn: 11.6996960	total: 507ms	remaining: 6.73s
70:	learn: 11.6752747	total: 508ms	remaining: 6.64s
71:	learn: 11.5864280	total: 509ms	remaining: 6.56s
72:	learn: 11.4952719	total: 511ms	remaining: 6.48s
73:	learn: 11.4627507	total: 512ms	remaining: 6.4s
74:	learn: 11.3734594	total: 595ms	remaining: 7.34s
75:	learn: 11.2900034	total: 596ms	remaining: 7.25s

76:	learn: 11.2738119	total: 598ms	remaining: 7.16s
77:	learn: 11.2578253	total: 599ms	remaining: 7.08s
78:	learn: 11.2446039	total: 601ms	remaining: 7.01s
79:	learn: 11.1633216	total: 602ms	remaining: 6.93s
80:	learn: 11.1486684	total: 604ms	remaining: 6.85s
81:	learn: 11.1352541	total: 605ms	remaining: 6.77s
82:	learn: 11.1192750	total: 606ms	remaining: 6.7s
83:	learn: 11.1077358	total: 607ms	remaining: 6.62s
84:	learn: 11.0647478	total: 608ms	remaining: 6.55s
85:	learn: 10.9814485	total: 610ms	remaining: 6.48s
86:	learn: 10.9562117	total: 691ms	remaining: 7.25s
87:	learn: 10.9390950	total: 692ms	remaining: 7.17s
88:	learn: 10.8604118	total: 693ms	remaining: 7.1s
89:	learn: 10.8507039	total: 695ms	remaining: 7.02s
90:	learn: 10.8201685	total: 696ms	remaining: 6.95s
91:	learn: 10.7563036	total: 697ms	remaining: 6.88s
92:	learn: 10.6851029	total: 698ms	remaining: 6.81s
93:	learn: 10.6674067	total: 699ms	remaining: 6.74s
94:	learn: 10.6505485	total: 700ms	remaining: 6.67s
95:	learn: 10.5963932	total: 702ms	remaining: 6.61s
96:	learn: 10.5471648	total: 786ms	remaining: 7.31s
97:	learn: 10.4999960	total: 787ms	remaining: 7.24s
98:	learn: 10.4920004	total: 788ms	remaining: 7.17s
99:	learn: 10.3723724	total: 789ms	remaining: 7.1s
100:	learn: 10.3304956	total: 791ms	remaining: 7.04s
101:	learn: 10.2592040	total: 792ms	remaining: 6.97s
102:	learn: 10.2525500	total: 794ms	remaining: 6.92s
103:	learn: 10.2025512	total: 796ms	remaining: 6.86s
104:	learn: 10.1668173	total: 797ms	remaining: 6.79s
105:	learn: 10.1610848	total: 798ms	remaining: 6.73s
106:	learn: 10.0919786	total: 881ms	remaining: 7.36s
107:	learn: 10.0329725	total: 883ms	remaining: 7.29s
108:	learn: 10.0140497	total: 884ms	remaining: 7.22s
109:	learn: 9.9776750	total: 885ms	remaining: 7.16s
110:	learn: 9.9212241	total: 886ms	remaining: 7.1s
111:	learn: 9.8661390	total: 887ms	remaining: 7.04s
112:	learn: 9.8293602	total: 889ms	remaining: 6.97s
113:	learn: 9.7879306	total: 890ms	remaining: 6.91s
114:	learn: 9.7430571	total: 891ms	remaining: 6.85s
115:	learn: 9.7192183	total: 897ms	remaining: 6.84s
116:	learn: 9.6806387	total: 977ms	remaining: 7.37s
117:	learn: 9.6616302	total: 978ms	remaining: 7.31s
118:	learn: 9.6219110	total: 979ms	remaining: 7.25s
119:	learn: 9.5944179	total: 980ms	remaining: 7.19s
120:	learn: 9.5570270	total: 982ms	remaining: 7.13s
121:	learn: 9.5323467	total: 983ms	remaining: 7.08s
122:	learn: 9.4976091	total: 984ms	remaining: 7.02s
123:	learn: 9.4464250	total: 985ms	remaining: 6.96s
124:	learn: 9.4411217	total: 987ms	remaining: 6.91s
125:	learn: 9.4161164	total: 988ms	remaining: 6.85s
126:	learn: 9.3906702	total: 989ms	remaining: 6.8s
127:	learn: 9.3617058	total: 990ms	remaining: 6.75s
128:	learn: 9.3572322	total: 1.07s	remaining: 7.23s
129:	learn: 9.3414314	total: 1.07s	remaining: 7.19s
130:	learn: 9.3158709	total: 1.07s	remaining: 7.13s
131:	learn: 9.2947012	total: 1.08s	remaining: 7.08s
132:	learn: 9.2350155	total: 1.08s	remaining: 7.02s
133:	learn: 9.1722289	total: 1.08s	remaining: 6.97s
134:	learn: 9.1495201	total: 1.08s	remaining: 6.92s
135:	learn: 9.1146569	total: 1.08s	remaining: 6.87s
136:	learn: 9.1093996	total: 1.08s	remaining: 6.82s

137:	learn: 9.0790213	total: 1.08s	remaining: 6.77s
138:	learn: 9.0744455	total: 1.08s	remaining: 6.72s
139:	learn: 9.0445861	total: 1.17s	remaining: 7.17s
140:	learn: 9.0127561	total: 1.17s	remaining: 7.12s
141:	learn: 8.9916633	total: 1.17s	remaining: 7.07s
142:	learn: 8.9690025	total: 1.17s	remaining: 7.01s
143:	learn: 8.9468511	total: 1.17s	remaining: 6.96s
144:	learn: 8.9288620	total: 1.17s	remaining: 6.92s
145:	learn: 8.9071606	total: 1.17s	remaining: 6.87s
146:	learn: 8.8880998	total: 1.17s	remaining: 6.82s
147:	learn: 8.8606113	total: 1.18s	remaining: 6.78s
148:	learn: 8.8418115	total: 1.18s	remaining: 6.73s
149:	learn: 8.8155296	total: 1.26s	remaining: 7.16s
150:	learn: 8.7930862	total: 1.26s	remaining: 7.11s
151:	learn: 8.7697252	total: 1.26s	remaining: 7.06s
152:	learn: 8.7569332	total: 1.27s	remaining: 7.01s
153:	learn: 8.7373308	total: 1.27s	remaining: 6.96s
154:	learn: 8.6950300	total: 1.27s	remaining: 6.92s
155:	learn: 8.6909466	total: 1.27s	remaining: 6.87s
156:	learn: 8.6731969	total: 1.27s	remaining: 6.83s
157:	learn: 8.6247685	total: 1.27s	remaining: 6.78s
158:	learn: 8.6025891	total: 1.27s	remaining: 6.74s
159:	learn: 8.5863856	total: 1.28s	remaining: 6.72s
160:	learn: 8.5816798	total: 1.36s	remaining: 7.08s
161:	learn: 8.5397696	total: 1.36s	remaining: 7.03s
162:	learn: 8.5215558	total: 1.36s	remaining: 6.99s
163:	learn: 8.5070596	total: 1.36s	remaining: 6.94s
164:	learn: 8.4926141	total: 1.36s	remaining: 6.9s
165:	learn: 8.4729390	total: 1.36s	remaining: 6.85s
166:	learn: 8.4539799	total: 1.36s	remaining: 6.81s
167:	learn: 8.4475873	total: 1.37s	remaining: 6.77s
168:	learn: 8.4180175	total: 1.37s	remaining: 6.72s
169:	learn: 8.3950942	total: 1.37s	remaining: 6.71s
170:	learn: 8.3822483	total: 1.45s	remaining: 7.05s
171:	learn: 8.3784063	total: 1.46s	remaining: 7s
172:	learn: 8.3685073	total: 1.46s	remaining: 6.96s
173:	learn: 8.3380247	total: 1.46s	remaining: 6.92s
174:	learn: 8.3270872	total: 1.46s	remaining: 6.88s
175:	learn: 8.3180875	total: 1.46s	remaining: 6.83s
176:	learn: 8.3026602	total: 1.46s	remaining: 6.79s
177:	learn: 8.2993887	total: 1.46s	remaining: 6.75s
178:	learn: 8.2737988	total: 1.46s	remaining: 6.71s
179:	learn: 8.2499366	total: 1.46s	remaining: 6.67s
180:	learn: 8.2323683	total: 1.47s	remaining: 6.63s
181:	learn: 8.1943035	total: 1.47s	remaining: 6.62s
182:	learn: 8.1612621	total: 1.55s	remaining: 6.92s
183:	learn: 8.1239942	total: 1.55s	remaining: 6.88s
184:	learn: 8.1106714	total: 1.55s	remaining: 6.84s
185:	learn: 8.0848510	total: 1.55s	remaining: 6.8s
186:	learn: 8.0570724	total: 1.55s	remaining: 6.76s
187:	learn: 8.0315673	total: 1.55s	remaining: 6.72s
188:	learn: 8.0279342	total: 1.56s	remaining: 6.68s
189:	learn: 7.9998102	total: 1.56s	remaining: 6.64s
190:	learn: 7.9681165	total: 1.56s	remaining: 6.6s
191:	learn: 7.9655892	total: 1.56s	remaining: 6.57s
192:	learn: 7.9549842	total: 1.56s	remaining: 6.53s
193:	learn: 7.9518485	total: 1.65s	remaining: 6.85s
194:	learn: 7.9170854	total: 1.65s	remaining: 6.81s
195:	learn: 7.9145546	total: 1.65s	remaining: 6.77s
196:	learn: 7.8956712	total: 1.65s	remaining: 6.74s
197:	learn: 7.8912171	total: 1.65s	remaining: 6.7s

198:	learn: 7.8784532	total: 1.66s	remaining: 6.66s
199:	learn: 7.8376696	total: 1.66s	remaining: 6.63s
200:	learn: 7.8228342	total: 1.66s	remaining: 6.59s
201:	learn: 7.7982275	total: 1.74s	remaining: 6.88s
202:	learn: 7.7850380	total: 1.74s	remaining: 6.84s
203:	learn: 7.7695332	total: 1.74s	remaining: 6.8s
204:	learn: 7.7592967	total: 1.75s	remaining: 6.77s
205:	learn: 7.7330290	total: 1.75s	remaining: 6.73s
206:	learn: 7.7105852	total: 1.75s	remaining: 6.7s
207:	learn: 7.6961429	total: 1.75s	remaining: 6.66s
208:	learn: 7.6605375	total: 1.75s	remaining: 6.62s
209:	learn: 7.6311431	total: 1.75s	remaining: 6.59s
210:	learn: 7.6137556	total: 1.75s	remaining: 6.55s
211:	learn: 7.6109665	total: 1.75s	remaining: 6.52s
212:	learn: 7.5695957	total: 1.75s	remaining: 6.48s
213:	learn: 7.5544821	total: 1.75s	remaining: 6.45s
214:	learn: 7.5392682	total: 1.76s	remaining: 6.41s
215:	learn: 7.5179733	total: 1.84s	remaining: 6.67s
216:	learn: 7.4908043	total: 1.84s	remaining: 6.63s
217:	learn: 7.4816350	total: 1.84s	remaining: 6.6s
218:	learn: 7.4789176	total: 1.84s	remaining: 6.57s
219:	learn: 7.4628741	total: 1.84s	remaining: 6.54s
220:	learn: 7.4172151	total: 1.84s	remaining: 6.51s
221:	learn: 7.4036497	total: 1.85s	remaining: 6.47s
222:	learn: 7.3744615	total: 1.85s	remaining: 6.44s
223:	learn: 7.3624788	total: 1.85s	remaining: 6.41s
224:	learn: 7.3538243	total: 1.93s	remaining: 6.66s
225:	learn: 7.3517896	total: 1.93s	remaining: 6.62s
226:	learn: 7.3408931	total: 1.94s	remaining: 6.59s
227:	learn: 7.3241053	total: 1.94s	remaining: 6.56s
228:	learn: 7.3024972	total: 1.94s	remaining: 6.52s
229:	learn: 7.2919119	total: 1.94s	remaining: 6.49s
230:	learn: 7.2641231	total: 1.94s	remaining: 6.46s
231:	learn: 7.2455415	total: 1.94s	remaining: 6.42s
232:	learn: 7.2272454	total: 1.94s	remaining: 6.39s
233:	learn: 7.2177800	total: 1.94s	remaining: 6.36s
234:	learn: 7.1944124	total: 1.94s	remaining: 6.33s
235:	learn: 7.1796311	total: 2.03s	remaining: 6.57s
236:	learn: 7.1701978	total: 2.03s	remaining: 6.54s
237:	learn: 7.1593391	total: 2.03s	remaining: 6.5s
238:	learn: 7.1455914	total: 2.03s	remaining: 6.47s
239:	learn: 7.1343974	total: 2.03s	remaining: 6.44s
240:	learn: 7.1142131	total: 2.04s	remaining: 6.41s
241:	learn: 7.0566855	total: 2.04s	remaining: 6.38s
242:	learn: 7.0262879	total: 2.04s	remaining: 6.35s
243:	learn: 7.0125184	total: 2.04s	remaining: 6.34s
244:	learn: 7.0034864	total: 2.12s	remaining: 6.54s
245:	learn: 6.9900872	total: 2.13s	remaining: 6.51s
246:	learn: 6.9788193	total: 2.13s	remaining: 6.48s
247:	learn: 6.9692604	total: 2.13s	remaining: 6.45s
248:	learn: 6.9568606	total: 2.13s	remaining: 6.42s
249:	learn: 6.9279564	total: 2.13s	remaining: 6.39s
250:	learn: 6.9252756	total: 2.13s	remaining: 6.36s
251:	learn: 6.9181231	total: 2.13s	remaining: 6.33s
252:	learn: 6.9044618	total: 2.13s	remaining: 6.3s
253:	learn: 6.8954861	total: 2.13s	remaining: 6.27s
254:	learn: 6.8839367	total: 2.14s	remaining: 6.24s
255:	learn: 6.8785020	total: 2.14s	remaining: 6.21s
256:	learn: 6.8624574	total: 2.22s	remaining: 6.42s
257:	learn: 6.8524901	total: 2.22s	remaining: 6.39s
258:	learn: 6.8412731	total: 2.22s	remaining: 6.36s

259:	learn: 6.8260266	total: 2.22s	remaining: 6.33s
260:	learn: 6.8170463	total: 2.22s	remaining: 6.3s
261:	learn: 6.8099544	total: 2.23s	remaining: 6.27s
262:	learn: 6.7890299	total: 2.23s	remaining: 6.24s
263:	learn: 6.7753940	total: 2.23s	remaining: 6.21s
264:	learn: 6.7591287	total: 2.23s	remaining: 6.18s
265:	learn: 6.7566725	total: 2.31s	remaining: 6.39s
266:	learn: 6.7371204	total: 2.32s	remaining: 6.36s
267:	learn: 6.6976000	total: 2.32s	remaining: 6.33s
268:	learn: 6.6823953	total: 2.32s	remaining: 6.3s
269:	learn: 6.6627489	total: 2.32s	remaining: 6.27s
270:	learn: 6.6311980	total: 2.32s	remaining: 6.24s
271:	learn: 6.6245791	total: 2.32s	remaining: 6.21s
272:	learn: 6.6092998	total: 2.32s	remaining: 6.19s
273:	learn: 6.5783946	total: 2.32s	remaining: 6.16s
274:	learn: 6.5530986	total: 2.33s	remaining: 6.13s
275:	learn: 6.5491687	total: 2.33s	remaining: 6.1s
276:	learn: 6.5310434	total: 2.41s	remaining: 6.29s
277:	learn: 6.5078658	total: 2.41s	remaining: 6.26s
278:	learn: 6.4854615	total: 2.41s	remaining: 6.24s
279:	learn: 6.4654185	total: 2.41s	remaining: 6.21s
280:	learn: 6.4595098	total: 2.42s	remaining: 6.18s
281:	learn: 6.4464503	total: 2.42s	remaining: 6.15s
282:	learn: 6.4400554	total: 2.42s	remaining: 6.13s
283:	learn: 6.4313629	total: 2.42s	remaining: 6.1s
284:	learn: 6.4104771	total: 2.42s	remaining: 6.07s
285:	learn: 6.4053418	total: 2.42s	remaining: 6.05s
286:	learn: 6.3989296	total: 2.51s	remaining: 6.23s
287:	learn: 6.3834557	total: 2.51s	remaining: 6.2s
288:	learn: 6.3755827	total: 2.51s	remaining: 6.17s
289:	learn: 6.3580964	total: 2.51s	remaining: 6.14s
290:	learn: 6.3320610	total: 2.51s	remaining: 6.12s
291:	learn: 6.3239770	total: 2.51s	remaining: 6.09s
292:	learn: 6.3069362	total: 2.51s	remaining: 6.07s
293:	learn: 6.2862795	total: 2.51s	remaining: 6.04s
294:	learn: 6.2735539	total: 2.52s	remaining: 6.01s
295:	learn: 6.2662630	total: 2.52s	remaining: 5.99s
296:	learn: 6.2315368	total: 2.52s	remaining: 5.96s
297:	learn: 6.2101270	total: 2.6s	remaining: 6.13s
298:	learn: 6.2067531	total: 2.6s	remaining: 6.1s
299:	learn: 6.1995423	total: 2.6s	remaining: 6.08s
300:	learn: 6.1768089	total: 2.6s	remaining: 6.05s
301:	learn: 6.1552811	total: 2.61s	remaining: 6.02s
302:	learn: 6.1500469	total: 2.61s	remaining: 6s
303:	learn: 6.1387531	total: 2.61s	remaining: 5.97s
304:	learn: 6.1320427	total: 2.61s	remaining: 5.95s
305:	learn: 6.1135704	total: 2.61s	remaining: 5.92s
306:	learn: 6.1022865	total: 2.61s	remaining: 5.9s
307:	learn: 6.0819048	total: 2.61s	remaining: 5.87s
308:	learn: 6.0710627	total: 2.7s	remaining: 6.03s
309:	learn: 6.0471422	total: 2.7s	remaining: 6s
310:	learn: 6.0451676	total: 2.7s	remaining: 5.98s
311:	learn: 6.0344121	total: 2.7s	remaining: 5.95s
312:	learn: 6.0094880	total: 2.7s	remaining: 5.93s
313:	learn: 5.9983030	total: 2.7s	remaining: 5.9s
314:	learn: 5.9892737	total: 2.7s	remaining: 5.88s
315:	learn: 5.9662024	total: 2.7s	remaining: 5.85s
316:	learn: 5.9589393	total: 2.71s	remaining: 5.83s
317:	learn: 5.9493913	total: 2.71s	remaining: 5.8s
318:	learn: 5.9316758	total: 2.71s	remaining: 5.78s
319:	learn: 5.9097395	total: 2.79s	remaining: 5.93s

320:	learn: 5.8929910	total: 2.79s	remaining: 5.91s
321:	learn: 5.8805346	total: 2.79s	remaining: 5.88s
322:	learn: 5.8718537	total: 2.8s	remaining: 5.86s
323:	learn: 5.8363512	total: 2.8s	remaining: 5.84s
324:	learn: 5.8264517	total: 2.8s	remaining: 5.81s
325:	learn: 5.8179105	total: 2.8s	remaining: 5.79s
326:	learn: 5.8066006	total: 2.8s	remaining: 5.76s
327:	learn: 5.8010800	total: 2.8s	remaining: 5.74s
328:	learn: 5.7867579	total: 2.89s	remaining: 5.89s
329:	learn: 5.7682647	total: 2.89s	remaining: 5.87s
330:	learn: 5.7449832	total: 2.89s	remaining: 5.84s
331:	learn: 5.7312622	total: 2.89s	remaining: 5.82s
332:	learn: 5.7294666	total: 2.89s	remaining: 5.79s
333:	learn: 5.7192564	total: 2.89s	remaining: 5.77s
334:	learn: 5.7057727	total: 2.9s	remaining: 5.75s
335:	learn: 5.6876398	total: 2.9s	remaining: 5.72s
336:	learn: 5.6865134	total: 2.9s	remaining: 5.7s
337:	learn: 5.6743352	total: 2.9s	remaining: 5.68s
338:	learn: 5.6582989	total: 2.9s	remaining: 5.66s
339:	learn: 5.6468766	total: 2.98s	remaining: 5.79s
340:	learn: 5.6305040	total: 2.98s	remaining: 5.77s
341:	learn: 5.6282273	total: 2.99s	remaining: 5.75s
342:	learn: 5.6114740	total: 2.99s	remaining: 5.72s
343:	learn: 5.5820173	total: 2.99s	remaining: 5.7s
344:	learn: 5.5674911	total: 2.99s	remaining: 5.68s
345:	learn: 5.5607265	total: 2.99s	remaining: 5.65s
346:	learn: 5.5488196	total: 2.99s	remaining: 5.63s
347:	learn: 5.5353744	total: 2.99s	remaining: 5.61s
348:	learn: 5.5228082	total: 3s	remaining: 5.59s
349:	learn: 5.5162806	total: 3.08s	remaining: 5.72s
350:	learn: 5.5054124	total: 3.08s	remaining: 5.7s
351:	learn: 5.4791634	total: 3.08s	remaining: 5.67s
352:	learn: 5.4663902	total: 3.08s	remaining: 5.65s
353:	learn: 5.4616409	total: 3.08s	remaining: 5.63s
354:	learn: 5.4457998	total: 3.09s	remaining: 5.61s
355:	learn: 5.4313530	total: 3.09s	remaining: 5.58s
356:	learn: 5.4119972	total: 3.09s	remaining: 5.56s
357:	learn: 5.3942753	total: 3.09s	remaining: 5.54s
358:	learn: 5.3923329	total: 3.09s	remaining: 5.52s
359:	learn: 5.3881578	total: 3.09s	remaining: 5.5s
360:	learn: 5.3836202	total: 3.09s	remaining: 5.47s
361:	learn: 5.3692107	total: 3.18s	remaining: 5.6s
362:	learn: 5.3545567	total: 3.18s	remaining: 5.58s
363:	learn: 5.3518166	total: 3.18s	remaining: 5.55s
364:	learn: 5.3445606	total: 3.18s	remaining: 5.53s
365:	learn: 5.3394968	total: 3.18s	remaining: 5.51s
366:	learn: 5.3267708	total: 3.18s	remaining: 5.49s
367:	learn: 5.3160222	total: 3.18s	remaining: 5.47s
368:	learn: 5.3082813	total: 3.19s	remaining: 5.45s
369:	learn: 5.3006485	total: 3.2s	remaining: 5.44s
370:	learn: 5.2871307	total: 3.27s	remaining: 5.55s
371:	learn: 5.2781948	total: 3.27s	remaining: 5.53s
372:	learn: 5.2701073	total: 3.27s	remaining: 5.5s
373:	learn: 5.2540939	total: 3.27s	remaining: 5.48s
374:	learn: 5.2528245	total: 3.28s	remaining: 5.46s
375:	learn: 5.2331768	total: 3.28s	remaining: 5.44s
376:	learn: 5.2220853	total: 3.28s	remaining: 5.42s
377:	learn: 5.2144848	total: 3.28s	remaining: 5.4s
378:	learn: 5.1974088	total: 3.28s	remaining: 5.38s
379:	learn: 5.1938563	total: 3.28s	remaining: 5.36s
380:	learn: 5.1832497	total: 3.28s	remaining: 5.34s

381:	learn: 5.1713579	total: 3.37s	remaining: 5.45s
382:	learn: 5.1665596	total: 3.37s	remaining: 5.43s
383:	learn: 5.1486857	total: 3.37s	remaining: 5.41s
384:	learn: 5.1396983	total: 3.37s	remaining: 5.38s
385:	learn: 5.1264246	total: 3.37s	remaining: 5.37s
386:	learn: 5.1121842	total: 3.37s	remaining: 5.34s
387:	learn: 5.0971340	total: 3.38s	remaining: 5.32s
388:	learn: 5.0943941	total: 3.38s	remaining: 5.3s
389:	learn: 5.0769075	total: 3.38s	remaining: 5.28s
390:	learn: 5.0684652	total: 3.38s	remaining: 5.26s
391:	learn: 5.0550413	total: 3.46s	remaining: 5.37s
392:	learn: 5.0448083	total: 3.46s	remaining: 5.35s
393:	learn: 5.0369303	total: 3.47s	remaining: 5.33s
394:	learn: 5.0336950	total: 3.47s	remaining: 5.31s
395:	learn: 5.0206376	total: 3.47s	remaining: 5.29s
396:	learn: 5.0067705	total: 3.47s	remaining: 5.27s
397:	learn: 4.9863681	total: 3.47s	remaining: 5.25s
398:	learn: 4.9772580	total: 3.47s	remaining: 5.23s
399:	learn: 4.9754763	total: 3.47s	remaining: 5.21s
400:	learn: 4.9656266	total: 3.47s	remaining: 5.19s
401:	learn: 4.9571393	total: 3.48s	remaining: 5.17s
402:	learn: 4.9330464	total: 3.48s	remaining: 5.15s
403:	learn: 4.9179646	total: 3.56s	remaining: 5.25s
404:	learn: 4.9102636	total: 3.56s	remaining: 5.23s
405:	learn: 4.8991417	total: 3.56s	remaining: 5.21s
406:	learn: 4.8955104	total: 3.56s	remaining: 5.19s
407:	learn: 4.8829346	total: 3.56s	remaining: 5.17s
408:	learn: 4.8766446	total: 3.56s	remaining: 5.15s
409:	learn: 4.8677487	total: 3.57s	remaining: 5.13s
410:	learn: 4.8559418	total: 3.57s	remaining: 5.11s
411:	learn: 4.8504079	total: 3.57s	remaining: 5.09s
412:	learn: 4.8464521	total: 3.57s	remaining: 5.07s
413:	learn: 4.8354373	total: 3.65s	remaining: 5.17s
414:	learn: 4.8264697	total: 3.66s	remaining: 5.16s
415:	learn: 4.8167416	total: 3.66s	remaining: 5.13s
416:	learn: 4.8056483	total: 3.66s	remaining: 5.12s
417:	learn: 4.7843846	total: 3.66s	remaining: 5.1s
418:	learn: 4.7654474	total: 3.66s	remaining: 5.08s
419:	learn: 4.7517544	total: 3.66s	remaining: 5.06s
420:	learn: 4.7466365	total: 3.66s	remaining: 5.04s
421:	learn: 4.7424480	total: 3.67s	remaining: 5.02s
422:	learn: 4.7312648	total: 3.67s	remaining: 5s
423:	learn: 4.7196004	total: 3.67s	remaining: 4.98s
424:	learn: 4.7051032	total: 3.75s	remaining: 5.07s
425:	learn: 4.6983898	total: 3.75s	remaining: 5.05s
426:	learn: 4.6919356	total: 3.75s	remaining: 5.04s
427:	learn: 4.6909305	total: 3.75s	remaining: 5.02s
428:	learn: 4.6770143	total: 3.75s	remaining: 5s
429:	learn: 4.6648236	total: 3.76s	remaining: 4.98s
430:	learn: 4.6585528	total: 3.76s	remaining: 4.96s
431:	learn: 4.6456715	total: 3.76s	remaining: 4.94s
432:	learn: 4.6332355	total: 3.76s	remaining: 4.92s
433:	learn: 4.6138288	total: 3.76s	remaining: 4.91s
434:	learn: 4.6033527	total: 3.76s	remaining: 4.89s
435:	learn: 4.5975011	total: 3.85s	remaining: 4.97s
436:	learn: 4.5919151	total: 3.85s	remaining: 4.96s
437:	learn: 4.5891583	total: 3.85s	remaining: 4.94s
438:	learn: 4.5669812	total: 3.85s	remaining: 4.92s
439:	learn: 4.5525985	total: 3.85s	remaining: 4.9s
440:	learn: 4.5398732	total: 3.85s	remaining: 4.88s
441:	learn: 4.5340647	total: 3.85s	remaining: 4.87s

442:	learn: 4.5250897	total: 3.85s	remaining: 4.85s
443:	learn: 4.5197569	total: 3.86s	remaining: 4.83s
444:	learn: 4.5069172	total: 3.86s	remaining: 4.81s
445:	learn: 4.4980813	total: 3.94s	remaining: 4.89s
446:	learn: 4.4898992	total: 3.94s	remaining: 4.88s
447:	learn: 4.4792559	total: 3.94s	remaining: 4.86s
448:	learn: 4.4598608	total: 3.94s	remaining: 4.84s
449:	learn: 4.4485233	total: 3.95s	remaining: 4.82s
450:	learn: 4.4428503	total: 3.95s	remaining: 4.81s
451:	learn: 4.4317609	total: 3.95s	remaining: 4.79s
452:	learn: 4.4231811	total: 3.95s	remaining: 4.77s
453:	learn: 4.4169160	total: 3.95s	remaining: 4.75s
454:	learn: 4.4072925	total: 3.95s	remaining: 4.73s
455:	learn: 4.3939058	total: 4.04s	remaining: 4.82s
456:	learn: 4.3821406	total: 4.04s	remaining: 4.8s
457:	learn: 4.3744610	total: 4.04s	remaining: 4.78s
458:	learn: 4.3728542	total: 4.04s	remaining: 4.76s
459:	learn: 4.3589053	total: 4.04s	remaining: 4.75s
460:	learn: 4.3580553	total: 4.05s	remaining: 4.73s
461:	learn: 4.3510403	total: 4.05s	remaining: 4.71s
462:	learn: 4.3450939	total: 4.05s	remaining: 4.7s
463:	learn: 4.3443100	total: 4.05s	remaining: 4.68s
464:	learn: 4.3436234	total: 4.06s	remaining: 4.67s
465:	learn: 4.3375758	total: 4.13s	remaining: 4.74s
466:	learn: 4.3262122	total: 4.13s	remaining: 4.72s
467:	learn: 4.3183707	total: 4.13s	remaining: 4.7s
468:	learn: 4.3121903	total: 4.14s	remaining: 4.68s
469:	learn: 4.3067365	total: 4.14s	remaining: 4.67s
470:	learn: 4.3011738	total: 4.14s	remaining: 4.65s
471:	learn: 4.2957972	total: 4.14s	remaining: 4.63s
472:	learn: 4.2872299	total: 4.14s	remaining: 4.61s
473:	learn: 4.2804596	total: 4.14s	remaining: 4.6s
474:	learn: 4.2752200	total: 4.14s	remaining: 4.58s
475:	learn: 4.2731759	total: 4.14s	remaining: 4.56s
476:	learn: 4.2670721	total: 4.14s	remaining: 4.54s
477:	learn: 4.2625024	total: 4.23s	remaining: 4.62s
478:	learn: 4.2512193	total: 4.23s	remaining: 4.6s
479:	learn: 4.2371169	total: 4.23s	remaining: 4.58s
480:	learn: 4.2267721	total: 4.23s	remaining: 4.57s
481:	learn: 4.2157894	total: 4.23s	remaining: 4.55s
482:	learn: 4.2122864	total: 4.24s	remaining: 4.53s
483:	learn: 4.2088316	total: 4.24s	remaining: 4.52s
484:	learn: 4.2071482	total: 4.24s	remaining: 4.5s
485:	learn: 4.2020380	total: 4.24s	remaining: 4.48s
486:	learn: 4.1867676	total: 4.32s	remaining: 4.55s
487:	learn: 4.1827234	total: 4.33s	remaining: 4.54s
488:	learn: 4.1703167	total: 4.33s	remaining: 4.52s
489:	learn: 4.1602121	total: 4.33s	remaining: 4.51s
490:	learn: 4.1539423	total: 4.33s	remaining: 4.49s
491:	learn: 4.1371793	total: 4.33s	remaining: 4.47s
492:	learn: 4.1304497	total: 4.33s	remaining: 4.46s
493:	learn: 4.1296251	total: 4.33s	remaining: 4.44s
494:	learn: 4.1226265	total: 4.33s	remaining: 4.42s
495:	learn: 4.1097912	total: 4.34s	remaining: 4.41s
496:	learn: 4.1060669	total: 4.34s	remaining: 4.39s
497:	learn: 4.1000673	total: 4.42s	remaining: 4.46s
498:	learn: 4.0907281	total: 4.42s	remaining: 4.44s
499:	learn: 4.0852208	total: 4.42s	remaining: 4.42s
500:	learn: 4.0771960	total: 4.42s	remaining: 4.41s
501:	learn: 4.0634878	total: 4.43s	remaining: 4.39s
502:	learn: 4.0540138	total: 4.43s	remaining: 4.37s

503:	learn: 4.0394084	total: 4.43s	remaining: 4.36s
504:	learn: 4.0305881	total: 4.43s	remaining: 4.34s
505:	learn: 4.0265091	total: 4.43s	remaining: 4.33s
506:	learn: 4.0226224	total: 4.52s	remaining: 4.39s
507:	learn: 4.0115725	total: 4.52s	remaining: 4.38s
508:	learn: 4.0041879	total: 4.52s	remaining: 4.36s
509:	learn: 3.9880060	total: 4.52s	remaining: 4.34s
510:	learn: 3.9857895	total: 4.52s	remaining: 4.33s
511:	learn: 3.9728100	total: 4.52s	remaining: 4.31s
512:	learn: 3.9686222	total: 4.52s	remaining: 4.29s
513:	learn: 3.9581535	total: 4.52s	remaining: 4.28s
514:	learn: 3.9502587	total: 4.53s	remaining: 4.26s
515:	learn: 3.9432346	total: 4.53s	remaining: 4.25s
516:	learn: 3.9379659	total: 4.53s	remaining: 4.23s
517:	learn: 3.9328944	total: 4.61s	remaining: 4.29s
518:	learn: 3.9264523	total: 4.61s	remaining: 4.27s
519:	learn: 3.9233899	total: 4.61s	remaining: 4.26s
520:	learn: 3.9145251	total: 4.61s	remaining: 4.24s
521:	learn: 3.9119932	total: 4.62s	remaining: 4.23s
522:	learn: 3.8946984	total: 4.62s	remaining: 4.21s
523:	learn: 3.8846620	total: 4.62s	remaining: 4.2s
524:	learn: 3.8826911	total: 4.62s	remaining: 4.18s
525:	learn: 3.8744430	total: 4.62s	remaining: 4.16s
526:	learn: 3.8627132	total: 4.62s	remaining: 4.15s
527:	learn: 3.8572500	total: 4.71s	remaining: 4.21s
528:	learn: 3.8452508	total: 4.71s	remaining: 4.19s
529:	learn: 3.8414034	total: 4.71s	remaining: 4.18s
530:	learn: 3.8350526	total: 4.71s	remaining: 4.16s
531:	learn: 3.8338308	total: 4.71s	remaining: 4.14s
532:	learn: 3.8248980	total: 4.71s	remaining: 4.13s
533:	learn: 3.8196088	total: 4.71s	remaining: 4.11s
534:	learn: 3.8110947	total: 4.71s	remaining: 4.1s
535:	learn: 3.8007241	total: 4.72s	remaining: 4.08s
536:	learn: 3.7926424	total: 4.72s	remaining: 4.07s
537:	learn: 3.7841711	total: 4.72s	remaining: 4.05s
538:	learn: 3.7681969	total: 4.72s	remaining: 4.04s
539:	learn: 3.7594819	total: 4.8s	remaining: 4.09s
540:	learn: 3.7524748	total: 4.8s	remaining: 4.08s
541:	learn: 3.7457481	total: 4.8s	remaining: 4.06s
542:	learn: 3.7424700	total: 4.81s	remaining: 4.04s
543:	learn: 3.7384302	total: 4.81s	remaining: 4.03s
544:	learn: 3.7315456	total: 4.81s	remaining: 4.01s
545:	learn: 3.7250057	total: 4.81s	remaining: 4s
546:	learn: 3.7125472	total: 4.81s	remaining: 3.98s
547:	learn: 3.7082867	total: 4.81s	remaining: 3.97s
548:	learn: 3.7067683	total: 4.9s	remaining: 4.02s
549:	learn: 3.7062671	total: 4.9s	remaining: 4.01s
550:	learn: 3.7050249	total: 4.9s	remaining: 3.99s
551:	learn: 3.6949553	total: 4.9s	remaining: 3.98s
552:	learn: 3.6875616	total: 4.9s	remaining: 3.96s
553:	learn: 3.6801875	total: 4.9s	remaining: 3.95s
554:	learn: 3.6756512	total: 4.9s	remaining: 3.93s
555:	learn: 3.6715359	total: 4.9s	remaining: 3.92s
556:	learn: 3.6599029	total: 4.91s	remaining: 3.9s
557:	learn: 3.6512971	total: 4.99s	remaining: 3.95s
558:	learn: 3.6423842	total: 4.99s	remaining: 3.94s
559:	learn: 3.6318927	total: 4.99s	remaining: 3.92s
560:	learn: 3.6221929	total: 5s	remaining: 3.91s
561:	learn: 3.6206078	total: 5s	remaining: 3.89s
562:	learn: 3.6155291	total: 5s	remaining: 3.88s
563:	learn: 3.6054673	total: 5s	remaining: 3.86s

564:	learn: 3.5972902	total: 5s	remaining: 3.85s
565:	learn: 3.5869879	total: 5s	remaining: 3.83s
566:	learn: 3.5823035	total: 5s	remaining: 3.82s
567:	learn: 3.5748631	total: 5s	remaining: 3.81s
568:	learn: 3.5681567	total: 5s	remaining: 3.79s
569:	learn: 3.5582543	total: 5.09s	remaining: 3.84s
570:	learn: 3.5541022	total: 5.09s	remaining: 3.82s
571:	learn: 3.5477360	total: 5.09s	remaining: 3.81s
572:	learn: 3.5464868	total: 5.09s	remaining: 3.79s
573:	learn: 3.5413559	total: 5.09s	remaining: 3.78s
574:	learn: 3.5286460	total: 5.09s	remaining: 3.77s
575:	learn: 3.5212839	total: 5.1s	remaining: 3.75s
576:	learn: 3.5206968	total: 5.1s	remaining: 3.74s
577:	learn: 3.5122569	total: 5.1s	remaining: 3.72s
578:	learn: 3.5101541	total: 5.1s	remaining: 3.71s
579:	learn: 3.5015816	total: 5.18s	remaining: 3.75s
580:	learn: 3.4948381	total: 5.18s	remaining: 3.74s
581:	learn: 3.4815225	total: 5.19s	remaining: 3.73s
582:	learn: 3.4748795	total: 5.19s	remaining: 3.71s
583:	learn: 3.4732549	total: 5.19s	remaining: 3.7s
584:	learn: 3.4638920	total: 5.19s	remaining: 3.68s
585:	learn: 3.4493825	total: 5.19s	remaining: 3.67s
586:	learn: 3.4447028	total: 5.19s	remaining: 3.65s
587:	learn: 3.4370370	total: 5.2s	remaining: 3.64s
588:	learn: 3.4342784	total: 5.2s	remaining: 3.63s
589:	learn: 3.4269216	total: 5.2s	remaining: 3.61s
590:	learn: 3.4251897	total: 5.28s	remaining: 3.65s
591:	learn: 3.4224704	total: 5.28s	remaining: 3.64s
592:	learn: 3.4163227	total: 5.28s	remaining: 3.63s
593:	learn: 3.4114087	total: 5.28s	remaining: 3.61s
594:	learn: 3.4003819	total: 5.28s	remaining: 3.6s
595:	learn: 3.3928514	total: 5.29s	remaining: 3.58s
596:	learn: 3.3832349	total: 5.29s	remaining: 3.57s
597:	learn: 3.3755629	total: 5.29s	remaining: 3.56s
598:	learn: 3.3668094	total: 5.29s	remaining: 3.54s
599:	learn: 3.3625511	total: 5.29s	remaining: 3.53s
600:	learn: 3.3561281	total: 5.29s	remaining: 3.51s
601:	learn: 3.3473518	total: 5.37s	remaining: 3.55s
602:	learn: 3.3454617	total: 5.38s	remaining: 3.54s
603:	learn: 3.3434557	total: 5.38s	remaining: 3.52s
604:	learn: 3.3348566	total: 5.38s	remaining: 3.51s
605:	learn: 3.3321693	total: 5.38s	remaining: 3.5s
606:	learn: 3.3287939	total: 5.38s	remaining: 3.48s
607:	learn: 3.3247455	total: 5.38s	remaining: 3.47s
608:	learn: 3.3191334	total: 5.38s	remaining: 3.46s
609:	learn: 3.3183642	total: 5.38s	remaining: 3.44s
610:	learn: 3.3131194	total: 5.38s	remaining: 3.43s
611:	learn: 3.3073263	total: 5.38s	remaining: 3.41s
612:	learn: 3.3029462	total: 5.39s	remaining: 3.4s
613:	learn: 3.2972730	total: 5.47s	remaining: 3.44s
614:	learn: 3.2934218	total: 5.47s	remaining: 3.42s
615:	learn: 3.2843923	total: 5.47s	remaining: 3.41s
616:	learn: 3.2732478	total: 5.47s	remaining: 3.4s
617:	learn: 3.2679134	total: 5.47s	remaining: 3.38s
618:	learn: 3.2593592	total: 5.48s	remaining: 3.37s
619:	learn: 3.2543047	total: 5.48s	remaining: 3.36s
620:	learn: 3.2504325	total: 5.48s	remaining: 3.34s
621:	learn: 3.2430458	total: 5.48s	remaining: 3.33s
622:	learn: 3.2382418	total: 5.57s	remaining: 3.37s
623:	learn: 3.2353030	total: 5.57s	remaining: 3.35s
624:	learn: 3.2327743	total: 5.57s	remaining: 3.34s

625:	learn: 3.2265438	total: 5.57s	remaining: 3.33s
626:	learn: 3.2249443	total: 5.57s	remaining: 3.31s
627:	learn: 3.2196436	total: 5.57s	remaining: 3.3s
628:	learn: 3.2171251	total: 5.57s	remaining: 3.29s
629:	learn: 3.2165616	total: 5.57s	remaining: 3.27s
630:	learn: 3.2090909	total: 5.58s	remaining: 3.26s
631:	learn: 3.2044825	total: 5.58s	remaining: 3.25s
632:	learn: 3.1982833	total: 5.58s	remaining: 3.23s
633:	learn: 3.1975655	total: 5.58s	remaining: 3.22s
634:	learn: 3.1959893	total: 5.66s	remaining: 3.25s
635:	learn: 3.1887666	total: 5.66s	remaining: 3.24s
636:	learn: 3.1862206	total: 5.66s	remaining: 3.23s
637:	learn: 3.1824610	total: 5.67s	remaining: 3.21s
638:	learn: 3.1692227	total: 5.67s	remaining: 3.2s
639:	learn: 3.1645418	total: 5.67s	remaining: 3.19s
640:	learn: 3.1597432	total: 5.67s	remaining: 3.17s
641:	learn: 3.1482732	total: 5.67s	remaining: 3.16s
642:	learn: 3.1427656	total: 5.67s	remaining: 3.15s
643:	learn: 3.1297269	total: 5.67s	remaining: 3.14s
644:	learn: 3.1231938	total: 5.67s	remaining: 3.12s
645:	learn: 3.1169390	total: 5.76s	remaining: 3.15s
646:	learn: 3.1162929	total: 5.76s	remaining: 3.14s
647:	learn: 3.1096867	total: 5.76s	remaining: 3.13s
648:	learn: 3.1062276	total: 5.76s	remaining: 3.12s
649:	learn: 3.1019685	total: 5.76s	remaining: 3.1s
650:	learn: 3.0926484	total: 5.76s	remaining: 3.09s
651:	learn: 3.0889716	total: 5.76s	remaining: 3.08s
652:	learn: 3.0842529	total: 5.77s	remaining: 3.06s
653:	learn: 3.0802334	total: 5.77s	remaining: 3.05s
654:	learn: 3.0702607	total: 5.77s	remaining: 3.04s
655:	learn: 3.0656985	total: 5.85s	remaining: 3.07s
656:	learn: 3.0641057	total: 5.85s	remaining: 3.06s
657:	learn: 3.0587648	total: 5.86s	remaining: 3.04s
658:	learn: 3.0548483	total: 5.86s	remaining: 3.03s
659:	learn: 3.0537124	total: 5.86s	remaining: 3.02s
660:	learn: 3.0523681	total: 5.86s	remaining: 3s
661:	learn: 3.0483751	total: 5.86s	remaining: 2.99s
662:	learn: 3.0478345	total: 5.86s	remaining: 2.98s
663:	learn: 3.0376395	total: 5.86s	remaining: 2.97s
664:	learn: 3.0341525	total: 5.86s	remaining: 2.95s
665:	learn: 3.0247433	total: 5.87s	remaining: 2.94s
666:	learn: 3.0174800	total: 5.95s	remaining: 2.97s
667:	learn: 3.0090626	total: 5.95s	remaining: 2.96s
668:	learn: 3.0020348	total: 5.95s	remaining: 2.94s
669:	learn: 2.9999338	total: 5.95s	remaining: 2.93s
670:	learn: 2.9916767	total: 5.95s	remaining: 2.92s
671:	learn: 2.9912968	total: 5.95s	remaining: 2.91s
672:	learn: 2.9904944	total: 5.96s	remaining: 2.89s
673:	learn: 2.9862379	total: 5.96s	remaining: 2.88s
674:	learn: 2.9852064	total: 5.96s	remaining: 2.87s
675:	learn: 2.9816672	total: 5.96s	remaining: 2.85s
676:	learn: 2.9807584	total: 5.96s	remaining: 2.84s
677:	learn: 2.9796246	total: 6.04s	remaining: 2.87s
678:	learn: 2.9752317	total: 6.04s	remaining: 2.86s
679:	learn: 2.9715643	total: 6.05s	remaining: 2.85s
680:	learn: 2.9671776	total: 6.05s	remaining: 2.83s
681:	learn: 2.9551635	total: 6.05s	remaining: 2.82s
682:	learn: 2.9470239	total: 6.05s	remaining: 2.81s
683:	learn: 2.9447569	total: 6.05s	remaining: 2.79s
684:	learn: 2.9427685	total: 6.05s	remaining: 2.78s
685:	learn: 2.9383376	total: 6.05s	remaining: 2.77s

686:	learn: 2.9339862	total: 6.05s	remaining: 2.76s
687:	learn: 2.9301755	total: 6.14s	remaining: 2.78s
688:	learn: 2.9250607	total: 6.14s	remaining: 2.77s
689:	learn: 2.9149932	total: 6.14s	remaining: 2.76s
690:	learn: 2.9102582	total: 6.14s	remaining: 2.75s
691:	learn: 2.9071970	total: 6.14s	remaining: 2.73s
692:	learn: 2.9021388	total: 6.15s	remaining: 2.72s
693:	learn: 2.8960928	total: 6.15s	remaining: 2.71s
694:	learn: 2.8878147	total: 6.15s	remaining: 2.7s
695:	learn: 2.8818309	total: 6.15s	remaining: 2.69s
696:	learn: 2.8785784	total: 6.16s	remaining: 2.68s
697:	learn: 2.8783397	total: 6.24s	remaining: 2.7s
698:	learn: 2.8758475	total: 6.24s	remaining: 2.69s
699:	learn: 2.8716626	total: 6.24s	remaining: 2.67s
700:	learn: 2.8630826	total: 6.24s	remaining: 2.66s
701:	learn: 2.8582742	total: 6.24s	remaining: 2.65s
702:	learn: 2.8545652	total: 6.24s	remaining: 2.64s
703:	learn: 2.8473564	total: 6.24s	remaining: 2.63s
704:	learn: 2.8401302	total: 6.25s	remaining: 2.61s
705:	learn: 2.8339942	total: 6.25s	remaining: 2.6s
706:	learn: 2.8306942	total: 6.33s	remaining: 2.62s
707:	learn: 2.8266787	total: 6.33s	remaining: 2.61s
708:	learn: 2.8207995	total: 6.33s	remaining: 2.6s
709:	learn: 2.8147343	total: 6.34s	remaining: 2.59s
710:	learn: 2.8105254	total: 6.34s	remaining: 2.58s
711:	learn: 2.8069842	total: 6.34s	remaining: 2.56s
712:	learn: 2.8046128	total: 6.34s	remaining: 2.55s
713:	learn: 2.8027491	total: 6.34s	remaining: 2.54s
714:	learn: 2.7995703	total: 6.34s	remaining: 2.53s
715:	learn: 2.7986695	total: 6.34s	remaining: 2.52s
716:	learn: 2.7943104	total: 6.34s	remaining: 2.5s
717:	learn: 2.7907555	total: 6.43s	remaining: 2.52s
718:	learn: 2.7811150	total: 6.43s	remaining: 2.51s
719:	learn: 2.7771554	total: 6.43s	remaining: 2.5s
720:	learn: 2.7727764	total: 6.43s	remaining: 2.49s
721:	learn: 2.7708093	total: 6.43s	remaining: 2.48s
722:	learn: 2.7695358	total: 6.43s	remaining: 2.46s
723:	learn: 2.7627812	total: 6.43s	remaining: 2.45s
724:	learn: 2.7614535	total: 6.44s	remaining: 2.44s
725:	learn: 2.7561905	total: 6.44s	remaining: 2.43s
726:	learn: 2.7521863	total: 6.44s	remaining: 2.42s
727:	learn: 2.7477690	total: 6.44s	remaining: 2.41s
728:	learn: 2.7434561	total: 6.44s	remaining: 2.39s
729:	learn: 2.7372977	total: 6.52s	remaining: 2.41s
730:	learn: 2.7347877	total: 6.52s	remaining: 2.4s
731:	learn: 2.7312083	total: 6.53s	remaining: 2.39s
732:	learn: 2.7288029	total: 6.53s	remaining: 2.38s
733:	learn: 2.7219112	total: 6.53s	remaining: 2.37s
734:	learn: 2.7179177	total: 6.53s	remaining: 2.35s
735:	learn: 2.7162938	total: 6.53s	remaining: 2.34s
736:	learn: 2.7152834	total: 6.53s	remaining: 2.33s
737:	learn: 2.7126795	total: 6.53s	remaining: 2.32s
738:	learn: 2.7116182	total: 6.54s	remaining: 2.31s
739:	learn: 2.7111358	total: 6.62s	remaining: 2.33s
740:	learn: 2.7066419	total: 6.62s	remaining: 2.31s
741:	learn: 2.7002570	total: 6.62s	remaining: 2.3s
742:	learn: 2.6975648	total: 6.62s	remaining: 2.29s
743:	learn: 2.6943904	total: 6.62s	remaining: 2.28s
744:	learn: 2.6868735	total: 6.63s	remaining: 2.27s
745:	learn: 2.6820636	total: 6.63s	remaining: 2.26s
746:	learn: 2.6811229	total: 6.63s	remaining: 2.24s

747:	learn: 2.6808345	total: 6.63s	remaining: 2.23s
748:	learn: 2.6772869	total: 6.63s	remaining: 2.22s
749:	learn: 2.6764416	total: 6.71s	remaining: 2.24s
750:	learn: 2.6737343	total: 6.72s	remaining: 2.23s
751:	learn: 2.6687140	total: 6.72s	remaining: 2.21s
752:	learn: 2.6648177	total: 6.72s	remaining: 2.2s
753:	learn: 2.6642367	total: 6.72s	remaining: 2.19s
754:	learn: 2.6614574	total: 6.72s	remaining: 2.18s
755:	learn: 2.6547143	total: 6.72s	remaining: 2.17s
756:	learn: 2.6511875	total: 6.72s	remaining: 2.16s
757:	learn: 2.6488263	total: 6.72s	remaining: 2.15s
758:	learn: 2.6475833	total: 6.72s	remaining: 2.13s
759:	learn: 2.6442720	total: 6.73s	remaining: 2.12s
760:	learn: 2.6413620	total: 6.73s	remaining: 2.11s
761:	learn: 2.6362002	total: 6.73s	remaining: 2.1s
762:	learn: 2.6310377	total: 6.81s	remaining: 2.12s
763:	learn: 2.6268841	total: 6.81s	remaining: 2.1s
764:	learn: 2.6207236	total: 6.81s	remaining: 2.09s
765:	learn: 2.6184227	total: 6.82s	remaining: 2.08s
766:	learn: 2.6146851	total: 6.82s	remaining: 2.07s
767:	learn: 2.6134413	total: 6.82s	remaining: 2.06s
768:	learn: 2.6103532	total: 6.82s	remaining: 2.05s
769:	learn: 2.6051564	total: 6.82s	remaining: 2.04s
770:	learn: 2.6039631	total: 6.82s	remaining: 2.03s
771:	learn: 2.6016195	total: 6.82s	remaining: 2.01s
772:	learn: 2.5949587	total: 6.91s	remaining: 2.03s
773:	learn: 2.5891357	total: 6.91s	remaining: 2.02s
774:	learn: 2.5799643	total: 6.91s	remaining: 2s
775:	learn: 2.5768630	total: 6.91s	remaining: 1.99s
776:	learn: 2.5743773	total: 6.91s	remaining: 1.98s
777:	learn: 2.5741180	total: 6.91s	remaining: 1.97s
778:	learn: 2.5718268	total: 6.91s	remaining: 1.96s
779:	learn: 2.5633668	total: 6.91s	remaining: 1.95s
780:	learn: 2.5562395	total: 6.92s	remaining: 1.94s
781:	learn: 2.5511567	total: 6.92s	remaining: 1.93s
782:	learn: 2.5490925	total: 6.92s	remaining: 1.92s
783:	learn: 2.5420323	total: 7s	remaining: 1.93s
784:	learn: 2.5386732	total: 7s	remaining: 1.92s
785:	learn: 2.5344860	total: 7s	remaining: 1.91s
786:	learn: 2.5327366	total: 7s	remaining: 1.9s
787:	learn: 2.5282270	total: 7.01s	remaining: 1.88s
788:	learn: 2.5249361	total: 7.01s	remaining: 1.87s
789:	learn: 2.5176984	total: 7.01s	remaining: 1.86s
790:	learn: 2.5144584	total: 7.01s	remaining: 1.85s
791:	learn: 2.5127131	total: 7.01s	remaining: 1.84s
792:	learn: 2.5077070	total: 7.01s	remaining: 1.83s
793:	learn: 2.5041537	total: 7.01s	remaining: 1.82s
794:	learn: 2.5019485	total: 7.1s	remaining: 1.83s
795:	learn: 2.5000798	total: 7.1s	remaining: 1.82s
796:	learn: 2.4947596	total: 7.1s	remaining: 1.81s
797:	learn: 2.4898628	total: 7.1s	remaining: 1.8s
798:	learn: 2.4860214	total: 7.1s	remaining: 1.79s
799:	learn: 2.4834282	total: 7.1s	remaining: 1.77s
800:	learn: 2.4789319	total: 7.1s	remaining: 1.76s
801:	learn: 2.4763297	total: 7.1s	remaining: 1.75s
802:	learn: 2.4706437	total: 7.11s	remaining: 1.74s
803:	learn: 2.4702406	total: 7.11s	remaining: 1.73s
804:	learn: 2.4676216	total: 7.19s	remaining: 1.74s
805:	learn: 2.4611970	total: 7.19s	remaining: 1.73s
806:	learn: 2.4594871	total: 7.2s	remaining: 1.72s
807:	learn: 2.4556366	total: 7.2s	remaining: 1.71s

808:	learn: 2.4458923	total: 7.2s	remaining: 1.7s
809:	learn: 2.4412604	total: 7.2s	remaining: 1.69s
810:	learn: 2.4377191	total: 7.2s	remaining: 1.68s
811:	learn: 2.4333613	total: 7.2s	remaining: 1.67s
812:	learn: 2.4275581	total: 7.2s	remaining: 1.66s
813:	learn: 2.4218743	total: 7.2s	remaining: 1.65s
814:	learn: 2.4161780	total: 7.2s	remaining: 1.64s
815:	learn: 2.4112979	total: 7.21s	remaining: 1.62s
816:	learn: 2.4055964	total: 7.29s	remaining: 1.63s
817:	learn: 2.4026326	total: 7.29s	remaining: 1.62s
818:	learn: 2.4019930	total: 7.29s	remaining: 1.61s
819:	learn: 2.3971023	total: 7.29s	remaining: 1.6s
820:	learn: 2.3946173	total: 7.29s	remaining: 1.59s
821:	learn: 2.3910442	total: 7.29s	remaining: 1.58s
822:	learn: 2.3908206	total: 7.3s	remaining: 1.57s
823:	learn: 2.3879761	total: 7.3s	remaining: 1.56s
824:	learn: 2.3866054	total: 7.3s	remaining: 1.55s
825:	learn: 2.3830829	total: 7.3s	remaining: 1.54s
826:	learn: 2.3809383	total: 7.38s	remaining: 1.54s
827:	learn: 2.3723107	total: 7.38s	remaining: 1.53s
828:	learn: 2.3703448	total: 7.39s	remaining: 1.52s
829:	learn: 2.3651730	total: 7.39s	remaining: 1.51s
830:	learn: 2.3594616	total: 7.39s	remaining: 1.5s
831:	learn: 2.3536519	total: 7.39s	remaining: 1.49s
832:	learn: 2.3518505	total: 7.39s	remaining: 1.48s
833:	learn: 2.3506017	total: 7.39s	remaining: 1.47s
834:	learn: 2.3453663	total: 7.39s	remaining: 1.46s
835:	learn: 2.3415339	total: 7.39s	remaining: 1.45s
836:	learn: 2.3411565	total: 7.39s	remaining: 1.44s
837:	learn: 2.3355384	total: 7.48s	remaining: 1.45s
838:	learn: 2.3277195	total: 7.48s	remaining: 1.44s
839:	learn: 2.3270251	total: 7.48s	remaining: 1.43s
840:	learn: 2.3202668	total: 7.48s	remaining: 1.42s
841:	learn: 2.3173010	total: 7.49s	remaining: 1.4s
842:	learn: 2.3124242	total: 7.49s	remaining: 1.39s
843:	learn: 2.3048048	total: 7.49s	remaining: 1.38s
844:	learn: 2.3037293	total: 7.49s	remaining: 1.37s
845:	learn: 2.3016218	total: 7.49s	remaining: 1.36s
846:	learn: 2.2994327	total: 7.49s	remaining: 1.35s
847:	learn: 2.2969955	total: 7.49s	remaining: 1.34s
848:	learn: 2.2910488	total: 7.57s	remaining: 1.35s
849:	learn: 2.2898680	total: 7.58s	remaining: 1.34s
850:	learn: 2.2885432	total: 7.58s	remaining: 1.33s
851:	learn: 2.2865085	total: 7.58s	remaining: 1.32s
852:	learn: 2.2800220	total: 7.58s	remaining: 1.31s
853:	learn: 2.2744774	total: 7.58s	remaining: 1.29s
854:	learn: 2.2742059	total: 7.58s	remaining: 1.28s
855:	learn: 2.2719259	total: 7.58s	remaining: 1.27s
856:	learn: 2.2678437	total: 7.58s	remaining: 1.26s
857:	learn: 2.2657946	total: 7.58s	remaining: 1.25s
858:	learn: 2.2600590	total: 7.59s	remaining: 1.25s
859:	learn: 2.2573941	total: 7.67s	remaining: 1.25s
860:	learn: 2.2531241	total: 7.67s	remaining: 1.24s
861:	learn: 2.2484317	total: 7.67s	remaining: 1.23s
862:	learn: 2.2477012	total: 7.67s	remaining: 1.22s
863:	learn: 2.2443046	total: 7.67s	remaining: 1.21s
864:	learn: 2.2438547	total: 7.68s	remaining: 1.2s
865:	learn: 2.2435805	total: 7.68s	remaining: 1.19s
866:	learn: 2.2431579	total: 7.68s	remaining: 1.18s
867:	learn: 2.2392388	total: 7.68s	remaining: 1.17s
868:	learn: 2.2357060	total: 7.68s	remaining: 1.16s

869:	learn: 2.2353804	total: 7.68s	remaining: 1.15s
870:	learn: 2.2298267	total: 7.68s	remaining: 1.14s
871:	learn: 2.2283428	total: 7.77s	remaining: 1.14s
872:	learn: 2.2234547	total: 7.77s	remaining: 1.13s
873:	learn: 2.2199382	total: 7.77s	remaining: 1.12s
874:	learn: 2.2160458	total: 7.77s	remaining: 1.11s
875:	learn: 2.2113419	total: 7.77s	remaining: 1.1s
876:	learn: 2.2076582	total: 7.77s	remaining: 1.09s
877:	learn: 2.2036034	total: 7.77s	remaining: 1.08s
878:	learn: 2.1991262	total: 7.77s	remaining: 1.07s
879:	learn: 2.1944610	total: 7.78s	remaining: 1.06s
880:	learn: 2.1883668	total: 7.78s	remaining: 1.05s
881:	learn: 2.1857142	total: 7.78s	remaining: 1.04s
882:	learn: 2.1840486	total: 7.86s	remaining: 1.04s
883:	learn: 2.1838690	total: 7.86s	remaining: 1.03s
884:	learn: 2.1821469	total: 7.86s	remaining: 1.02s
885:	learn: 2.1797711	total: 7.87s	remaining: 1.01s
886:	learn: 2.1742097	total: 7.87s	remaining: 1s
887:	learn: 2.1697891	total: 7.87s	remaining: 992ms
888:	learn: 2.1662264	total: 7.87s	remaining: 983ms
889:	learn: 2.1599692	total: 7.87s	remaining: 973ms
890:	learn: 2.1593107	total: 7.87s	remaining: 963ms
891:	learn: 2.1568876	total: 7.87s	remaining: 953ms
892:	learn: 2.1544822	total: 7.96s	remaining: 953ms
893:	learn: 2.1515540	total: 7.96s	remaining: 944ms
894:	learn: 2.1476471	total: 7.96s	remaining: 934ms
895:	learn: 2.1456089	total: 7.96s	remaining: 924ms
896:	learn: 2.1422193	total: 7.96s	remaining: 914ms
897:	learn: 2.1410976	total: 7.96s	remaining: 905ms
898:	learn: 2.1363614	total: 7.96s	remaining: 895ms
899:	learn: 2.1313548	total: 7.97s	remaining: 885ms
900:	learn: 2.1270665	total: 7.97s	remaining: 876ms
901:	learn: 2.1235722	total: 7.97s	remaining: 866ms
902:	learn: 2.1232869	total: 8.05s	remaining: 865ms
903:	learn: 2.1199278	total: 8.05s	remaining: 855ms
904:	learn: 2.1168112	total: 8.05s	remaining: 846ms
905:	learn: 2.1146257	total: 8.06s	remaining: 836ms
906:	learn: 2.1128834	total: 8.06s	remaining: 826ms
907:	learn: 2.1080462	total: 8.06s	remaining: 817ms
908:	learn: 2.1030560	total: 8.06s	remaining: 807ms
909:	learn: 2.1025184	total: 8.06s	remaining: 797ms
910:	learn: 2.1005363	total: 8.06s	remaining: 788ms
911:	learn: 2.0984966	total: 8.06s	remaining: 778ms
912:	learn: 2.0918496	total: 8.06s	remaining: 769ms
913:	learn: 2.0892201	total: 8.15s	remaining: 767ms
914:	learn: 2.0861018	total: 8.15s	remaining: 757ms
915:	learn: 2.0816995	total: 8.15s	remaining: 748ms
916:	learn: 2.0780192	total: 8.15s	remaining: 738ms
917:	learn: 2.0756640	total: 8.15s	remaining: 728ms
918:	learn: 2.0742358	total: 8.15s	remaining: 719ms
919:	learn: 2.0707251	total: 8.16s	remaining: 709ms
920:	learn: 2.0697376	total: 8.16s	remaining: 700ms
921:	learn: 2.0634870	total: 8.16s	remaining: 690ms
922:	learn: 2.0595242	total: 8.16s	remaining: 681ms
923:	learn: 2.0568179	total: 8.16s	remaining: 671ms
924:	learn: 2.0537613	total: 8.24s	remaining: 668ms
925:	learn: 2.0514722	total: 8.24s	remaining: 659ms
926:	learn: 2.0464700	total: 8.25s	remaining: 649ms
927:	learn: 2.0426057	total: 8.25s	remaining: 640ms
928:	learn: 2.0390628	total: 8.25s	remaining: 631ms
929:	learn: 2.0379946	total: 8.25s	remaining: 621ms

930:	learn: 2.0374615	total: 8.25s	remaining: 612ms
931:	learn: 2.0346404	total: 8.26s	remaining: 602ms
932:	learn: 2.0323591	total: 8.26s	remaining: 593ms
933:	learn: 2.0303403	total: 8.26s	remaining: 584ms
934:	learn: 2.0272123	total: 8.34s	remaining: 580ms
935:	learn: 2.0268714	total: 8.34s	remaining: 570ms
936:	learn: 2.0206912	total: 8.34s	remaining: 561ms
937:	learn: 2.0170303	total: 8.34s	remaining: 552ms
938:	learn: 2.0134925	total: 8.35s	remaining: 542ms
939:	learn: 2.0073479	total: 8.35s	remaining: 533ms
940:	learn: 2.0048241	total: 8.35s	remaining: 523ms
941:	learn: 2.0043598	total: 8.35s	remaining: 514ms
942:	learn: 2.0016294	total: 8.35s	remaining: 505ms
943:	learn: 2.0014643	total: 8.35s	remaining: 496ms
944:	learn: 1.9997222	total: 8.44s	remaining: 491ms
945:	learn: 1.9967951	total: 8.44s	remaining: 482ms
946:	learn: 1.9934871	total: 8.44s	remaining: 472ms
947:	learn: 1.9911485	total: 8.44s	remaining: 463ms
948:	learn: 1.9860815	total: 8.45s	remaining: 454ms
949:	learn: 1.9853217	total: 8.45s	remaining: 445ms
950:	learn: 1.9795413	total: 8.45s	remaining: 435ms
951:	learn: 1.9756486	total: 8.45s	remaining: 426ms
952:	learn: 1.9725706	total: 8.45s	remaining: 417ms
953:	learn: 1.9669824	total: 8.53s	remaining: 411ms
954:	learn: 1.9650611	total: 8.53s	remaining: 402ms
955:	learn: 1.9619818	total: 8.53s	remaining: 393ms
956:	learn: 1.9595431	total: 8.54s	remaining: 384ms
957:	learn: 1.9552620	total: 8.54s	remaining: 374ms
958:	learn: 1.9528791	total: 8.54s	remaining: 365ms
959:	learn: 1.9511054	total: 8.54s	remaining: 356ms
960:	learn: 1.9494867	total: 8.54s	remaining: 347ms
961:	learn: 1.9474794	total: 8.54s	remaining: 337ms
962:	learn: 1.9448311	total: 8.55s	remaining: 328ms
963:	learn: 1.9397172	total: 8.63s	remaining: 322ms
964:	learn: 1.9369555	total: 8.63s	remaining: 313ms
965:	learn: 1.9326268	total: 8.63s	remaining: 304ms
966:	learn: 1.9278666	total: 8.63s	remaining: 295ms
967:	learn: 1.9257450	total: 8.63s	remaining: 285ms
968:	learn: 1.9241446	total: 8.63s	remaining: 276ms
969:	learn: 1.9196358	total: 8.64s	remaining: 267ms
970:	learn: 1.9150977	total: 8.64s	remaining: 258ms
971:	learn: 1.9098860	total: 8.64s	remaining: 249ms
972:	learn: 1.9088018	total: 8.64s	remaining: 240ms
973:	learn: 1.9070636	total: 8.72s	remaining: 233ms
974:	learn: 1.9053965	total: 8.72s	remaining: 224ms
975:	learn: 1.9026251	total: 8.73s	remaining: 215ms
976:	learn: 1.9014060	total: 8.73s	remaining: 205ms
977:	learn: 1.9009528	total: 8.73s	remaining: 196ms
978:	learn: 1.8980057	total: 8.73s	remaining: 187ms
979:	learn: 1.8966413	total: 8.73s	remaining: 178ms
980:	learn: 1.8943792	total: 8.73s	remaining: 169ms
981:	learn: 1.8921152	total: 8.73s	remaining: 160ms
982:	learn: 1.8892373	total: 8.73s	remaining: 151ms
983:	learn: 1.8840314	total: 8.73s	remaining: 142ms
984:	learn: 1.8812901	total: 8.82s	remaining: 134ms
985:	learn: 1.8792807	total: 8.82s	remaining: 125ms
986:	learn: 1.8756614	total: 8.82s	remaining: 116ms
987:	learn: 1.8747293	total: 8.82s	remaining: 107ms
988:	learn: 1.8734715	total: 8.82s	remaining: 98.1ms
989:	learn: 1.8717417	total: 8.82s	remaining: 89.1ms
990:	learn: 1.8682815	total: 8.82s	remaining: 80.2ms

991:	learn: 1.8652881	total: 8.83s	remaining: 71.2ms
992:	learn: 1.8628822	total: 8.83s	remaining: 62.2ms
993:	learn: 1.8611084	total: 8.83s	remaining: 53.3ms
994:	learn: 1.8583827	total: 8.83s	remaining: 44.4ms
995:	learn: 1.8562465	total: 8.83s	remaining: 35.5ms
996:	learn: 1.8530267	total: 8.91s	remaining: 26.8ms
997:	learn: 1.8486696	total: 8.91s	remaining: 17.9ms
998:	learn: 1.8447427	total: 8.92s	remaining: 8.93ms
999:	learn: 1.8426193	total: 8.92s	remaining: 0us
0:	learn: 14.6811921	total: 4.71ms	remaining: 4.71s
1:	learn: 14.5549625	total: 9.38ms	remaining: 4.68s
2:	learn: 14.4401382	total: 19ms	remaining: 6.31s
3:	learn: 14.3227671	total: 81ms	remaining: 20.2s
4:	learn: 14.2061840	total: 85.2ms	remaining: 17s
5:	learn: 14.0999994	total: 89.3ms	remaining: 14.8s
6:	learn: 13.9947643	total: 178ms	remaining: 25.3s
7:	learn: 13.8972070	total: 183ms	remaining: 22.6s
8:	learn: 13.8175193	total: 187ms	remaining: 20.6s
9:	learn: 13.7241064	total: 275ms	remaining: 27.2s
10:	learn: 13.6247007	total: 279ms	remaining: 25.1s
11:	learn: 13.5269049	total: 283ms	remaining: 23.3s
12:	learn: 13.4319398	total: 372ms	remaining: 28.3s
13:	learn: 13.3571603	total: 377ms	remaining: 26.5s
14:	learn: 13.2565286	total: 381ms	remaining: 25s
15:	learn: 13.1753227	total: 470ms	remaining: 28.9s
16:	learn: 13.1113991	total: 475ms	remaining: 27.5s
17:	learn: 13.0389010	total: 480ms	remaining: 26.2s
18:	learn: 12.9629856	total: 484ms	remaining: 25s
19:	learn: 12.8948944	total: 571ms	remaining: 28s
20:	learn: 12.8153752	total: 575ms	remaining: 26.8s
21:	learn: 12.7432534	total: 579ms	remaining: 25.7s
22:	learn: 12.6837401	total: 666ms	remaining: 28.3s
23:	learn: 12.6127357	total: 670ms	remaining: 27.3s
24:	learn: 12.5520840	total: 675ms	remaining: 26.3s
25:	learn: 12.4852773	total: 764ms	remaining: 28.6s
26:	learn: 12.4254815	total: 766ms	remaining: 27.6s
27:	learn: 12.3796906	total: 770ms	remaining: 26.7s
28:	learn: 12.3223847	total: 775ms	remaining: 25.9s
29:	learn: 12.2672856	total: 864ms	remaining: 27.9s
30:	learn: 12.2153378	total: 868ms	remaining: 27.1s
31:	learn: 12.1768236	total: 873ms	remaining: 26.4s
32:	learn: 12.1270249	total: 962ms	remaining: 28.2s
33:	learn: 12.0726855	total: 966ms	remaining: 27.4s
34:	learn: 12.0281027	total: 972ms	remaining: 26.8s
35:	learn: 11.9792222	total: 1.06s	remaining: 28.4s
36:	learn: 11.9244552	total: 1.06s	remaining: 27.7s
37:	learn: 11.8711333	total: 1.07s	remaining: 27s
38:	learn: 11.8234031	total: 1.16s	remaining: 28.5s
39:	learn: 11.7711590	total: 1.16s	remaining: 27.9s
40:	learn: 11.7229338	total: 1.17s	remaining: 27.3s
41:	learn: 11.6835749	total: 1.25s	remaining: 28.6s
42:	learn: 11.6424295	total: 1.26s	remaining: 28s
43:	learn: 11.5887573	total: 1.26s	remaining: 27.5s
44:	learn: 11.5455545	total: 1.27s	remaining: 26.9s
45:	learn: 11.5066377	total: 1.36s	remaining: 28.2s
46:	learn: 11.4576158	total: 1.36s	remaining: 27.6s
47:	learn: 11.4294157	total: 1.36s	remaining: 27.1s
48:	learn: 11.3826131	total: 1.45s	remaining: 28.2s
49:	learn: 11.3492999	total: 1.46s	remaining: 27.7s
50:	learn: 11.3063212	total: 1.46s	remaining: 27.2s
51:	learn: 11.2644897	total: 1.55s	remaining: 28.3s

52:	learn: 11.2343570	total: 1.55s	remaining: 27.8s
53:	learn: 11.2045750	total: 1.56s	remaining: 27.3s
54:	learn: 11.1710245	total: 1.65s	remaining: 28.3s
55:	learn: 11.1409074	total: 1.65s	remaining: 27.9s
56:	learn: 11.1018929	total: 1.66s	remaining: 27.4s
57:	learn: 11.0729639	total: 1.75s	remaining: 28.3s
58:	learn: 11.0386755	total: 1.75s	remaining: 27.9s
59:	learn: 11.0034550	total: 1.75s	remaining: 27.5s
60:	learn: 10.9736261	total: 1.84s	remaining: 28.4s
61:	learn: 10.9485170	total: 1.85s	remaining: 28s
62:	learn: 10.9188204	total: 1.85s	remaining: 27.6s
63:	learn: 10.8879165	total: 1.94s	remaining: 28.4s
64:	learn: 10.8445773	total: 1.95s	remaining: 28s
65:	learn: 10.8113839	total: 1.95s	remaining: 27.6s
66:	learn: 10.7834909	total: 2.04s	remaining: 28.4s
67:	learn: 10.7632953	total: 2.04s	remaining: 28s
68:	learn: 10.7355340	total: 2.05s	remaining: 27.7s
69:	learn: 10.7047437	total: 2.05s	remaining: 27.3s
70:	learn: 10.6746831	total: 2.14s	remaining: 28s
71:	learn: 10.6461754	total: 2.15s	remaining: 27.7s
72:	learn: 10.6170161	total: 2.15s	remaining: 27.3s
73:	learn: 10.5878560	total: 2.24s	remaining: 28s
74:	learn: 10.5690273	total: 2.24s	remaining: 27.7s
75:	learn: 10.5288502	total: 2.25s	remaining: 27.3s
76:	learn: 10.5121840	total: 2.34s	remaining: 28s
77:	learn: 10.4893038	total: 2.34s	remaining: 27.7s
78:	learn: 10.4750611	total: 2.35s	remaining: 27.3s
79:	learn: 10.4551313	total: 2.44s	remaining: 28s
80:	learn: 10.4336199	total: 2.44s	remaining: 27.7s
81:	learn: 10.4069707	total: 2.44s	remaining: 27.4s
82:	learn: 10.3681150	total: 2.53s	remaining: 28s
83:	learn: 10.3485065	total: 2.54s	remaining: 27.7s
84:	learn: 10.3270004	total: 2.54s	remaining: 27.4s
85:	learn: 10.3131063	total: 2.63s	remaining: 28s
86:	learn: 10.2899548	total: 2.63s	remaining: 27.7s
87:	learn: 10.2658041	total: 2.64s	remaining: 27.4s
88:	learn: 10.2415782	total: 2.73s	remaining: 27.9s
89:	learn: 10.2184981	total: 2.73s	remaining: 27.6s
90:	learn: 10.1929136	total: 2.74s	remaining: 27.4s
91:	learn: 10.1690925	total: 2.83s	remaining: 27.9s
92:	learn: 10.1480632	total: 2.83s	remaining: 27.6s
93:	learn: 10.1331714	total: 2.83s	remaining: 27.3s
94:	learn: 10.1078048	total: 2.92s	remaining: 27.9s
95:	learn: 10.0937354	total: 2.93s	remaining: 27.6s
96:	learn: 10.0756686	total: 2.93s	remaining: 27.3s
97:	learn: 10.0514089	total: 3.02s	remaining: 27.8s
98:	learn: 10.0275232	total: 3.03s	remaining: 27.6s
99:	learn: 10.0087290	total: 3.03s	remaining: 27.3s
100:	learn: 9.9927064	total: 3.12s	remaining: 27.8s
101:	learn: 9.9763104	total: 3.13s	remaining: 27.5s
102:	learn: 9.9575479	total: 3.13s	remaining: 27.3s
103:	learn: 9.9380375	total: 3.22s	remaining: 27.7s
104:	learn: 9.9237860	total: 3.22s	remaining: 27.5s
105:	learn: 9.9053652	total: 3.23s	remaining: 27.2s
106:	learn: 9.8908093	total: 3.23s	remaining: 27s
107:	learn: 9.8739091	total: 3.32s	remaining: 27.4s
108:	learn: 9.8610223	total: 3.32s	remaining: 27.2s
109:	learn: 9.8421344	total: 3.33s	remaining: 26.9s
110:	learn: 9.8278697	total: 3.42s	remaining: 27.4s
111:	learn: 9.8039594	total: 3.42s	remaining: 27.1s
112:	learn: 9.7862316	total: 3.42s	remaining: 26.9s

113:	learn: 9.7628746	total: 3.51s	remaining: 27.3s
114:	learn: 9.7425300	total: 3.52s	remaining: 27.1s
115:	learn: 9.7260327	total: 3.52s	remaining: 26.8s
116:	learn: 9.7119986	total: 3.61s	remaining: 27.3s
117:	learn: 9.6904298	total: 3.62s	remaining: 27s
118:	learn: 9.6766517	total: 3.62s	remaining: 26.8s
119:	learn: 9.6631246	total: 3.71s	remaining: 27.2s
120:	learn: 9.6408150	total: 3.71s	remaining: 27s
121:	learn: 9.6284135	total: 3.72s	remaining: 26.8s
122:	learn: 9.6103467	total: 3.81s	remaining: 27.2s
123:	learn: 9.5910675	total: 3.81s	remaining: 26.9s
124:	learn: 9.5636020	total: 3.82s	remaining: 26.7s
125:	learn: 9.5459362	total: 3.91s	remaining: 27.1s
126:	learn: 9.5301214	total: 3.91s	remaining: 26.9s
127:	learn: 9.5177756	total: 3.92s	remaining: 26.7s
128:	learn: 9.5103381	total: 3.92s	remaining: 26.5s
129:	learn: 9.5003442	total: 4.01s	remaining: 26.8s
130:	learn: 9.4756391	total: 4.01s	remaining: 26.6s
131:	learn: 9.4556030	total: 4.02s	remaining: 26.4s
132:	learn: 9.4339458	total: 4.11s	remaining: 26.8s
133:	learn: 9.4180767	total: 4.11s	remaining: 26.6s
134:	learn: 9.3869510	total: 4.11s	remaining: 26.4s
135:	learn: 9.3653832	total: 4.21s	remaining: 26.7s
136:	learn: 9.3517660	total: 4.21s	remaining: 26.5s
137:	learn: 9.3351168	total: 4.21s	remaining: 26.3s
138:	learn: 9.3120085	total: 4.3s	remaining: 26.6s
139:	learn: 9.3009600	total: 4.3s	remaining: 26.4s
140:	learn: 9.2879247	total: 4.31s	remaining: 26.2s
141:	learn: 9.2735023	total: 4.31s	remaining: 26.1s
142:	learn: 9.2663041	total: 4.4s	remaining: 26.4s
143:	learn: 9.2520684	total: 4.4s	remaining: 26.2s
144:	learn: 9.2454099	total: 4.41s	remaining: 26s
145:	learn: 9.2321574	total: 4.5s	remaining: 26.3s
146:	learn: 9.2057785	total: 4.5s	remaining: 26.1s
147:	learn: 9.1961745	total: 4.5s	remaining: 25.9s
148:	learn: 9.1858393	total: 4.59s	remaining: 26.2s
149:	learn: 9.1656653	total: 4.6s	remaining: 26.1s
150:	learn: 9.1541371	total: 4.6s	remaining: 25.9s
151:	learn: 9.1458134	total: 4.61s	remaining: 25.7s
152:	learn: 9.1323218	total: 4.69s	remaining: 26s
153:	learn: 9.1216359	total: 4.7s	remaining: 25.8s
154:	learn: 9.1018525	total: 4.7s	remaining: 25.6s
155:	learn: 9.0940148	total: 4.79s	remaining: 25.9s
156:	learn: 9.0703789	total: 4.8s	remaining: 25.8s
157:	learn: 9.0574355	total: 4.8s	remaining: 25.6s
158:	learn: 9.0451843	total: 4.89s	remaining: 25.9s
159:	learn: 9.0361331	total: 4.89s	remaining: 25.7s
160:	learn: 9.0291348	total: 4.9s	remaining: 25.5s
161:	learn: 9.0149437	total: 4.9s	remaining: 25.4s
162:	learn: 8.9929284	total: 4.99s	remaining: 25.6s
163:	learn: 8.9713533	total: 4.99s	remaining: 25.5s
164:	learn: 8.9608889	total: 5s	remaining: 25.3s
165:	learn: 8.9515992	total: 5.09s	remaining: 25.6s
166:	learn: 8.9419995	total: 5.09s	remaining: 25.4s
167:	learn: 8.9312574	total: 5.1s	remaining: 25.2s
168:	learn: 8.9255253	total: 5.19s	remaining: 25.5s
169:	learn: 8.9152933	total: 5.19s	remaining: 25.3s
170:	learn: 8.8927612	total: 5.19s	remaining: 25.2s
171:	learn: 8.8764705	total: 5.28s	remaining: 25.4s
172:	learn: 8.8672237	total: 5.29s	remaining: 25.3s
173:	learn: 8.8584966	total: 5.29s	remaining: 25.1s

174:	learn: 8.8425717	total: 5.38s	remaining: 25.4s
175:	learn: 8.8265780	total: 5.38s	remaining: 25.2s
176:	learn: 8.8164699	total: 5.39s	remaining: 25.1s
177:	learn: 8.8019437	total: 5.48s	remaining: 25.3s
178:	learn: 8.7876311	total: 5.48s	remaining: 25.1s
179:	learn: 8.7771716	total: 5.49s	remaining: 25s
180:	learn: 8.7707475	total: 5.57s	remaining: 25.2s
181:	learn: 8.7661443	total: 5.58s	remaining: 25.1s
182:	learn: 8.7577063	total: 5.58s	remaining: 24.9s
183:	learn: 8.7485790	total: 5.59s	remaining: 24.8s
184:	learn: 8.7294656	total: 5.68s	remaining: 25s
185:	learn: 8.7109276	total: 5.68s	remaining: 24.9s
186:	learn: 8.6988497	total: 5.68s	remaining: 24.7s
187:	learn: 8.6846924	total: 5.77s	remaining: 24.9s
188:	learn: 8.6800783	total: 5.78s	remaining: 24.8s
189:	learn: 8.6731965	total: 5.78s	remaining: 24.7s
190:	learn: 8.6626102	total: 5.87s	remaining: 24.9s
191:	learn: 8.6492973	total: 5.88s	remaining: 24.7s
192:	learn: 8.6369898	total: 5.88s	remaining: 24.6s
193:	learn: 8.6300548	total: 5.97s	remaining: 24.8s
194:	learn: 8.6192036	total: 5.97s	remaining: 24.7s
195:	learn: 8.6105680	total: 5.98s	remaining: 24.5s
196:	learn: 8.6040654	total: 6.07s	remaining: 24.7s
197:	learn: 8.5908923	total: 6.07s	remaining: 24.6s
198:	learn: 8.5854072	total: 6.07s	remaining: 24.4s
199:	learn: 8.5758405	total: 6.08s	remaining: 24.3s
200:	learn: 8.5595139	total: 6.17s	remaining: 24.5s
201:	learn: 8.5510567	total: 6.17s	remaining: 24.4s
202:	learn: 8.5401125	total: 6.17s	remaining: 24.2s
203:	learn: 8.5334558	total: 6.26s	remaining: 24.4s
204:	learn: 8.5277236	total: 6.27s	remaining: 24.3s
205:	learn: 8.5105170	total: 6.27s	remaining: 24.2s
206:	learn: 8.4929949	total: 6.36s	remaining: 24.4s
207:	learn: 8.4795837	total: 6.37s	remaining: 24.2s
208:	learn: 8.4655555	total: 6.37s	remaining: 24.1s
209:	learn: 8.4539404	total: 6.46s	remaining: 24.3s
210:	learn: 8.4435466	total: 6.46s	remaining: 24.2s
211:	learn: 8.4318754	total: 6.47s	remaining: 24s
212:	learn: 8.4207238	total: 6.56s	remaining: 24.2s
213:	learn: 8.4019197	total: 6.56s	remaining: 24.1s
214:	learn: 8.3935946	total: 6.57s	remaining: 24s
215:	learn: 8.3819854	total: 6.57s	remaining: 23.8s
216:	learn: 8.3673001	total: 6.66s	remaining: 24s
217:	learn: 8.3561296	total: 6.66s	remaining: 23.9s
218:	learn: 8.3456027	total: 6.67s	remaining: 23.8s
219:	learn: 8.3388483	total: 6.76s	remaining: 24s
220:	learn: 8.3241471	total: 6.76s	remaining: 23.8s
221:	learn: 8.3151650	total: 6.76s	remaining: 23.7s
222:	learn: 8.2970264	total: 6.85s	remaining: 23.9s
223:	learn: 8.2809992	total: 6.86s	remaining: 23.8s
224:	learn: 8.2672431	total: 6.86s	remaining: 23.6s
225:	learn: 8.2517356	total: 6.95s	remaining: 23.8s
226:	learn: 8.2416410	total: 6.96s	remaining: 23.7s
227:	learn: 8.2268481	total: 6.96s	remaining: 23.6s
228:	learn: 8.2090944	total: 7.05s	remaining: 23.7s
229:	learn: 8.1943121	total: 7.05s	remaining: 23.6s
230:	learn: 8.1809709	total: 7.06s	remaining: 23.5s
231:	learn: 8.1760361	total: 7.15s	remaining: 23.7s
232:	learn: 8.1677869	total: 7.15s	remaining: 23.5s
233:	learn: 8.1559229	total: 7.16s	remaining: 23.4s
234:	learn: 8.1413083	total: 7.25s	remaining: 23.6s

235:	learn: 8.1254846	total: 7.25s	remaining: 23.5s
236:	learn: 8.1068383	total: 7.25s	remaining: 23.4s
237:	learn: 8.1011888	total: 7.34s	remaining: 23.5s
238:	learn: 8.0897074	total: 7.35s	remaining: 23.4s
239:	learn: 8.0683115	total: 7.35s	remaining: 23.3s
240:	learn: 8.0636987	total: 7.44s	remaining: 23.4s
241:	learn: 8.0584061	total: 7.45s	remaining: 23.3s
242:	learn: 8.0462090	total: 7.45s	remaining: 23.2s
243:	learn: 8.0328586	total: 7.46s	remaining: 23.1s
244:	learn: 8.0158829	total: 7.54s	remaining: 23.2s
245:	learn: 8.0077986	total: 7.55s	remaining: 23.1s
246:	learn: 7.9824941	total: 7.55s	remaining: 23s
247:	learn: 7.9684251	total: 7.64s	remaining: 23.2s
248:	learn: 7.9500935	total: 7.64s	remaining: 23.1s
249:	learn: 7.9317285	total: 7.65s	remaining: 22.9s
250:	learn: 7.9208411	total: 7.74s	remaining: 23.1s
251:	learn: 7.9045322	total: 7.74s	remaining: 23s
252:	learn: 7.8983400	total: 7.75s	remaining: 22.9s
253:	learn: 7.8764893	total: 7.84s	remaining: 23s
254:	learn: 7.8640750	total: 7.84s	remaining: 22.9s
255:	learn: 7.8502762	total: 7.84s	remaining: 22.8s
256:	learn: 7.8436224	total: 7.93s	remaining: 22.9s
257:	learn: 7.8354076	total: 7.94s	remaining: 22.8s
258:	learn: 7.8295397	total: 7.95s	remaining: 22.7s
259:	learn: 7.8063165	total: 8.03s	remaining: 22.9s
260:	learn: 7.7878580	total: 8.04s	remaining: 22.8s
261:	learn: 7.7651699	total: 8.04s	remaining: 22.6s
262:	learn: 7.7488385	total: 8.13s	remaining: 22.8s
263:	learn: 7.7351400	total: 8.13s	remaining: 22.7s
264:	learn: 7.7233450	total: 8.14s	remaining: 22.6s
265:	learn: 7.7188080	total: 8.22s	remaining: 22.7s
266:	learn: 7.7075946	total: 8.23s	remaining: 22.6s
267:	learn: 7.6939006	total: 8.23s	remaining: 22.5s
268:	learn: 7.6839715	total: 8.32s	remaining: 22.6s
269:	learn: 7.6795822	total: 8.33s	remaining: 22.5s
270:	learn: 7.6680449	total: 8.33s	remaining: 22.4s
271:	learn: 7.6589139	total: 8.34s	remaining: 22.3s
272:	learn: 7.6480261	total: 8.42s	remaining: 22.4s
273:	learn: 7.6360695	total: 8.43s	remaining: 22.3s
274:	learn: 7.6236179	total: 8.43s	remaining: 22.2s
275:	learn: 7.6089643	total: 8.52s	remaining: 22.4s
276:	learn: 7.6043764	total: 8.53s	remaining: 22.3s
277:	learn: 7.6000986	total: 8.53s	remaining: 22.2s
278:	learn: 7.5895916	total: 8.62s	remaining: 22.3s
279:	learn: 7.5720817	total: 8.62s	remaining: 22.2s
280:	learn: 7.5634040	total: 8.63s	remaining: 22.1s
281:	learn: 7.5573196	total: 8.71s	remaining: 22.2s
282:	learn: 7.5423678	total: 8.72s	remaining: 22.1s
283:	learn: 7.5308409	total: 8.72s	remaining: 22s
284:	learn: 7.5250831	total: 8.81s	remaining: 22.1s
285:	learn: 7.5120635	total: 8.82s	remaining: 22s
286:	learn: 7.4984360	total: 8.82s	remaining: 21.9s
287:	learn: 7.4719502	total: 8.9s	remaining: 22s
288:	learn: 7.4679930	total: 8.91s	remaining: 21.9s
289:	learn: 7.4518467	total: 8.91s	remaining: 21.8s
290:	learn: 7.4435254	total: 8.92s	remaining: 21.7s
291:	learn: 7.4280925	total: 9s	remaining: 21.8s
292:	learn: 7.4234831	total: 9.01s	remaining: 21.7s
293:	learn: 7.4025838	total: 9.01s	remaining: 21.6s
294:	learn: 7.3888273	total: 9.1s	remaining: 21.8s
295:	learn: 7.3651418	total: 9.11s	remaining: 21.7s

296:	learn: 7.3507654	total: 9.11s	remaining: 21.6s
297:	learn: 7.3406411	total: 9.2s	remaining: 21.7s
298:	learn: 7.3263923	total: 9.2s	remaining: 21.6s
299:	learn: 7.3199040	total: 9.21s	remaining: 21.5s
300:	learn: 7.3129723	total: 9.3s	remaining: 21.6s
301:	learn: 7.3075430	total: 9.3s	remaining: 21.5s
302:	learn: 7.2883889	total: 9.3s	remaining: 21.4s
303:	learn: 7.2797975	total: 9.39s	remaining: 21.5s
304:	learn: 7.2703760	total: 9.4s	remaining: 21.4s
305:	learn: 7.2574371	total: 9.4s	remaining: 21.3s
306:	learn: 7.2475718	total: 9.49s	remaining: 21.4s
307:	learn: 7.2440702	total: 9.5s	remaining: 21.3s
308:	learn: 7.2378493	total: 9.5s	remaining: 21.2s
309:	learn: 7.2336785	total: 9.59s	remaining: 21.3s
310:	learn: 7.2270872	total: 9.6s	remaining: 21.3s
311:	learn: 7.2162962	total: 9.6s	remaining: 21.2s
312:	learn: 7.2138018	total: 9.69s	remaining: 21.3s
313:	learn: 7.2114845	total: 9.69s	remaining: 21.2s
314:	learn: 7.1998552	total: 9.7s	remaining: 21.1s
315:	learn: 7.1974577	total: 9.71s	remaining: 21s
316:	learn: 7.1808105	total: 9.79s	remaining: 21.1s
317:	learn: 7.1765245	total: 9.79s	remaining: 21s
318:	learn: 7.1632613	total: 9.8s	remaining: 20.9s
319:	learn: 7.1358768	total: 9.89s	remaining: 21s
320:	learn: 7.1223158	total: 9.89s	remaining: 20.9s
321:	learn: 7.1059099	total: 9.89s	remaining: 20.8s
322:	learn: 7.0954899	total: 9.98s	remaining: 20.9s
323:	learn: 7.0855439	total: 9.99s	remaining: 20.8s
324:	learn: 7.0730131	total: 9.99s	remaining: 20.8s
325:	learn: 7.0707601	total: 10.1s	remaining: 20.8s
326:	learn: 7.0435475	total: 10.1s	remaining: 20.8s
327:	learn: 7.0406408	total: 10.1s	remaining: 20.7s
328:	learn: 7.0297174	total: 10.2s	remaining: 20.8s
329:	learn: 7.0240300	total: 10.2s	remaining: 20.7s
330:	learn: 7.0160351	total: 10.2s	remaining: 20.6s
331:	learn: 7.0104721	total: 10.3s	remaining: 20.7s
332:	learn: 6.9956812	total: 10.3s	remaining: 20.6s
333:	learn: 6.9841197	total: 10.3s	remaining: 20.5s
334:	learn: 6.9673955	total: 10.4s	remaining: 20.6s
335:	learn: 6.9638112	total: 10.4s	remaining: 20.5s
336:	learn: 6.9594452	total: 10.4s	remaining: 20.4s
337:	learn: 6.9504034	total: 10.5s	remaining: 20.5s
338:	learn: 6.9395704	total: 10.5s	remaining: 20.4s
339:	learn: 6.9279142	total: 10.5s	remaining: 20.4s
340:	learn: 6.9170509	total: 10.6s	remaining: 20.4s
341:	learn: 6.9071453	total: 10.6s	remaining: 20.4s
342:	learn: 6.8965379	total: 10.6s	remaining: 20.3s
343:	learn: 6.8814420	total: 10.7s	remaining: 20.4s
344:	learn: 6.8756073	total: 10.7s	remaining: 20.3s
345:	learn: 6.8692483	total: 10.7s	remaining: 20.2s
346:	learn: 6.8599971	total: 10.8s	remaining: 20.3s
347:	learn: 6.8454405	total: 10.8s	remaining: 20.2s
348:	learn: 6.8316573	total: 10.8s	remaining: 20.1s
349:	learn: 6.8298712	total: 10.9s	remaining: 20.2s
350:	learn: 6.8229056	total: 10.9s	remaining: 20.1s
351:	learn: 6.8176070	total: 10.9s	remaining: 20s
352:	learn: 6.7989433	total: 11s	remaining: 20.1s
353:	learn: 6.7930557	total: 11s	remaining: 20s
354:	learn: 6.7839561	total: 11s	remaining: 19.9s
355:	learn: 6.7741902	total: 11.1s	remaining: 20s
356:	learn: 6.7591968	total: 11.1s	remaining: 19.9s

357:	learn: 6.7488314	total: 11.1s	remaining: 19.9s
358:	learn: 6.7471246	total: 11.1s	remaining: 19.8s
359:	learn: 6.7339457	total: 11.2s	remaining: 19.8s
360:	learn: 6.7320694	total: 11.2s	remaining: 19.8s
361:	learn: 6.7301575	total: 11.3s	remaining: 19.8s
362:	learn: 6.7156501	total: 11.3s	remaining: 19.8s
363:	learn: 6.7035347	total: 11.3s	remaining: 19.7s
364:	learn: 6.6899009	total: 11.4s	remaining: 19.8s
365:	learn: 6.6873074	total: 11.4s	remaining: 19.7s
366:	learn: 6.6787176	total: 11.4s	remaining: 19.6s
367:	learn: 6.6770977	total: 11.5s	remaining: 19.7s
368:	learn: 6.6636983	total: 11.5s	remaining: 19.6s
369:	learn: 6.6602886	total: 11.5s	remaining: 19.5s
370:	learn: 6.6588430	total: 11.6s	remaining: 19.6s
371:	learn: 6.6532885	total: 11.6s	remaining: 19.5s
372:	learn: 6.6430265	total: 11.6s	remaining: 19.4s
373:	learn: 6.6400290	total: 11.6s	remaining: 19.4s
374:	learn: 6.6293326	total: 11.7s	remaining: 19.4s
375:	learn: 6.6217839	total: 11.7s	remaining: 19.3s
376:	learn: 6.6201599	total: 11.7s	remaining: 19.3s
377:	learn: 6.6056295	total: 11.8s	remaining: 19.3s
378:	learn: 6.6041225	total: 11.8s	remaining: 19.3s
379:	learn: 6.5871077	total: 11.8s	remaining: 19.2s
380:	learn: 6.5708883	total: 11.8s	remaining: 19.2s
381:	learn: 6.5565788	total: 11.9s	remaining: 19.2s
382:	learn: 6.5454057	total: 11.9s	remaining: 19.1s
383:	learn: 6.5437141	total: 11.9s	remaining: 19.2s
384:	learn: 6.5282076	total: 12s	remaining: 19.1s
385:	learn: 6.5246410	total: 12s	remaining: 19s
386:	learn: 6.5105655	total: 12s	remaining: 19.1s
387:	learn: 6.5004289	total: 12s	remaining: 19s
388:	learn: 6.4834302	total: 12.1s	remaining: 18.9s
389:	learn: 6.4763537	total: 12.1s	remaining: 19s
390:	learn: 6.4742179	total: 12.1s	remaining: 18.9s
391:	learn: 6.4561774	total: 12.1s	remaining: 18.8s
392:	learn: 6.4450705	total: 12.2s	remaining: 18.9s
393:	learn: 6.4436155	total: 12.2s	remaining: 18.8s
394:	learn: 6.4325895	total: 12.2s	remaining: 18.8s
395:	learn: 6.4201071	total: 12.3s	remaining: 18.8s
396:	learn: 6.4183904	total: 12.3s	remaining: 18.7s
397:	learn: 6.3999249	total: 12.3s	remaining: 18.7s
398:	learn: 6.3988133	total: 12.4s	remaining: 18.7s
399:	learn: 6.3915696	total: 12.4s	remaining: 18.7s
400:	learn: 6.3826642	total: 12.4s	remaining: 18.6s
401:	learn: 6.3747501	total: 12.5s	remaining: 18.6s
402:	learn: 6.3686822	total: 12.5s	remaining: 18.6s
403:	learn: 6.3573190	total: 12.5s	remaining: 18.5s
404:	learn: 6.3460982	total: 12.6s	remaining: 18.6s
405:	learn: 6.3447635	total: 12.6s	remaining: 18.5s
406:	learn: 6.3304235	total: 12.6s	remaining: 18.4s
407:	learn: 6.3208614	total: 12.7s	remaining: 18.5s
408:	learn: 6.3118060	total: 12.7s	remaining: 18.4s
409:	learn: 6.2987535	total: 12.7s	remaining: 18.3s
410:	learn: 6.2831969	total: 12.7s	remaining: 18.3s
411:	learn: 6.2818119	total: 12.8s	remaining: 18.3s
412:	learn: 6.2644598	total: 12.8s	remaining: 18.2s
413:	learn: 6.2569685	total: 12.8s	remaining: 18.2s
414:	learn: 6.2486480	total: 12.9s	remaining: 18.2s
415:	learn: 6.2362176	total: 12.9s	remaining: 18.2s
416:	learn: 6.2288569	total: 12.9s	remaining: 18.1s
417:	learn: 6.2177061	total: 13s	remaining: 18.1s

418:	learn: 6.2036716	total: 13s	remaining: 18.1s
419:	learn: 6.1953340	total: 13s	remaining: 18s
420:	learn: 6.1858842	total: 13.1s	remaining: 18s
421:	learn: 6.1844580	total: 13.1s	remaining: 18s
422:	learn: 6.1759144	total: 13.1s	remaining: 17.9s
423:	learn: 6.1658152	total: 13.1s	remaining: 17.8s
424:	learn: 6.1502436	total: 13.2s	remaining: 17.9s
425:	learn: 6.1453253	total: 13.2s	remaining: 17.8s
426:	learn: 6.1372862	total: 13.3s	remaining: 17.9s
427:	learn: 6.1261313	total: 13.3s	remaining: 17.8s
428:	learn: 6.1161995	total: 13.3s	remaining: 17.7s
429:	learn: 6.1086652	total: 13.3s	remaining: 17.7s
430:	learn: 6.1073836	total: 13.4s	remaining: 17.7s
431:	learn: 6.0964596	total: 13.4s	remaining: 17.6s
432:	learn: 6.0859252	total: 13.4s	remaining: 17.6s
433:	learn: 6.0736340	total: 13.5s	remaining: 17.6s
434:	learn: 6.0658527	total: 13.5s	remaining: 17.6s
435:	learn: 6.0554778	total: 13.5s	remaining: 17.5s
436:	learn: 6.0414998	total: 13.6s	remaining: 17.5s
437:	learn: 6.0342390	total: 13.6s	remaining: 17.5s
438:	learn: 6.0269727	total: 13.6s	remaining: 17.4s
439:	learn: 6.0147496	total: 13.7s	remaining: 17.4s
440:	learn: 6.0026701	total: 13.7s	remaining: 17.4s
441:	learn: 6.0014754	total: 13.7s	remaining: 17.3s
442:	learn: 5.9929452	total: 13.8s	remaining: 17.4s
443:	learn: 5.9788962	total: 13.8s	remaining: 17.3s
444:	learn: 5.9635281	total: 13.8s	remaining: 17.2s
445:	learn: 5.9623293	total: 13.9s	remaining: 17.3s
446:	learn: 5.9519885	total: 13.9s	remaining: 17.2s
447:	learn: 5.9381886	total: 13.9s	remaining: 17.1s
448:	learn: 5.9265758	total: 14s	remaining: 17.2s
449:	learn: 5.9120730	total: 14s	remaining: 17.1s
450:	learn: 5.9003585	total: 14s	remaining: 17.1s
451:	learn: 5.8897517	total: 14.1s	remaining: 17.1s
452:	learn: 5.8829624	total: 14.1s	remaining: 17s
453:	learn: 5.8630854	total: 14.1s	remaining: 17s
454:	learn: 5.8470568	total: 14.2s	remaining: 17s
455:	learn: 5.8326043	total: 14.2s	remaining: 16.9s
456:	learn: 5.8248998	total: 14.2s	remaining: 16.9s
457:	learn: 5.8127884	total: 14.3s	remaining: 16.9s
458:	learn: 5.8065214	total: 14.3s	remaining: 16.9s
459:	learn: 5.8048663	total: 14.3s	remaining: 16.8s
460:	learn: 5.7959530	total: 14.4s	remaining: 16.8s
461:	learn: 5.7839287	total: 14.4s	remaining: 16.8s
462:	learn: 5.7725005	total: 14.4s	remaining: 16.7s
463:	learn: 5.7545015	total: 14.4s	remaining: 16.6s
464:	learn: 5.7475543	total: 14.5s	remaining: 16.7s
465:	learn: 5.7351543	total: 14.5s	remaining: 16.6s
466:	learn: 5.7244054	total: 14.5s	remaining: 16.6s
467:	learn: 5.7105423	total: 14.6s	remaining: 16.6s
468:	learn: 5.6985978	total: 14.6s	remaining: 16.5s
469:	learn: 5.6867188	total: 14.7s	remaining: 16.6s
470:	learn: 5.6782319	total: 14.7s	remaining: 16.5s
471:	learn: 5.6760368	total: 14.7s	remaining: 16.4s
472:	learn: 5.6631797	total: 14.7s	remaining: 16.4s
473:	learn: 5.6613579	total: 14.8s	remaining: 16.4s
474:	learn: 5.6606279	total: 14.8s	remaining: 16.4s
475:	learn: 5.6542933	total: 14.8s	remaining: 16.3s
476:	learn: 5.6450757	total: 14.9s	remaining: 16.3s
477:	learn: 5.6262133	total: 14.9s	remaining: 16.3s
478:	learn: 5.6251355	total: 14.9s	remaining: 16.2s

479:	learn: 5.6128207	total: 15s	remaining: 16.2s
480:	learn: 5.6034835	total: 15s	remaining: 16.2s
481:	learn: 5.5971759	total: 15s	remaining: 16.1s
482:	learn: 5.5911987	total: 15.1s	remaining: 16.1s
483:	learn: 5.5782539	total: 15.1s	remaining: 16.1s
484:	learn: 5.5664765	total: 15.1s	remaining: 16s
485:	learn: 5.5543532	total: 15.2s	remaining: 16.1s
486:	learn: 5.5439493	total: 15.2s	remaining: 16s
487:	learn: 5.5322751	total: 15.2s	remaining: 15.9s
488:	learn: 5.5183088	total: 15.3s	remaining: 16s
489:	learn: 5.5109349	total: 15.3s	remaining: 15.9s
490:	learn: 5.5032560	total: 15.3s	remaining: 15.8s
491:	learn: 5.4935521	total: 15.4s	remaining: 15.9s
492:	learn: 5.4840576	total: 15.4s	remaining: 15.8s
493:	learn: 5.4736066	total: 15.4s	remaining: 15.8s
494:	learn: 5.4632293	total: 15.4s	remaining: 15.7s
495:	learn: 5.4560987	total: 15.5s	remaining: 15.7s
496:	learn: 5.4473116	total: 15.5s	remaining: 15.7s
497:	learn: 5.4356290	total: 15.5s	remaining: 15.6s
498:	learn: 5.4284653	total: 15.6s	remaining: 15.6s
499:	learn: 5.4218555	total: 15.6s	remaining: 15.6s
500:	learn: 5.4179872	total: 15.6s	remaining: 15.5s
501:	learn: 5.4104905	total: 15.6s	remaining: 15.5s
502:	learn: 5.4005709	total: 15.7s	remaining: 15.5s
503:	learn: 5.3920294	total: 15.7s	remaining: 15.4s
504:	learn: 5.3818098	total: 15.7s	remaining: 15.4s
505:	learn: 5.3758263	total: 15.8s	remaining: 15.4s
506:	learn: 5.3689609	total: 15.8s	remaining: 15.3s
507:	learn: 5.3583475	total: 15.8s	remaining: 15.3s
508:	learn: 5.3489397	total: 15.9s	remaining: 15.3s
509:	learn: 5.3478906	total: 15.9s	remaining: 15.3s
510:	learn: 5.3405650	total: 15.9s	remaining: 15.2s
511:	learn: 5.3335775	total: 16s	remaining: 15.2s
512:	learn: 5.3234241	total: 16s	remaining: 15.2s
513:	learn: 5.3222024	total: 16s	remaining: 15.1s
514:	learn: 5.3082840	total: 16.1s	remaining: 15.1s
515:	learn: 5.3017697	total: 16.1s	remaining: 15.1s
516:	learn: 5.3008024	total: 16.1s	remaining: 15s
517:	learn: 5.2859399	total: 16.2s	remaining: 15s
518:	learn: 5.2774783	total: 16.2s	remaining: 15s
519:	learn: 5.2705891	total: 16.2s	remaining: 14.9s
520:	learn: 5.2697159	total: 16.3s	remaining: 14.9s
521:	learn: 5.2613074	total: 16.3s	remaining: 14.9s
522:	learn: 5.2544555	total: 16.3s	remaining: 14.8s
523:	learn: 5.2425497	total: 16.3s	remaining: 14.8s
524:	learn: 5.2340164	total: 16.4s	remaining: 14.8s
525:	learn: 5.2302098	total: 16.4s	remaining: 14.7s
526:	learn: 5.2187460	total: 16.4s	remaining: 14.7s
527:	learn: 5.2108126	total: 16.5s	remaining: 14.7s
528:	learn: 5.2072692	total: 16.5s	remaining: 14.7s
529:	learn: 5.1976820	total: 16.5s	remaining: 14.6s
530:	learn: 5.1861727	total: 16.6s	remaining: 14.6s
531:	learn: 5.1761475	total: 16.6s	remaining: 14.6s
532:	learn: 5.1711172	total: 16.6s	remaining: 14.5s
533:	learn: 5.1637511	total: 16.7s	remaining: 14.5s
534:	learn: 5.1520894	total: 16.7s	remaining: 14.5s
535:	learn: 5.1414041	total: 16.7s	remaining: 14.4s
536:	learn: 5.1303989	total: 16.7s	remaining: 14.4s
537:	learn: 5.1295847	total: 16.8s	remaining: 14.4s
538:	learn: 5.1205501	total: 16.8s	remaining: 14.3s
539:	learn: 5.1108136	total: 16.8s	remaining: 14.3s

540:	learn: 5.0988301	total: 16.9s	remaining: 14.3s
541:	learn: 5.0884211	total: 16.9s	remaining: 14.2s
542:	learn: 5.0800236	total: 16.9s	remaining: 14.3s
543:	learn: 5.0731867	total: 16.9s	remaining: 14.2s
544:	learn: 5.0608875	total: 17s	remaining: 14.2s
545:	learn: 5.0600976	total: 17s	remaining: 14.2s
546:	learn: 5.0544753	total: 17s	remaining: 14.1s
547:	learn: 5.0460172	total: 17.1s	remaining: 14.1s
548:	learn: 5.0405734	total: 17.1s	remaining: 14s
549:	learn: 5.0306982	total: 17.1s	remaining: 14s
550:	learn: 5.0233354	total: 17.1s	remaining: 14s
551:	learn: 5.0166760	total: 17.2s	remaining: 13.9s
552:	learn: 5.0032628	total: 17.2s	remaining: 13.9s
553:	learn: 4.9903066	total: 17.2s	remaining: 13.9s
554:	learn: 4.9849551	total: 17.2s	remaining: 13.8s
555:	learn: 4.9842385	total: 17.3s	remaining: 13.8s
556:	learn: 4.9736154	total: 17.3s	remaining: 13.8s
557:	learn: 4.9728417	total: 17.3s	remaining: 13.7s
558:	learn: 4.9671194	total: 17.3s	remaining: 13.7s
559:	learn: 4.9609767	total: 17.4s	remaining: 13.7s
560:	learn: 4.9527134	total: 17.4s	remaining: 13.6s
561:	learn: 4.9461592	total: 17.4s	remaining: 13.6s
562:	learn: 4.9401004	total: 17.5s	remaining: 13.6s
563:	learn: 4.9313848	total: 17.5s	remaining: 13.6s
564:	learn: 4.9254836	total: 17.5s	remaining: 13.5s
565:	learn: 4.9140610	total: 17.6s	remaining: 13.5s
566:	learn: 4.9074991	total: 17.6s	remaining: 13.5s
567:	learn: 4.9006309	total: 17.6s	remaining: 13.4s
568:	learn: 4.8950737	total: 17.7s	remaining: 13.4s
569:	learn: 4.8836697	total: 17.7s	remaining: 13.4s
570:	learn: 4.8747439	total: 17.7s	remaining: 13.3s
571:	learn: 4.8691933	total: 17.8s	remaining: 13.3s
572:	learn: 4.8623272	total: 17.8s	remaining: 13.3s
573:	learn: 4.8569463	total: 17.8s	remaining: 13.2s
574:	learn: 4.8500926	total: 17.9s	remaining: 13.2s
575:	learn: 4.8398039	total: 17.9s	remaining: 13.2s
576:	learn: 4.8341493	total: 17.9s	remaining: 13.1s
577:	learn: 4.8248280	total: 18s	remaining: 13.2s
578:	learn: 4.8241722	total: 18s	remaining: 13.1s
579:	learn: 4.8161326	total: 18s	remaining: 13.1s
580:	learn: 4.8101768	total: 18.1s	remaining: 13.1s
581:	learn: 4.8005298	total: 18.1s	remaining: 13s
582:	learn: 4.7923621	total: 18.1s	remaining: 13s
583:	learn: 4.7819385	total: 18.2s	remaining: 13s
584:	learn: 4.7686405	total: 18.2s	remaining: 12.9s
585:	learn: 4.7591067	total: 18.2s	remaining: 12.9s
586:	learn: 4.7540715	total: 18.2s	remaining: 12.8s
587:	learn: 4.7534773	total: 18.3s	remaining: 12.8s
588:	learn: 4.7492111	total: 18.3s	remaining: 12.8s
589:	learn: 4.7484510	total: 18.3s	remaining: 12.7s
590:	learn: 4.7449078	total: 18.4s	remaining: 12.7s
591:	learn: 4.7371564	total: 18.4s	remaining: 12.7s
592:	learn: 4.7282338	total: 18.4s	remaining: 12.6s
593:	learn: 4.7221142	total: 18.5s	remaining: 12.7s
594:	learn: 4.7163460	total: 18.5s	remaining: 12.6s
595:	learn: 4.7085953	total: 18.5s	remaining: 12.6s
596:	learn: 4.6954535	total: 18.6s	remaining: 12.6s
597:	learn: 4.6905944	total: 18.6s	remaining: 12.5s
598:	learn: 4.6821265	total: 18.6s	remaining: 12.5s
599:	learn: 4.6772203	total: 18.7s	remaining: 12.5s
600:	learn: 4.6658754	total: 18.7s	remaining: 12.4s

601:	learn: 4.6594836	total: 18.7s	remaining: 12.4s
602:	learn: 4.6490270	total: 18.8s	remaining: 12.4s
603:	learn: 4.6369854	total: 18.8s	remaining: 12.3s
604:	learn: 4.6296037	total: 18.8s	remaining: 12.3s
605:	learn: 4.6203373	total: 18.9s	remaining: 12.3s
606:	learn: 4.6152126	total: 18.9s	remaining: 12.2s
607:	learn: 4.6064921	total: 18.9s	remaining: 12.2s
608:	learn: 4.5957357	total: 19s	remaining: 12.2s
609:	learn: 4.5877873	total: 19s	remaining: 12.2s
610:	learn: 4.5827702	total: 19s	remaining: 12.1s
611:	learn: 4.5736543	total: 19.1s	remaining: 12.1s
612:	learn: 4.5682395	total: 19.1s	remaining: 12.1s
613:	learn: 4.5584147	total: 19.1s	remaining: 12s
614:	learn: 4.5511482	total: 19.2s	remaining: 12s
615:	learn: 4.5452284	total: 19.2s	remaining: 12s
616:	learn: 4.5350718	total: 19.2s	remaining: 11.9s
617:	learn: 4.5289704	total: 19.3s	remaining: 11.9s
618:	learn: 4.5210230	total: 19.3s	remaining: 11.9s
619:	learn: 4.5204716	total: 19.3s	remaining: 11.8s
620:	learn: 4.5122828	total: 19.3s	remaining: 11.8s
621:	learn: 4.5039050	total: 19.4s	remaining: 11.8s
622:	learn: 4.4949333	total: 19.4s	remaining: 11.7s
623:	learn: 4.4872937	total: 19.4s	remaining: 11.7s
624:	learn: 4.4825795	total: 19.5s	remaining: 11.7s
625:	learn: 4.4757284	total: 19.5s	remaining: 11.7s
626:	learn: 4.4681282	total: 19.5s	remaining: 11.6s
627:	learn: 4.4621119	total: 19.6s	remaining: 11.6s
628:	learn: 4.4580331	total: 19.6s	remaining: 11.6s
629:	learn: 4.4500217	total: 19.6s	remaining: 11.5s
630:	learn: 4.4442383	total: 19.7s	remaining: 11.5s
631:	learn: 4.4341868	total: 19.7s	remaining: 11.5s
632:	learn: 4.4265138	total: 19.7s	remaining: 11.4s
633:	learn: 4.4230695	total: 19.8s	remaining: 11.4s
634:	learn: 4.4174474	total: 19.8s	remaining: 11.4s
635:	learn: 4.4068278	total: 19.8s	remaining: 11.3s
636:	learn: 4.4060501	total: 19.9s	remaining: 11.3s
637:	learn: 4.3973992	total: 19.9s	remaining: 11.3s
638:	learn: 4.3909766	total: 19.9s	remaining: 11.2s
639:	learn: 4.3850193	total: 19.9s	remaining: 11.2s
640:	learn: 4.3791385	total: 20s	remaining: 11.2s
641:	learn: 4.3752682	total: 20s	remaining: 11.1s
642:	learn: 4.3677816	total: 20s	remaining: 11.1s
643:	learn: 4.3535719	total: 20.1s	remaining: 11.1s
644:	learn: 4.3492629	total: 20.1s	remaining: 11.1s
645:	learn: 4.3403040	total: 20.1s	remaining: 11s
646:	learn: 4.3392855	total: 20.2s	remaining: 11s
647:	learn: 4.3271639	total: 20.2s	remaining: 11s
648:	learn: 4.3228599	total: 20.2s	remaining: 10.9s
649:	learn: 4.3169086	total: 20.3s	remaining: 10.9s
650:	learn: 4.3118243	total: 20.3s	remaining: 10.9s
651:	learn: 4.3009481	total: 20.3s	remaining: 10.8s
652:	learn: 4.2927207	total: 20.4s	remaining: 10.8s
653:	learn: 4.2849868	total: 20.4s	remaining: 10.8s
654:	learn: 4.2778347	total: 20.4s	remaining: 10.7s
655:	learn: 4.2733093	total: 20.5s	remaining: 10.7s
656:	learn: 4.2668522	total: 20.5s	remaining: 10.7s
657:	learn: 4.2634155	total: 20.5s	remaining: 10.6s
658:	learn: 4.2577947	total: 20.6s	remaining: 10.6s
659:	learn: 4.2511579	total: 20.6s	remaining: 10.6s
660:	learn: 4.2429505	total: 20.6s	remaining: 10.6s
661:	learn: 4.2404972	total: 20.6s	remaining: 10.5s

662:	learn: 4.2319449	total: 20.7s	remaining: 10.5s
663:	learn: 4.2218497	total: 20.7s	remaining: 10.5s
664:	learn: 4.2114825	total: 20.7s	remaining: 10.4s
665:	learn: 4.2047752	total: 20.8s	remaining: 10.4s
666:	learn: 4.1971192	total: 20.8s	remaining: 10.4s
667:	learn: 4.1918711	total: 20.8s	remaining: 10.3s
668:	learn: 4.1786856	total: 20.9s	remaining: 10.3s
669:	learn: 4.1729770	total: 20.9s	remaining: 10.3s
670:	learn: 4.1649330	total: 20.9s	remaining: 10.2s
671:	learn: 4.1602272	total: 21s	remaining: 10.2s
672:	learn: 4.1595642	total: 21s	remaining: 10.2s
673:	learn: 4.1513769	total: 21s	remaining: 10.1s
674:	learn: 4.1461117	total: 21.1s	remaining: 10.1s
675:	learn: 4.1414119	total: 21.1s	remaining: 10.1s
676:	learn: 4.1374931	total: 21.1s	remaining: 10.1s
677:	learn: 4.1310597	total: 21.2s	remaining: 10.1s
678:	learn: 4.1245188	total: 21.2s	remaining: 10s
679:	learn: 4.1193066	total: 21.2s	remaining: 9.96s
680:	learn: 4.1084466	total: 21.2s	remaining: 9.92s
681:	learn: 4.1061798	total: 21.3s	remaining: 9.91s
682:	learn: 4.0970231	total: 21.3s	remaining: 9.87s
683:	learn: 4.0913557	total: 21.3s	remaining: 9.83s
684:	learn: 4.0827776	total: 21.4s	remaining: 9.82s
685:	learn: 4.0750275	total: 21.4s	remaining: 9.78s
686:	learn: 4.0649254	total: 21.4s	remaining: 9.73s
687:	learn: 4.0579368	total: 21.5s	remaining: 9.73s
688:	learn: 4.0512920	total: 21.5s	remaining: 9.69s
689:	learn: 4.0500318	total: 21.5s	remaining: 9.64s
690:	learn: 4.0437714	total: 21.6s	remaining: 9.64s
691:	learn: 4.0322026	total: 21.6s	remaining: 9.6s
692:	learn: 4.0235941	total: 21.6s	remaining: 9.55s
693:	learn: 4.0197406	total: 21.7s	remaining: 9.55s
694:	learn: 4.0131383	total: 21.7s	remaining: 9.5s
695:	learn: 4.0111697	total: 21.7s	remaining: 9.46s
696:	learn: 4.0031809	total: 21.7s	remaining: 9.42s
697:	learn: 3.9956297	total: 21.8s	remaining: 9.41s
698:	learn: 3.9901476	total: 21.8s	remaining: 9.37s
699:	learn: 3.9852033	total: 21.8s	remaining: 9.33s
700:	learn: 3.9771696	total: 21.9s	remaining: 9.32s
701:	learn: 3.9700789	total: 21.9s	remaining: 9.28s
702:	learn: 3.9644944	total: 21.9s	remaining: 9.23s
703:	learn: 3.9584184	total: 21.9s	remaining: 9.23s
704:	learn: 3.9483988	total: 22s	remaining: 9.19s
705:	learn: 3.9420244	total: 22s	remaining: 9.14s
706:	learn: 3.9367045	total: 22s	remaining: 9.13s
707:	learn: 3.9300854	total: 22s	remaining: 9.09s
708:	learn: 3.9216183	total: 22.1s	remaining: 9.05s
709:	learn: 3.9192156	total: 22.1s	remaining: 9.04s
710:	learn: 3.9075398	total: 22.1s	remaining: 9s
711:	learn: 3.9014906	total: 22.2s	remaining: 8.96s
712:	learn: 3.8937647	total: 22.2s	remaining: 8.95s
713:	learn: 3.8869508	total: 22.2s	remaining: 8.91s
714:	learn: 3.8795089	total: 22.3s	remaining: 8.87s
715:	learn: 3.8745418	total: 22.3s	remaining: 8.86s
716:	learn: 3.8707664	total: 22.3s	remaining: 8.82s
717:	learn: 3.8676771	total: 22.3s	remaining: 8.78s
718:	learn: 3.8618511	total: 22.4s	remaining: 8.73s
719:	learn: 3.8567824	total: 22.4s	remaining: 8.73s
720:	learn: 3.8481294	total: 22.4s	remaining: 8.69s
721:	learn: 3.8389229	total: 22.4s	remaining: 8.64s
722:	learn: 3.8313953	total: 22.5s	remaining: 8.63s

723:	learn: 3.8251813	total: 22.5s	remaining: 8.59s
724:	learn: 3.8180663	total: 22.5s	remaining: 8.55s
725:	learn: 3.8130950	total: 22.6s	remaining: 8.54s
726:	learn: 3.8078430	total: 22.6s	remaining: 8.5s
727:	learn: 3.8073841	total: 22.6s	remaining: 8.46s
728:	learn: 3.8018612	total: 22.7s	remaining: 8.45s
729:	learn: 3.7935979	total: 22.7s	remaining: 8.41s
730:	learn: 3.7874809	total: 22.7s	remaining: 8.37s
731:	learn: 3.7819043	total: 22.8s	remaining: 8.36s
732:	learn: 3.7754515	total: 22.8s	remaining: 8.32s
733:	learn: 3.7712035	total: 22.8s	remaining: 8.28s
734:	learn: 3.7650117	total: 22.9s	remaining: 8.27s
735:	learn: 3.7585399	total: 22.9s	remaining: 8.23s
736:	learn: 3.7493530	total: 22.9s	remaining: 8.19s
737:	learn: 3.7420446	total: 23s	remaining: 8.17s
738:	learn: 3.7357064	total: 23s	remaining: 8.13s
739:	learn: 3.7274247	total: 23s	remaining: 8.09s
740:	learn: 3.7221956	total: 23.1s	remaining: 8.08s
741:	learn: 3.7155650	total: 23.1s	remaining: 8.04s
742:	learn: 3.7108727	total: 23.1s	remaining: 8s
743:	learn: 3.7043749	total: 23.1s	remaining: 7.96s
744:	learn: 3.7012322	total: 23.2s	remaining: 7.95s
745:	learn: 3.6949574	total: 23.2s	remaining: 7.91s
746:	learn: 3.6885604	total: 23.2s	remaining: 7.87s
747:	learn: 3.6868819	total: 23.3s	remaining: 7.86s
748:	learn: 3.6827719	total: 23.3s	remaining: 7.82s
749:	learn: 3.6823697	total: 23.3s	remaining: 7.78s
750:	learn: 3.6795667	total: 23.4s	remaining: 7.76s
751:	learn: 3.6700412	total: 23.4s	remaining: 7.72s
752:	learn: 3.6633448	total: 23.4s	remaining: 7.68s
753:	learn: 3.6598856	total: 23.4s	remaining: 7.64s
754:	learn: 3.6559063	total: 23.5s	remaining: 7.63s
755:	learn: 3.6518202	total: 23.5s	remaining: 7.59s
756:	learn: 3.6437882	total: 23.5s	remaining: 7.55s
757:	learn: 3.6404395	total: 23.6s	remaining: 7.54s
758:	learn: 3.6364018	total: 23.6s	remaining: 7.5s
759:	learn: 3.6293015	total: 23.6s	remaining: 7.46s
760:	learn: 3.6261404	total: 23.7s	remaining: 7.45s
761:	learn: 3.6229793	total: 23.7s	remaining: 7.41s
762:	learn: 3.6158755	total: 23.7s	remaining: 7.37s
763:	learn: 3.6086547	total: 23.8s	remaining: 7.36s
764:	learn: 3.6028908	total: 23.8s	remaining: 7.32s
765:	learn: 3.5955625	total: 23.8s	remaining: 7.28s
766:	learn: 3.5924302	total: 23.8s	remaining: 7.24s
767:	learn: 3.5875190	total: 23.9s	remaining: 7.22s
768:	learn: 3.5826606	total: 23.9s	remaining: 7.18s
769:	learn: 3.5758720	total: 23.9s	remaining: 7.14s
770:	learn: 3.5690023	total: 24s	remaining: 7.13s
771:	learn: 3.5644109	total: 24s	remaining: 7.09s
772:	learn: 3.5614028	total: 24s	remaining: 7.05s
773:	learn: 3.5573256	total: 24.1s	remaining: 7.04s
774:	learn: 3.5504916	total: 24.1s	remaining: 7s
775:	learn: 3.5425285	total: 24.1s	remaining: 6.96s
776:	learn: 3.5379537	total: 24.2s	remaining: 6.95s
777:	learn: 3.5319114	total: 24.2s	remaining: 6.91s
778:	learn: 3.5250463	total: 24.2s	remaining: 6.87s
779:	learn: 3.5209834	total: 24.3s	remaining: 6.85s
780:	learn: 3.5151796	total: 24.3s	remaining: 6.82s
781:	learn: 3.5112212	total: 24.3s	remaining: 6.78s
782:	learn: 3.5081943	total: 24.3s	remaining: 6.74s
783:	learn: 3.5035707	total: 24.4s	remaining: 6.72s

784:	learn: 3.5009337	total: 24.4s	remaining: 6.69s
785:	learn: 3.4960603	total: 24.5s	remaining: 6.67s
786:	learn: 3.4895561	total: 24.5s	remaining: 6.63s
787:	learn: 3.4821703	total: 24.5s	remaining: 6.59s
788:	learn: 3.4816972	total: 24.5s	remaining: 6.55s
789:	learn: 3.4772426	total: 24.6s	remaining: 6.54s
790:	learn: 3.4751662	total: 24.6s	remaining: 6.5s
791:	learn: 3.4719041	total: 24.6s	remaining: 6.46s
792:	learn: 3.4714503	total: 24.7s	remaining: 6.45s
793:	learn: 3.4670792	total: 24.7s	remaining: 6.41s
794:	learn: 3.4643128	total: 24.7s	remaining: 6.37s
795:	learn: 3.4584701	total: 24.8s	remaining: 6.35s
796:	learn: 3.4549630	total: 24.8s	remaining: 6.32s
797:	learn: 3.4504252	total: 24.8s	remaining: 6.28s
798:	learn: 3.4445297	total: 24.8s	remaining: 6.24s
799:	learn: 3.4363682	total: 24.9s	remaining: 6.22s
800:	learn: 3.4305265	total: 24.9s	remaining: 6.18s
801:	learn: 3.4250121	total: 24.9s	remaining: 6.15s
802:	learn: 3.4193661	total: 25s	remaining: 6.13s
803:	learn: 3.4121550	total: 25s	remaining: 6.09s
804:	learn: 3.4076731	total: 25s	remaining: 6.05s
805:	learn: 3.4033265	total: 25.1s	remaining: 6.04s
806:	learn: 3.3958183	total: 25.1s	remaining: 6s
807:	learn: 3.3917121	total: 25.1s	remaining: 5.96s
808:	learn: 3.3906515	total: 25.2s	remaining: 5.95s
809:	learn: 3.3798919	total: 25.2s	remaining: 5.91s
810:	learn: 3.3738106	total: 25.2s	remaining: 5.87s
811:	learn: 3.3676073	total: 25.3s	remaining: 5.85s
812:	learn: 3.3632855	total: 25.3s	remaining: 5.82s
813:	learn: 3.3592262	total: 25.3s	remaining: 5.78s
814:	learn: 3.3532160	total: 25.4s	remaining: 5.76s
815:	learn: 3.3479343	total: 25.4s	remaining: 5.72s
816:	learn: 3.3406066	total: 25.4s	remaining: 5.69s
817:	learn: 3.3367984	total: 25.4s	remaining: 5.65s
818:	learn: 3.3335923	total: 25.5s	remaining: 5.63s
819:	learn: 3.3299300	total: 25.5s	remaining: 5.59s
820:	learn: 3.3251430	total: 25.5s	remaining: 5.56s
821:	learn: 3.3193948	total: 25.6s	remaining: 5.54s
822:	learn: 3.3134787	total: 25.6s	remaining: 5.5s
823:	learn: 3.3083823	total: 25.6s	remaining: 5.46s
824:	learn: 3.3052660	total: 25.7s	remaining: 5.45s
825:	learn: 3.3002709	total: 25.7s	remaining: 5.41s
826:	learn: 3.2951351	total: 25.7s	remaining: 5.37s
827:	learn: 3.2872784	total: 25.8s	remaining: 5.35s
828:	learn: 3.2818652	total: 25.8s	remaining: 5.32s
829:	learn: 3.2781747	total: 25.8s	remaining: 5.28s
830:	learn: 3.2720728	total: 25.9s	remaining: 5.26s
831:	learn: 3.2716459	total: 25.9s	remaining: 5.22s
832:	learn: 3.2683687	total: 25.9s	remaining: 5.19s
833:	learn: 3.2651818	total: 26s	remaining: 5.17s
834:	learn: 3.2644043	total: 26s	remaining: 5.13s
835:	learn: 3.2590787	total: 26s	remaining: 5.1s
836:	learn: 3.2519876	total: 26s	remaining: 5.06s
837:	learn: 3.2444402	total: 26.1s	remaining: 5.04s
838:	learn: 3.2398968	total: 26.1s	remaining: 5s
839:	learn: 3.2342607	total: 26.1s	remaining: 4.97s
840:	learn: 3.2325081	total: 26.2s	remaining: 4.95s
841:	learn: 3.2267092	total: 26.2s	remaining: 4.91s
842:	learn: 3.2231325	total: 26.2s	remaining: 4.87s
843:	learn: 3.2140017	total: 26.3s	remaining: 4.85s
844:	learn: 3.2110863	total: 26.3s	remaining: 4.82s

845:	learn: 3.2039671	total: 26.3s	remaining: 4.78s
846:	learn: 3.1982949	total: 26.4s	remaining: 4.76s
847:	learn: 3.1914646	total: 26.4s	remaining: 4.72s
848:	learn: 3.1874744	total: 26.4s	remaining: 4.69s
849:	learn: 3.1830587	total: 26.5s	remaining: 4.67s
850:	learn: 3.1754448	total: 26.5s	remaining: 4.63s
851:	learn: 3.1749271	total: 26.5s	remaining: 4.6s
852:	learn: 3.1690868	total: 26.5s	remaining: 4.56s
853:	learn: 3.1639760	total: 26.6s	remaining: 4.54s
854:	learn: 3.1591575	total: 26.6s	remaining: 4.5s
855:	learn: 3.1545446	total: 26.6s	remaining: 4.47s
856:	learn: 3.1494235	total: 26.7s	remaining: 4.45s
857:	learn: 3.1490393	total: 26.7s	remaining: 4.41s
858:	learn: 3.1455466	total: 26.7s	remaining: 4.38s
859:	learn: 3.1421621	total: 26.8s	remaining: 4.36s
860:	learn: 3.1417270	total: 26.8s	remaining: 4.32s
861:	learn: 3.1365429	total: 26.8s	remaining: 4.28s
862:	learn: 3.1330385	total: 26.9s	remaining: 4.26s
863:	learn: 3.1278643	total: 26.9s	remaining: 4.23s
864:	learn: 3.1252888	total: 26.9s	remaining: 4.19s
865:	learn: 3.1202312	total: 26.9s	remaining: 4.17s
866:	learn: 3.1154028	total: 27s	remaining: 4.13s
867:	learn: 3.1110029	total: 27s	remaining: 4.1s
868:	learn: 3.1080521	total: 27s	remaining: 4.06s
869:	learn: 3.1020963	total: 27.1s	remaining: 4.04s
870:	learn: 3.0969963	total: 27.1s	remaining: 4.01s
871:	learn: 3.0913736	total: 27.1s	remaining: 3.98s
872:	learn: 3.0863825	total: 27.1s	remaining: 3.95s
873:	learn: 3.0842315	total: 27.2s	remaining: 3.91s
874:	learn: 3.0788784	total: 27.3s	remaining: 3.89s
875:	learn: 3.0758402	total: 27.3s	remaining: 3.86s
876:	learn: 3.0744567	total: 27.3s	remaining: 3.83s
877:	learn: 3.0681122	total: 27.3s	remaining: 3.8s
878:	learn: 3.0629900	total: 27.3s	remaining: 3.76s
879:	learn: 3.0602881	total: 27.4s	remaining: 3.73s
880:	learn: 3.0567357	total: 27.4s	remaining: 3.71s
881:	learn: 3.0538319	total: 27.4s	remaining: 3.67s
882:	learn: 3.0479970	total: 27.4s	remaining: 3.64s
883:	learn: 3.0442862	total: 27.5s	remaining: 3.61s
884:	learn: 3.0388430	total: 27.5s	remaining: 3.58s
885:	learn: 3.0359258	total: 27.5s	remaining: 3.54s
886:	learn: 3.0307702	total: 27.6s	remaining: 3.52s
887:	learn: 3.0251620	total: 27.6s	remaining: 3.48s
888:	learn: 3.0211471	total: 27.7s	remaining: 3.45s
889:	learn: 3.0157942	total: 27.7s	remaining: 3.43s
890:	learn: 3.0103213	total: 27.7s	remaining: 3.39s
891:	learn: 3.0071192	total: 27.8s	remaining: 3.36s
892:	learn: 3.0068955	total: 27.8s	remaining: 3.33s
893:	learn: 3.0029103	total: 27.8s	remaining: 3.3s
894:	learn: 2.9958998	total: 27.8s	remaining: 3.27s
895:	learn: 2.9955598	total: 27.9s	remaining: 3.24s
896:	learn: 2.9906574	total: 27.9s	remaining: 3.21s
897:	learn: 2.9846868	total: 27.9s	remaining: 3.17s
898:	learn: 2.9802567	total: 28s	remaining: 3.15s
899:	learn: 2.9769566	total: 28s	remaining: 3.11s
900:	learn: 2.9744640	total: 28s	remaining: 3.08s
901:	learn: 2.9693672	total: 28.1s	remaining: 3.06s
902:	learn: 2.9650233	total: 28.1s	remaining: 3.02s
903:	learn: 2.9585063	total: 28.1s	remaining: 2.99s
904:	learn: 2.9540745	total: 28.2s	remaining: 2.96s
905:	learn: 2.9495581	total: 28.2s	remaining: 2.93s

906:	learn: 2.9474471	total: 28.2s	remaining: 2.89s
907:	learn: 2.9434813	total: 28.2s	remaining: 2.86s
908:	learn: 2.9383932	total: 28.3s	remaining: 2.83s
909:	learn: 2.9364075	total: 28.3s	remaining: 2.8s
910:	learn: 2.9328957	total: 28.3s	remaining: 2.77s
911:	learn: 2.9276222	total: 28.4s	remaining: 2.74s
912:	learn: 2.9223090	total: 28.4s	remaining: 2.71s
913:	learn: 2.9179129	total: 28.4s	remaining: 2.67s
914:	learn: 2.9146262	total: 28.5s	remaining: 2.65s
915:	learn: 2.9103271	total: 28.5s	remaining: 2.61s
916:	learn: 2.9049654	total: 28.5s	remaining: 2.58s
917:	learn: 2.8978916	total: 28.6s	remaining: 2.56s
918:	learn: 2.8928424	total: 28.6s	remaining: 2.52s
919:	learn: 2.8883556	total: 28.6s	remaining: 2.49s
920:	learn: 2.8856145	total: 28.7s	remaining: 2.46s
921:	learn: 2.8796805	total: 28.7s	remaining: 2.43s
922:	learn: 2.8738604	total: 28.8s	remaining: 2.4s
923:	learn: 2.8693730	total: 28.8s	remaining: 2.37s
924:	learn: 2.8639008	total: 28.8s	remaining: 2.34s
925:	learn: 2.8635399	total: 28.9s	remaining: 2.31s
926:	learn: 2.8583431	total: 28.9s	remaining: 2.28s
927:	learn: 2.8580186	total: 28.9s	remaining: 2.24s
928:	learn: 2.8528104	total: 29s	remaining: 2.22s
929:	learn: 2.8453038	total: 29s	remaining: 2.18s
930:	learn: 2.8390751	total: 29s	remaining: 2.15s
931:	learn: 2.8354394	total: 29.1s	remaining: 2.12s
932:	learn: 2.8313750	total: 29.1s	remaining: 2.09s
933:	learn: 2.8254636	total: 29.2s	remaining: 2.06s
934:	learn: 2.8206992	total: 29.2s	remaining: 2.03s
935:	learn: 2.8177850	total: 29.2s	remaining: 2s
936:	learn: 2.8149882	total: 29.3s	remaining: 1.97s
937:	learn: 2.8117635	total: 29.3s	remaining: 1.94s
938:	learn: 2.8090302	total: 29.3s	remaining: 1.9s
939:	learn: 2.8064144	total: 29.3s	remaining: 1.87s
940:	learn: 2.7993680	total: 29.4s	remaining: 1.84s
941:	learn: 2.7990060	total: 29.4s	remaining: 1.81s
942:	learn: 2.7958806	total: 29.4s	remaining: 1.78s
943:	learn: 2.7915183	total: 29.5s	remaining: 1.75s
944:	learn: 2.7886415	total: 29.5s	remaining: 1.72s
945:	learn: 2.7883851	total: 29.5s	remaining: 1.68s
946:	learn: 2.7816115	total: 29.6s	remaining: 1.66s
947:	learn: 2.7767379	total: 29.6s	remaining: 1.62s
948:	learn: 2.7742162	total: 29.6s	remaining: 1.59s
949:	learn: 2.7692360	total: 29.7s	remaining: 1.56s
950:	learn: 2.7659843	total: 29.7s	remaining: 1.53s
951:	learn: 2.7631298	total: 29.7s	remaining: 1.5s
952:	learn: 2.7596705	total: 29.8s	remaining: 1.47s
953:	learn: 2.7547252	total: 29.8s	remaining: 1.44s
954:	learn: 2.7514569	total: 29.9s	remaining: 1.41s
955:	learn: 2.7484674	total: 29.9s	remaining: 1.38s
956:	learn: 2.7482080	total: 29.9s	remaining: 1.34s
957:	learn: 2.7462831	total: 30s	remaining: 1.31s
958:	learn: 2.7410828	total: 30s	remaining: 1.28s
959:	learn: 2.7377297	total: 30.1s	remaining: 1.25s
960:	learn: 2.7330470	total: 30.1s	remaining: 1.22s
961:	learn: 2.7273216	total: 30.1s	remaining: 1.19s
962:	learn: 2.7260400	total: 30.2s	remaining: 1.16s
963:	learn: 2.7217515	total: 30.2s	remaining: 1.13s
964:	learn: 2.7164168	total: 30.2s	remaining: 1.09s
965:	learn: 2.7122991	total: 30.3s	remaining: 1.06s
966:	learn: 2.7108210	total: 30.3s	remaining: 1.03s

967:	learn: 2.7043715	total: 30.3s	remaining: 1s
968:	learn: 2.7016297	total: 30.4s	remaining: 972ms
969:	learn: 2.6995802	total: 30.4s	remaining: 940ms
970:	learn: 2.6971132	total: 30.4s	remaining: 907ms
971:	learn: 2.6921054	total: 30.5s	remaining: 878ms
972:	learn: 2.6901958	total: 30.5s	remaining: 846ms
973:	learn: 2.6856002	total: 30.5s	remaining: 814ms
974:	learn: 2.6832148	total: 30.6s	remaining: 784ms
975:	learn: 2.6788140	total: 30.6s	remaining: 752ms
976:	learn: 2.6737057	total: 30.6s	remaining: 720ms
977:	learn: 2.6734279	total: 30.7s	remaining: 690ms
978:	learn: 2.6705309	total: 30.7s	remaining: 658ms
979:	learn: 2.6660377	total: 30.7s	remaining: 626ms
980:	learn: 2.6617230	total: 30.8s	remaining: 596ms
981:	learn: 2.6608284	total: 30.8s	remaining: 564ms
982:	learn: 2.6536288	total: 30.8s	remaining: 532ms
983:	learn: 2.6512723	total: 30.9s	remaining: 502ms
984:	learn: 2.6450037	total: 30.9s	remaining: 470ms
985:	learn: 2.6419277	total: 30.9s	remaining: 438ms
986:	learn: 2.6387790	total: 30.9s	remaining: 407ms
987:	learn: 2.6360853	total: 31s	remaining: 376ms
988:	learn: 2.6350931	total: 31s	remaining: 344ms
989:	learn: 2.6334994	total: 31s	remaining: 313ms
990:	learn: 2.6306097	total: 31.1s	remaining: 282ms
991:	learn: 2.6247109	total: 31.1s	remaining: 251ms
992:	learn: 2.6211289	total: 31.1s	remaining: 219ms
993:	learn: 2.6191846	total: 31.2s	remaining: 188ms
994:	learn: 2.6155697	total: 31.2s	remaining: 157ms
995:	learn: 2.6142894	total: 31.2s	remaining: 125ms
996:	learn: 2.6118347	total: 31.3s	remaining: 94.1ms
997:	learn: 2.6095910	total: 31.3s	remaining: 62.6ms
998:	learn: 2.6049846	total: 31.3s	remaining: 31.3ms
999:	learn: 2.6011145	total: 31.4s	remaining: 0us
0:	learn: 20.3924119	total: 4.15ms	remaining: 4.15s
1:	learn: 20.3208264	total: 7.81ms	remaining: 3.9s
2:	learn: 20.2500183	total: 12ms	remaining: 3.97s
3:	learn: 20.1831406	total: 86.9ms	remaining: 21.6s
4:	learn: 20.1127379	total: 90.8ms	remaining: 18.1s
5:	learn: 20.0341552	total: 94.6ms	remaining: 15.7s
6:	learn: 19.9121632	total: 182ms	remaining: 25.8s
7:	learn: 19.8437818	total: 186ms	remaining: 23.1s
8:	learn: 19.7750256	total: 190ms	remaining: 20.9s
9:	learn: 19.7028867	total: 195ms	remaining: 19.3s
10:	learn: 19.6392197	total: 283ms	remaining: 25.4s
11:	learn: 19.5743618	total: 287ms	remaining: 23.6s
12:	learn: 19.5101397	total: 290ms	remaining: 22.1s
13:	learn: 19.4487670	total: 380ms	remaining: 26.7s
14:	learn: 19.3876354	total: 384ms	remaining: 25.2s
15:	learn: 19.3238709	total: 387ms	remaining: 23.8s
16:	learn: 19.2655478	total: 476ms	remaining: 27.6s
17:	learn: 19.2082473	total: 483ms	remaining: 26.3s
18:	learn: 19.1479439	total: 487ms	remaining: 25.1s
19:	learn: 19.1023008	total: 574ms	remaining: 28.1s
20:	learn: 19.0340130	total: 578ms	remaining: 26.9s
21:	learn: 18.9707607	total: 582ms	remaining: 25.9s
22:	learn: 18.8945213	total: 586ms	remaining: 24.9s
23:	learn: 18.8381722	total: 674ms	remaining: 27.4s
24:	learn: 18.7827105	total: 679ms	remaining: 26.5s
25:	learn: 18.7192459	total: 684ms	remaining: 25.6s
26:	learn: 18.6583877	total: 772ms	remaining: 27.8s
27:	learn: 18.6090481	total: 776ms	remaining: 26.9s

28:	learn: 18.4847540	total: 780ms	remaining: 26.1s
29:	learn: 18.4272338	total: 868ms	remaining: 28.1s
30:	learn: 18.2925277	total: 872ms	remaining: 27.3s
31:	learn: 18.2373963	total: 876ms	remaining: 26.5s
32:	learn: 18.1914400	total: 877ms	remaining: 25.7s
33:	learn: 18.1378932	total: 968ms	remaining: 27.5s
34:	learn: 18.0863628	total: 972ms	remaining: 26.8s
35:	learn: 18.0344918	total: 976ms	remaining: 26.1s
36:	learn: 17.9777442	total: 1.06s	remaining: 27.7s
37:	learn: 17.8712918	total: 1.07s	remaining: 27s
38:	learn: 17.8074121	total: 1.07s	remaining: 26.4s
39:	learn: 17.7543202	total: 1.07s	remaining: 25.8s
40:	learn: 17.6643096	total: 1.16s	remaining: 27.2s
41:	learn: 17.6237478	total: 1.17s	remaining: 26.6s
42:	learn: 17.5684976	total: 1.17s	remaining: 26s
43:	learn: 17.5233471	total: 1.18s	remaining: 25.6s
44:	learn: 17.4784718	total: 1.26s	remaining: 26.8s
45:	learn: 17.4260558	total: 1.26s	remaining: 26.2s
46:	learn: 17.3820464	total: 1.27s	remaining: 25.7s
47:	learn: 17.3241918	total: 1.36s	remaining: 27s
48:	learn: 17.2766849	total: 1.36s	remaining: 26.5s
49:	learn: 17.2362200	total: 1.37s	remaining: 26s
50:	learn: 17.1949530	total: 1.46s	remaining: 27.1s
51:	learn: 17.1180155	total: 1.46s	remaining: 26.6s
52:	learn: 17.0782338	total: 1.47s	remaining: 26.2s
53:	learn: 17.0388168	total: 1.55s	remaining: 27.2s
54:	learn: 16.9940328	total: 1.56s	remaining: 26.8s
55:	learn: 16.9507560	total: 1.56s	remaining: 26.3s
56:	learn: 16.8585607	total: 1.65s	remaining: 27.3s
57:	learn: 16.8189462	total: 1.66s	remaining: 26.9s
58:	learn: 16.7507599	total: 1.66s	remaining: 26.5s
59:	learn: 16.7141530	total: 1.67s	remaining: 26.2s
60:	learn: 16.6781313	total: 1.75s	remaining: 27s
61:	learn: 16.5669585	total: 1.75s	remaining: 26.6s
62:	learn: 16.4521018	total: 1.76s	remaining: 26.2s
63:	learn: 16.3646285	total: 1.85s	remaining: 27.1s
64:	learn: 16.3287004	total: 1.85s	remaining: 26.7s
65:	learn: 16.2877473	total: 1.86s	remaining: 26.3s
66:	learn: 16.2546820	total: 1.95s	remaining: 27.1s
67:	learn: 16.1667376	total: 1.95s	remaining: 26.7s
68:	learn: 16.1303066	total: 1.96s	remaining: 26.4s
69:	learn: 16.0990163	total: 1.96s	remaining: 26s
70:	learn: 16.0329161	total: 2.04s	remaining: 26.8s
71:	learn: 15.9314104	total: 2.05s	remaining: 26.4s
72:	learn: 15.8880040	total: 2.05s	remaining: 26.1s
73:	learn: 15.8486768	total: 2.14s	remaining: 26.8s
74:	learn: 15.8140087	total: 2.15s	remaining: 26.5s
75:	learn: 15.7819902	total: 2.15s	remaining: 26.1s
76:	learn: 15.7428112	total: 2.24s	remaining: 26.8s
77:	learn: 15.6728676	total: 2.24s	remaining: 26.5s
78:	learn: 15.5981001	total: 2.25s	remaining: 26.2s
79:	learn: 15.5585216	total: 2.34s	remaining: 26.9s
80:	learn: 15.4755765	total: 2.34s	remaining: 26.6s
81:	learn: 15.4408553	total: 2.35s	remaining: 26.3s
82:	learn: 15.3785950	total: 2.35s	remaining: 26s
83:	learn: 15.3513111	total: 2.44s	remaining: 26.6s
84:	learn: 15.2968115	total: 2.44s	remaining: 26.3s
85:	learn: 15.2208421	total: 2.44s	remaining: 26s
86:	learn: 15.1470759	total: 2.54s	remaining: 26.6s
87:	learn: 15.0516809	total: 2.54s	remaining: 26.3s
88:	learn: 14.9839333	total: 2.54s	remaining: 26s

89:	learn: 14.9579679	total: 2.63s	remaining: 26.6s
90:	learn: 14.9250207	total: 2.64s	remaining: 26.3s
91:	learn: 14.8948516	total: 2.64s	remaining: 26.1s
92:	learn: 14.8683459	total: 2.73s	remaining: 26.6s
93:	learn: 14.8426524	total: 2.73s	remaining: 26.4s
94:	learn: 14.8062816	total: 2.74s	remaining: 26.1s
95:	learn: 14.7375491	total: 2.74s	remaining: 25.8s
96:	learn: 14.7014957	total: 2.83s	remaining: 26.4s
97:	learn: 14.6768114	total: 2.83s	remaining: 26.1s
98:	learn: 14.6507683	total: 2.84s	remaining: 25.8s
99:	learn: 14.5889144	total: 2.93s	remaining: 26.3s
100:	learn: 14.4829213	total: 2.93s	remaining: 26.1s
101:	learn: 14.4166047	total: 2.94s	remaining: 25.8s
102:	learn: 14.3644602	total: 3.02s	remaining: 26.3s
103:	learn: 14.3426359	total: 3.03s	remaining: 26.1s
104:	learn: 14.2828432	total: 3.03s	remaining: 25.8s
105:	learn: 14.2147226	total: 3.04s	remaining: 25.6s
106:	learn: 14.1401115	total: 3.13s	remaining: 26.1s
107:	learn: 14.0972248	total: 3.13s	remaining: 25.8s
108:	learn: 14.0622314	total: 3.13s	remaining: 25.6s
109:	learn: 14.0417085	total: 3.22s	remaining: 26.1s
110:	learn: 13.9843142	total: 3.23s	remaining: 25.9s
111:	learn: 13.9580564	total: 3.23s	remaining: 25.6s
112:	learn: 13.9341261	total: 3.32s	remaining: 26s
113:	learn: 13.9132425	total: 3.32s	remaining: 25.8s
114:	learn: 13.8579494	total: 3.33s	remaining: 25.6s
115:	learn: 13.8345514	total: 3.42s	remaining: 26s
116:	learn: 13.7834425	total: 3.42s	remaining: 25.8s
117:	learn: 13.7084607	total: 3.42s	remaining: 25.6s
118:	learn: 13.6561057	total: 3.51s	remaining: 26s
119:	learn: 13.6138578	total: 3.52s	remaining: 25.8s
120:	learn: 13.5891056	total: 3.52s	remaining: 25.6s
121:	learn: 13.5632890	total: 3.61s	remaining: 26s
122:	learn: 13.5153987	total: 3.62s	remaining: 25.8s
123:	learn: 13.4897667	total: 3.62s	remaining: 25.6s
124:	learn: 13.4629898	total: 3.63s	remaining: 25.4s
125:	learn: 13.4356166	total: 3.71s	remaining: 25.8s
126:	learn: 13.4156929	total: 3.72s	remaining: 25.6s
127:	learn: 13.3549358	total: 3.72s	remaining: 25.4s
128:	learn: 13.3170253	total: 3.81s	remaining: 25.7s
129:	learn: 13.2968437	total: 3.81s	remaining: 25.5s
130:	learn: 13.2311455	total: 3.82s	remaining: 25.3s
131:	learn: 13.1620798	total: 3.91s	remaining: 25.7s
132:	learn: 13.0844603	total: 3.91s	remaining: 25.5s
133:	learn: 13.0381336	total: 3.92s	remaining: 25.3s
134:	learn: 13.0188674	total: 4.01s	remaining: 25.7s
135:	learn: 13.0022255	total: 4.01s	remaining: 25.5s
136:	learn: 12.9556658	total: 4.01s	remaining: 25.3s
137:	learn: 12.9111363	total: 4.02s	remaining: 25.1s
138:	learn: 12.8936994	total: 4.11s	remaining: 25.4s
139:	learn: 12.8767985	total: 4.11s	remaining: 25.3s
140:	learn: 12.8571101	total: 4.11s	remaining: 25.1s
141:	learn: 12.8184305	total: 4.2s	remaining: 25.4s
142:	learn: 12.8028648	total: 4.21s	remaining: 25.2s
143:	learn: 12.7857633	total: 4.21s	remaining: 25s
144:	learn: 12.7415238	total: 4.3s	remaining: 25.4s
145:	learn: 12.7272286	total: 4.31s	remaining: 25.2s
146:	learn: 12.6729532	total: 4.31s	remaining: 25s
147:	learn: 12.6527935	total: 4.4s	remaining: 25.3s
148:	learn: 12.5917590	total: 4.4s	remaining: 25.1s
149:	learn: 12.5760660	total: 4.41s	remaining: 25s

150:	learn: 12.5546560	total: 4.5s	remaining: 25.3s
151:	learn: 12.5076462	total: 4.5s	remaining: 25.1s
152:	learn: 12.4835456	total: 4.5s	remaining: 24.9s
153:	learn: 12.4495571	total: 4.59s	remaining: 25.2s
154:	learn: 12.4054280	total: 4.6s	remaining: 25.1s
155:	learn: 12.3923989	total: 4.6s	remaining: 24.9s
156:	learn: 12.3457766	total: 4.61s	remaining: 24.7s
157:	learn: 12.2977714	total: 4.7s	remaining: 25s
158:	learn: 12.2683129	total: 4.7s	remaining: 24.9s
159:	learn: 12.2330504	total: 4.7s	remaining: 24.7s
160:	learn: 12.1979180	total: 4.79s	remaining: 25s
161:	learn: 12.1845634	total: 4.79s	remaining: 24.8s
162:	learn: 12.1662907	total: 4.8s	remaining: 24.6s
163:	learn: 12.1544680	total: 4.8s	remaining: 24.5s
164:	learn: 12.0934388	total: 4.89s	remaining: 24.8s
165:	learn: 12.0636044	total: 4.9s	remaining: 24.6s
166:	learn: 12.0428391	total: 4.9s	remaining: 24.4s
167:	learn: 12.0282205	total: 4.99s	remaining: 24.7s
168:	learn: 11.9745279	total: 4.99s	remaining: 24.5s
169:	learn: 11.9221460	total: 5s	remaining: 24.4s
170:	learn: 11.8698922	total: 5.08s	remaining: 24.6s
171:	learn: 11.8362360	total: 5.09s	remaining: 24.5s
172:	learn: 11.8188227	total: 5.09s	remaining: 24.4s
173:	learn: 11.7854422	total: 5.18s	remaining: 24.6s
174:	learn: 11.7581724	total: 5.18s	remaining: 24.4s
175:	learn: 11.7490755	total: 5.19s	remaining: 24.3s
176:	learn: 11.7052140	total: 5.19s	remaining: 24.1s
177:	learn: 11.6916295	total: 5.28s	remaining: 24.4s
178:	learn: 11.6624349	total: 5.28s	remaining: 24.2s
179:	learn: 11.6503023	total: 5.29s	remaining: 24.1s
180:	learn: 11.6134365	total: 5.38s	remaining: 24.3s
181:	learn: 11.5813029	total: 5.38s	remaining: 24.2s
182:	learn: 11.5462569	total: 5.38s	remaining: 24s
183:	learn: 11.5338289	total: 5.39s	remaining: 23.9s
184:	learn: 11.5195127	total: 5.48s	remaining: 24.1s
185:	learn: 11.4875555	total: 5.48s	remaining: 24s
186:	learn: 11.4748953	total: 5.48s	remaining: 23.8s
187:	learn: 11.4636439	total: 5.57s	remaining: 24.1s
188:	learn: 11.4339800	total: 5.58s	remaining: 23.9s
189:	learn: 11.4007239	total: 5.58s	remaining: 23.8s
190:	learn: 11.3863720	total: 5.67s	remaining: 24s
191:	learn: 11.3733161	total: 5.67s	remaining: 23.9s
192:	learn: 11.3569486	total: 5.68s	remaining: 23.8s
193:	learn: 11.3452688	total: 5.77s	remaining: 24s
194:	learn: 11.3128173	total: 5.77s	remaining: 23.8s
195:	learn: 11.2950098	total: 5.78s	remaining: 23.7s
196:	learn: 11.2555093	total: 5.78s	remaining: 23.6s
197:	learn: 11.2468871	total: 5.87s	remaining: 23.8s
198:	learn: 11.2265703	total: 5.87s	remaining: 23.6s
199:	learn: 11.2140855	total: 5.88s	remaining: 23.5s
200:	learn: 11.2031491	total: 5.96s	remaining: 23.7s
201:	learn: 11.1885118	total: 5.97s	remaining: 23.6s
202:	learn: 11.1770925	total: 5.97s	remaining: 23.5s
203:	learn: 11.1358251	total: 6.06s	remaining: 23.7s
204:	learn: 11.0959691	total: 6.07s	remaining: 23.5s
205:	learn: 11.0521584	total: 6.07s	remaining: 23.4s
206:	learn: 11.0267973	total: 6.07s	remaining: 23.3s
207:	learn: 10.9965787	total: 6.16s	remaining: 23.5s
208:	learn: 10.9856871	total: 6.17s	remaining: 23.3s
209:	learn: 10.9653421	total: 6.17s	remaining: 23.2s
210:	learn: 10.9311480	total: 6.26s	remaining: 23.4s

211:	learn: 10.8842934	total: 6.26s	remaining: 23.3s
212:	learn: 10.8641098	total: 6.27s	remaining: 23.2s
213:	learn: 10.8534311	total: 6.27s	remaining: 23s
214:	learn: 10.8156370	total: 6.36s	remaining: 23.2s
215:	learn: 10.7739800	total: 6.36s	remaining: 23.1s
216:	learn: 10.7623909	total: 6.37s	remaining: 23s
217:	learn: 10.7367604	total: 6.45s	remaining: 23.2s
218:	learn: 10.7040318	total: 6.46s	remaining: 23s
219:	learn: 10.6887324	total: 6.46s	remaining: 22.9s
220:	learn: 10.6629826	total: 6.55s	remaining: 23.1s
221:	learn: 10.6553915	total: 6.56s	remaining: 23s
222:	learn: 10.6197983	total: 6.56s	remaining: 22.9s
223:	learn: 10.6099801	total: 6.57s	remaining: 22.7s
224:	learn: 10.5792280	total: 6.65s	remaining: 22.9s
225:	learn: 10.5542979	total: 6.66s	remaining: 22.8s
226:	learn: 10.5334438	total: 6.66s	remaining: 22.7s
227:	learn: 10.5265366	total: 6.75s	remaining: 22.8s
228:	learn: 10.5034356	total: 6.75s	remaining: 22.7s
229:	learn: 10.4900065	total: 6.76s	remaining: 22.6s
230:	learn: 10.4851154	total: 6.76s	remaining: 22.5s
231:	learn: 10.4791560	total: 6.84s	remaining: 22.7s
232:	learn: 10.4670168	total: 6.85s	remaining: 22.5s
233:	learn: 10.4502076	total: 6.85s	remaining: 22.4s
234:	learn: 10.4306568	total: 6.86s	remaining: 22.3s
235:	learn: 10.4207222	total: 6.95s	remaining: 22.5s
236:	learn: 10.3942174	total: 6.95s	remaining: 22.4s
237:	learn: 10.3862096	total: 6.95s	remaining: 22.3s
238:	learn: 10.3463794	total: 7.04s	remaining: 22.4s
239:	learn: 10.3398969	total: 7.05s	remaining: 22.3s
240:	learn: 10.3322668	total: 7.05s	remaining: 22.2s
241:	learn: 10.3225739	total: 7.14s	remaining: 22.4s
242:	learn: 10.3126898	total: 7.14s	remaining: 22.3s
243:	learn: 10.3050904	total: 7.15s	remaining: 22.1s
244:	learn: 10.2970564	total: 7.24s	remaining: 22.3s
245:	learn: 10.2580178	total: 7.24s	remaining: 22.2s
246:	learn: 10.2493452	total: 7.25s	remaining: 22.1s
247:	learn: 10.2433985	total: 7.25s	remaining: 22s
248:	learn: 10.2375452	total: 7.34s	remaining: 22.1s
249:	learn: 10.2203566	total: 7.34s	remaining: 22s
250:	learn: 10.2084559	total: 7.35s	remaining: 21.9s
251:	learn: 10.1877844	total: 7.43s	remaining: 22.1s
252:	learn: 10.1796322	total: 7.44s	remaining: 22s
253:	learn: 10.1647233	total: 7.44s	remaining: 21.9s
254:	learn: 10.1600439	total: 7.45s	remaining: 21.8s
255:	learn: 10.1366661	total: 7.53s	remaining: 21.9s
256:	learn: 10.1261125	total: 7.54s	remaining: 21.8s
257:	learn: 10.1176804	total: 7.54s	remaining: 21.7s
258:	learn: 10.0940152	total: 7.63s	remaining: 21.8s
259:	learn: 10.0846761	total: 7.64s	remaining: 21.7s
260:	learn: 10.0727432	total: 7.64s	remaining: 21.6s
261:	learn: 10.0438577	total: 7.73s	remaining: 21.8s
262:	learn: 10.0388899	total: 7.73s	remaining: 21.7s
263:	learn: 10.0344024	total: 7.74s	remaining: 21.6s
264:	learn: 10.0294578	total: 7.83s	remaining: 21.7s
265:	learn: 10.0008175	total: 7.83s	remaining: 21.6s
266:	learn: 9.9870681	total: 7.83s	remaining: 21.5s
267:	learn: 9.9827772	total: 7.84s	remaining: 21.4s
268:	learn: 9.9746886	total: 7.92s	remaining: 21.5s
269:	learn: 9.9700005	total: 7.93s	remaining: 21.4s
270:	learn: 9.9661063	total: 7.93s	remaining: 21.3s
271:	learn: 9.9399889	total: 8.02s	remaining: 21.5s

272:	learn: 9.9145058	total: 8.03s	remaining: 21.4s
273:	learn: 9.9031956	total: 8.03s	remaining: 21.3s
274:	learn: 9.8982201	total: 8.12s	remaining: 21.4s
275:	learn: 9.8944842	total: 8.12s	remaining: 21.3s
276:	learn: 9.8679798	total: 8.13s	remaining: 21.2s
277:	learn: 9.8265637	total: 8.13s	remaining: 21.1s
278:	learn: 9.8214755	total: 8.22s	remaining: 21.2s
279:	learn: 9.8026404	total: 8.22s	remaining: 21.1s
280:	learn: 9.7696966	total: 8.23s	remaining: 21.1s
281:	learn: 9.7589814	total: 8.32s	remaining: 21.2s
282:	learn: 9.7531669	total: 8.32s	remaining: 21.1s
283:	learn: 9.7483892	total: 8.33s	remaining: 21s
284:	learn: 9.7433745	total: 8.41s	remaining: 21.1s
285:	learn: 9.7220165	total: 8.42s	remaining: 21s
286:	learn: 9.7080535	total: 8.42s	remaining: 20.9s
287:	learn: 9.6886038	total: 8.51s	remaining: 21s
288:	learn: 9.6849431	total: 8.52s	remaining: 21s
289:	learn: 9.6805173	total: 8.52s	remaining: 20.9s
290:	learn: 9.6747289	total: 8.52s	remaining: 20.8s
291:	learn: 9.6709732	total: 8.61s	remaining: 20.9s
292:	learn: 9.6667446	total: 8.62s	remaining: 20.8s
293:	learn: 9.6604432	total: 8.62s	remaining: 20.7s
294:	learn: 9.6522681	total: 8.71s	remaining: 20.8s
295:	learn: 9.6385084	total: 8.71s	remaining: 20.7s
296:	learn: 9.6331936	total: 8.72s	remaining: 20.6s
297:	learn: 9.6280291	total: 8.81s	remaining: 20.7s
298:	learn: 9.6048768	total: 8.81s	remaining: 20.7s
299:	learn: 9.5799312	total: 8.81s	remaining: 20.6s
300:	learn: 9.5467761	total: 8.9s	remaining: 20.7s
301:	learn: 9.5152325	total: 8.91s	remaining: 20.6s
302:	learn: 9.5119553	total: 8.91s	remaining: 20.5s
303:	learn: 9.4713160	total: 9s	remaining: 20.6s
304:	learn: 9.4357113	total: 9.01s	remaining: 20.5s
305:	learn: 9.4321034	total: 9.01s	remaining: 20.4s
306:	learn: 9.4290756	total: 9.01s	remaining: 20.3s
307:	learn: 9.4258345	total: 9.1s	remaining: 20.5s
308:	learn: 9.3909720	total: 9.11s	remaining: 20.4s
309:	learn: 9.3861819	total: 9.11s	remaining: 20.3s
310:	learn: 9.3679442	total: 9.2s	remaining: 20.4s
311:	learn: 9.3647446	total: 9.2s	remaining: 20.3s
312:	learn: 9.3594775	total: 9.21s	remaining: 20.2s
313:	learn: 9.3487938	total: 9.3s	remaining: 20.3s
314:	learn: 9.3268018	total: 9.3s	remaining: 20.2s
315:	learn: 9.3235167	total: 9.3s	remaining: 20.1s
316:	learn: 9.3205881	total: 9.31s	remaining: 20.1s
317:	learn: 9.3094419	total: 9.4s	remaining: 20.2s
318:	learn: 9.3059784	total: 9.4s	remaining: 20.1s
319:	learn: 9.2790269	total: 9.41s	remaining: 20s
320:	learn: 9.2761120	total: 9.5s	remaining: 20.1s
321:	learn: 9.2596141	total: 9.5s	remaining: 20s
322:	learn: 9.2451797	total: 9.5s	remaining: 19.9s
323:	learn: 9.2405266	total: 9.59s	remaining: 20s
324:	learn: 9.2144279	total: 9.6s	remaining: 19.9s
325:	learn: 9.2119411	total: 9.6s	remaining: 19.9s
326:	learn: 9.2090102	total: 9.69s	remaining: 19.9s
327:	learn: 9.1948014	total: 9.7s	remaining: 19.9s
328:	learn: 9.1751601	total: 9.7s	remaining: 19.8s
329:	learn: 9.1415885	total: 9.7s	remaining: 19.7s
330:	learn: 9.1092323	total: 9.79s	remaining: 19.8s
331:	learn: 9.1067052	total: 9.8s	remaining: 19.7s
332:	learn: 9.0853398	total: 9.8s	remaining: 19.6s

333:	learn: 9.0555954	total: 9.89s	remaining: 19.7s
334:	learn: 9.0403429	total: 9.89s	remaining: 19.6s
335:	learn: 9.0380035	total: 9.89s	remaining: 19.6s
336:	learn: 9.0339565	total: 9.98s	remaining: 19.6s
337:	learn: 9.0315897	total: 9.99s	remaining: 19.6s
338:	learn: 9.0097094	total: 9.99s	remaining: 19.5s
339:	learn: 8.9931038	total: 10.1s	remaining: 19.6s
340:	learn: 8.9607919	total: 10.1s	remaining: 19.5s
341:	learn: 8.9396539	total: 10.1s	remaining: 19.4s
342:	learn: 8.9315635	total: 10.2s	remaining: 19.5s
343:	learn: 8.9141868	total: 10.2s	remaining: 19.4s
344:	learn: 8.8972292	total: 10.2s	remaining: 19.4s
345:	learn: 8.8824337	total: 10.2s	remaining: 19.3s
346:	learn: 8.8708564	total: 10.3s	remaining: 19.3s
347:	learn: 8.8533955	total: 10.3s	remaining: 19.3s
348:	learn: 8.8266494	total: 10.3s	remaining: 19.2s
349:	learn: 8.8224553	total: 10.4s	remaining: 19.3s
350:	learn: 8.8201910	total: 10.4s	remaining: 19.2s
351:	learn: 8.7947566	total: 10.4s	remaining: 19.1s
352:	learn: 8.7790449	total: 10.5s	remaining: 19.2s
353:	learn: 8.7564673	total: 10.5s	remaining: 19.1s
354:	learn: 8.7289850	total: 10.5s	remaining: 19s
355:	learn: 8.7048825	total: 10.6s	remaining: 19.1s
356:	learn: 8.6792952	total: 10.6s	remaining: 19.1s
357:	learn: 8.6592165	total: 10.6s	remaining: 19s
358:	learn: 8.6428272	total: 10.7s	remaining: 19.1s
359:	learn: 8.6405453	total: 10.7s	remaining: 19s
360:	learn: 8.6211256	total: 10.7s	remaining: 18.9s
361:	learn: 8.5997491	total: 10.7s	remaining: 18.8s
362:	learn: 8.5857527	total: 10.8s	remaining: 18.9s
363:	learn: 8.5758160	total: 10.8s	remaining: 18.8s
364:	learn: 8.5597938	total: 10.8s	remaining: 18.8s
365:	learn: 8.5534704	total: 10.9s	remaining: 18.8s
366:	learn: 8.5318765	total: 10.9s	remaining: 18.8s
367:	learn: 8.5076138	total: 10.9s	remaining: 18.7s
368:	learn: 8.4897267	total: 11s	remaining: 18.8s
369:	learn: 8.4765713	total: 11s	remaining: 18.7s
370:	learn: 8.4741321	total: 11s	remaining: 18.6s
371:	learn: 8.4720581	total: 11.1s	remaining: 18.7s
372:	learn: 8.4606336	total: 11.1s	remaining: 18.6s
373:	learn: 8.4362384	total: 11.1s	remaining: 18.5s
374:	learn: 8.4218785	total: 11.2s	remaining: 18.6s
375:	learn: 8.4101798	total: 11.2s	remaining: 18.5s
376:	learn: 8.3763856	total: 11.2s	remaining: 18.5s
377:	learn: 8.3542896	total: 11.3s	remaining: 18.5s
378:	learn: 8.3527514	total: 11.3s	remaining: 18.5s
379:	learn: 8.3412505	total: 11.3s	remaining: 18.4s
380:	learn: 8.3273593	total: 11.3s	remaining: 18.3s
381:	learn: 8.3128688	total: 11.4s	remaining: 18.4s
382:	learn: 8.3114183	total: 11.4s	remaining: 18.3s
383:	learn: 8.2818314	total: 11.4s	remaining: 18.2s
384:	learn: 8.2695382	total: 11.5s	remaining: 18.3s
385:	learn: 8.2583186	total: 11.5s	remaining: 18.2s
386:	learn: 8.2332678	total: 11.5s	remaining: 18.2s
387:	learn: 8.2230424	total: 11.6s	remaining: 18.2s
388:	learn: 8.2114856	total: 11.6s	remaining: 18.2s
389:	learn: 8.1993416	total: 11.6s	remaining: 18.1s
390:	learn: 8.1718356	total: 11.7s	remaining: 18.1s
391:	learn: 8.1459537	total: 11.7s	remaining: 18.1s
392:	learn: 8.1356475	total: 11.7s	remaining: 18s
393:	learn: 8.1246870	total: 11.7s	remaining: 17.9s

394:	learn: 8.1173161	total: 11.8s	remaining: 18s
395:	learn: 8.1073595	total: 11.8s	remaining: 17.9s
396:	learn: 8.0885674	total: 11.8s	remaining: 17.9s
397:	learn: 8.0577292	total: 11.8s	remaining: 17.9s
398:	learn: 8.0294794	total: 11.9s	remaining: 17.9s
399:	learn: 8.0159006	total: 11.9s	remaining: 17.8s
400:	learn: 8.0001106	total: 11.9s	remaining: 17.8s
401:	learn: 7.9700758	total: 12s	remaining: 17.8s
402:	learn: 7.9617035	total: 12s	remaining: 17.7s
403:	learn: 7.9501694	total: 12s	remaining: 17.8s
404:	learn: 7.9339473	total: 12.1s	remaining: 17.7s
405:	learn: 7.9077287	total: 12.1s	remaining: 17.6s
406:	learn: 7.8868400	total: 12.1s	remaining: 17.7s
407:	learn: 7.8581566	total: 12.1s	remaining: 17.6s
408:	learn: 7.8522714	total: 12.2s	remaining: 17.6s
409:	learn: 7.8509316	total: 12.2s	remaining: 17.6s
410:	learn: 7.8322323	total: 12.2s	remaining: 17.5s
411:	learn: 7.8048840	total: 12.2s	remaining: 17.5s
412:	learn: 7.8004444	total: 12.3s	remaining: 17.5s
413:	learn: 7.7971067	total: 12.3s	remaining: 17.5s
414:	learn: 7.7875202	total: 12.3s	remaining: 17.4s
415:	learn: 7.7598204	total: 12.3s	remaining: 17.3s
416:	learn: 7.7346322	total: 12.4s	remaining: 17.4s
417:	learn: 7.7293704	total: 12.4s	remaining: 17.3s
418:	learn: 7.7014092	total: 12.4s	remaining: 17.3s
419:	learn: 7.6837252	total: 12.5s	remaining: 17.3s
420:	learn: 7.6663316	total: 12.5s	remaining: 17.2s
421:	learn: 7.6443415	total: 12.6s	remaining: 17.2s
422:	learn: 7.6290057	total: 12.6s	remaining: 17.2s
423:	learn: 7.6060961	total: 12.6s	remaining: 17.2s
424:	learn: 7.5954329	total: 12.6s	remaining: 17.1s
425:	learn: 7.5865456	total: 12.7s	remaining: 17.2s
426:	learn: 7.5715130	total: 12.7s	remaining: 17.1s
427:	learn: 7.5612998	total: 12.7s	remaining: 17s
428:	learn: 7.5426065	total: 12.8s	remaining: 17.1s
429:	learn: 7.5280598	total: 12.8s	remaining: 17s
430:	learn: 7.5200529	total: 12.8s	remaining: 16.9s
431:	learn: 7.5145174	total: 12.9s	remaining: 17s
432:	learn: 7.4993638	total: 12.9s	remaining: 16.9s
433:	learn: 7.4849998	total: 12.9s	remaining: 16.9s
434:	learn: 7.4768738	total: 13s	remaining: 16.9s
435:	learn: 7.4738471	total: 13s	remaining: 16.9s
436:	learn: 7.4626698	total: 13s	remaining: 16.8s
437:	learn: 7.4524103	total: 13.1s	remaining: 16.8s
438:	learn: 7.4452093	total: 13.1s	remaining: 16.8s
439:	learn: 7.4318940	total: 13.1s	remaining: 16.7s
440:	learn: 7.4075328	total: 13.2s	remaining: 16.8s
441:	learn: 7.3906678	total: 13.2s	remaining: 16.7s
442:	learn: 7.3793676	total: 13.2s	remaining: 16.6s
443:	learn: 7.3713424	total: 13.3s	remaining: 16.7s
444:	learn: 7.3595055	total: 13.3s	remaining: 16.6s
445:	learn: 7.3455479	total: 13.3s	remaining: 16.6s
446:	learn: 7.3355432	total: 13.4s	remaining: 16.6s
447:	learn: 7.3252813	total: 13.4s	remaining: 16.5s
448:	learn: 7.3234914	total: 13.4s	remaining: 16.5s
449:	learn: 7.3025272	total: 13.4s	remaining: 16.4s
450:	learn: 7.3000366	total: 13.5s	remaining: 16.5s
451:	learn: 7.2846104	total: 13.5s	remaining: 16.4s
452:	learn: 7.2749419	total: 13.5s	remaining: 16.3s
453:	learn: 7.2525365	total: 13.6s	remaining: 16.4s
454:	learn: 7.2361149	total: 13.6s	remaining: 16.3s

455:	learn: 7.2194030	total: 13.6s	remaining: 16.3s
456:	learn: 7.2116203	total: 13.7s	remaining: 16.3s
457:	learn: 7.2102549	total: 13.7s	remaining: 16.2s
458:	learn: 7.1925672	total: 13.7s	remaining: 16.2s
459:	learn: 7.1827879	total: 13.8s	remaining: 16.2s
460:	learn: 7.1790418	total: 13.8s	remaining: 16.2s
461:	learn: 7.1693468	total: 13.8s	remaining: 16.1s
462:	learn: 7.1668145	total: 13.9s	remaining: 16.1s
463:	learn: 7.1657278	total: 13.9s	remaining: 16.1s
464:	learn: 7.1486710	total: 13.9s	remaining: 16s
465:	learn: 7.1340515	total: 13.9s	remaining: 16s
466:	learn: 7.1229109	total: 14s	remaining: 16s
467:	learn: 7.1072859	total: 14s	remaining: 15.9s
468:	learn: 7.0902080	total: 14s	remaining: 15.9s
469:	learn: 7.0806867	total: 14.1s	remaining: 15.9s
470:	learn: 7.0719418	total: 14.1s	remaining: 15.8s
471:	learn: 7.0618447	total: 14.1s	remaining: 15.8s
472:	learn: 7.0474159	total: 14.2s	remaining: 15.8s
473:	learn: 7.0394040	total: 14.2s	remaining: 15.8s
474:	learn: 7.0321980	total: 14.2s	remaining: 15.7s
475:	learn: 7.0148784	total: 14.3s	remaining: 15.7s
476:	learn: 7.0135497	total: 14.3s	remaining: 15.7s
477:	learn: 7.0008183	total: 14.3s	remaining: 15.6s
478:	learn: 6.9873947	total: 14.4s	remaining: 15.7s
479:	learn: 6.9831441	total: 14.4s	remaining: 15.6s
480:	learn: 6.9658239	total: 14.4s	remaining: 15.5s
481:	learn: 6.9593677	total: 14.5s	remaining: 15.6s
482:	learn: 6.9501308	total: 14.5s	remaining: 15.5s
483:	learn: 6.9452511	total: 14.5s	remaining: 15.5s
484:	learn: 6.9307872	total: 14.6s	remaining: 15.5s
485:	learn: 6.9225737	total: 14.6s	remaining: 15.4s
486:	learn: 6.8966177	total: 14.6s	remaining: 15.4s
487:	learn: 6.8853042	total: 14.7s	remaining: 15.4s
488:	learn: 6.8744742	total: 14.7s	remaining: 15.4s
489:	learn: 6.8633230	total: 14.7s	remaining: 15.3s
490:	learn: 6.8496817	total: 14.8s	remaining: 15.3s
491:	learn: 6.8403412	total: 14.8s	remaining: 15.3s
492:	learn: 6.8313872	total: 14.8s	remaining: 15.2s
493:	learn: 6.8181795	total: 14.9s	remaining: 15.3s
494:	learn: 6.8085811	total: 14.9s	remaining: 15.2s
495:	learn: 6.7864854	total: 14.9s	remaining: 15.1s
496:	learn: 6.7735951	total: 14.9s	remaining: 15.1s
497:	learn: 6.7651277	total: 15s	remaining: 15.1s
498:	learn: 6.7574398	total: 15s	remaining: 15.1s
499:	learn: 6.7389859	total: 15s	remaining: 15s
500:	learn: 6.7303482	total: 15.1s	remaining: 15s
501:	learn: 6.7224496	total: 15.1s	remaining: 15s
502:	learn: 6.7211676	total: 15.1s	remaining: 14.9s
503:	learn: 6.7172590	total: 15.2s	remaining: 14.9s
504:	learn: 6.7055540	total: 15.2s	remaining: 14.9s
505:	learn: 6.6971776	total: 15.2s	remaining: 14.8s
506:	learn: 6.6859720	total: 15.3s	remaining: 14.9s
507:	learn: 6.6753289	total: 15.3s	remaining: 14.8s
508:	learn: 6.6625258	total: 15.3s	remaining: 14.7s
509:	learn: 6.6533671	total: 15.3s	remaining: 14.7s
510:	learn: 6.6343027	total: 15.4s	remaining: 14.7s
511:	learn: 6.6104321	total: 15.4s	remaining: 14.7s
512:	learn: 6.6016963	total: 15.4s	remaining: 14.6s
513:	learn: 6.6006183	total: 15.5s	remaining: 14.6s
514:	learn: 6.5935847	total: 15.5s	remaining: 14.6s
515:	learn: 6.5851738	total: 15.5s	remaining: 14.5s

516:	learn: 6.5767627	total: 15.6s	remaining: 14.6s
517:	learn: 6.5650284	total: 15.6s	remaining: 14.5s
518:	learn: 6.5542021	total: 15.6s	remaining: 14.4s
519:	learn: 6.5422781	total: 15.7s	remaining: 14.5s
520:	learn: 6.5359687	total: 15.7s	remaining: 14.4s
521:	learn: 6.5267569	total: 15.7s	remaining: 14.4s
522:	learn: 6.5246304	total: 15.7s	remaining: 14.3s
523:	learn: 6.5186139	total: 15.8s	remaining: 14.3s
524:	learn: 6.5094982	total: 15.8s	remaining: 14.3s
525:	learn: 6.4927699	total: 15.8s	remaining: 14.2s
526:	learn: 6.4847507	total: 15.9s	remaining: 14.2s
527:	learn: 6.4741560	total: 15.9s	remaining: 14.2s
528:	learn: 6.4524171	total: 15.9s	remaining: 14.1s
529:	learn: 6.4434087	total: 16s	remaining: 14.2s
530:	learn: 6.4410717	total: 16s	remaining: 14.1s
531:	learn: 6.4344042	total: 16s	remaining: 14.1s
532:	learn: 6.4267200	total: 16.1s	remaining: 14.1s
533:	learn: 6.4164601	total: 16.1s	remaining: 14s
534:	learn: 6.4155698	total: 16.1s	remaining: 14s
535:	learn: 6.4088238	total: 16.1s	remaining: 13.9s
536:	learn: 6.4076408	total: 16.2s	remaining: 13.9s
537:	learn: 6.3971989	total: 16.2s	remaining: 13.9s
538:	learn: 6.3864113	total: 16.2s	remaining: 13.8s
539:	learn: 6.3853206	total: 16.3s	remaining: 13.9s
540:	learn: 6.3651879	total: 16.3s	remaining: 13.8s
541:	learn: 6.3638747	total: 16.3s	remaining: 13.7s
542:	learn: 6.3567141	total: 16.4s	remaining: 13.8s
543:	learn: 6.3431205	total: 16.4s	remaining: 13.7s
544:	learn: 6.3315469	total: 16.4s	remaining: 13.7s
545:	learn: 6.3253112	total: 16.5s	remaining: 13.7s
546:	learn: 6.3205183	total: 16.5s	remaining: 13.6s
547:	learn: 6.3101348	total: 16.5s	remaining: 13.6s
548:	learn: 6.3084503	total: 16.6s	remaining: 13.6s
549:	learn: 6.2891679	total: 16.6s	remaining: 13.5s
550:	learn: 6.2792038	total: 16.6s	remaining: 13.5s
551:	learn: 6.2622921	total: 16.6s	remaining: 13.4s
552:	learn: 6.2555852	total: 16.7s	remaining: 13.5s
553:	learn: 6.2413693	total: 16.7s	remaining: 13.4s
554:	learn: 6.2310957	total: 16.7s	remaining: 13.4s
555:	learn: 6.2173000	total: 16.8s	remaining: 13.4s
556:	learn: 6.2050135	total: 16.8s	remaining: 13.3s
557:	learn: 6.1959529	total: 16.8s	remaining: 13.3s
558:	learn: 6.1882191	total: 16.9s	remaining: 13.3s
559:	learn: 6.1801888	total: 16.9s	remaining: 13.2s
560:	learn: 6.1705503	total: 16.9s	remaining: 13.2s
561:	learn: 6.1656093	total: 16.9s	remaining: 13.2s
562:	learn: 6.1579100	total: 17s	remaining: 13.2s
563:	learn: 6.1483599	total: 17s	remaining: 13.1s
564:	learn: 6.1406518	total: 17s	remaining: 13.1s
565:	learn: 6.1383559	total: 17s	remaining: 13.1s
566:	learn: 6.1247620	total: 17.1s	remaining: 13s
567:	learn: 6.1147546	total: 17.1s	remaining: 13s
568:	learn: 6.1039280	total: 17.1s	remaining: 13s
569:	learn: 6.0935934	total: 17.1s	remaining: 12.9s
570:	learn: 6.0837695	total: 17.2s	remaining: 12.9s
571:	learn: 6.0713340	total: 17.2s	remaining: 12.9s
572:	learn: 6.0596762	total: 17.2s	remaining: 12.9s
573:	learn: 6.0441367	total: 17.3s	remaining: 12.8s
574:	learn: 6.0378497	total: 17.3s	remaining: 12.8s
575:	learn: 6.0331346	total: 17.3s	remaining: 12.8s
576:	learn: 6.0198006	total: 17.3s	remaining: 12.7s

577:	learn: 6.0182302	total: 17.4s	remaining: 12.7s
578:	learn: 6.0038370	total: 17.4s	remaining: 12.7s
579:	learn: 6.0028061	total: 17.4s	remaining: 12.6s
580:	learn: 5.9936721	total: 17.5s	remaining: 12.6s
581:	learn: 5.9832032	total: 17.5s	remaining: 12.6s
582:	learn: 5.9795168	total: 17.5s	remaining: 12.5s
583:	learn: 5.9661993	total: 17.6s	remaining: 12.6s
584:	learn: 5.9584618	total: 17.6s	remaining: 12.5s
585:	learn: 5.9542336	total: 17.6s	remaining: 12.5s
586:	learn: 5.9408460	total: 17.7s	remaining: 12.5s
587:	learn: 5.9312958	total: 17.7s	remaining: 12.4s
588:	learn: 5.9248463	total: 17.7s	remaining: 12.4s
589:	learn: 5.9182678	total: 17.7s	remaining: 12.3s
590:	learn: 5.9167718	total: 17.8s	remaining: 12.3s
591:	learn: 5.9108634	total: 17.8s	remaining: 12.3s
592:	learn: 5.9063298	total: 17.8s	remaining: 12.2s
593:	learn: 5.9014572	total: 17.9s	remaining: 12.3s
594:	learn: 5.8923914	total: 17.9s	remaining: 12.2s
595:	learn: 5.8830986	total: 17.9s	remaining: 12.2s
596:	learn: 5.8702318	total: 18s	remaining: 12.2s
597:	learn: 5.8634034	total: 18s	remaining: 12.1s
598:	learn: 5.8627076	total: 18s	remaining: 12.1s
599:	learn: 5.8499601	total: 18.1s	remaining: 12.1s
600:	learn: 5.8466137	total: 18.1s	remaining: 12s
601:	learn: 5.8350045	total: 18.1s	remaining: 12s
602:	learn: 5.8267634	total: 18.2s	remaining: 12s
603:	learn: 5.8164803	total: 18.2s	remaining: 11.9s
604:	learn: 5.8074741	total: 18.2s	remaining: 11.9s
605:	learn: 5.7984476	total: 18.3s	remaining: 11.9s
606:	learn: 5.7869828	total: 18.3s	remaining: 11.9s
607:	learn: 5.7791064	total: 18.3s	remaining: 11.8s
608:	learn: 5.7709324	total: 18.4s	remaining: 11.8s
609:	learn: 5.7650520	total: 18.4s	remaining: 11.8s
610:	learn: 5.7535797	total: 18.4s	remaining: 11.7s
611:	learn: 5.7479519	total: 18.5s	remaining: 11.7s
612:	learn: 5.7386191	total: 18.5s	remaining: 11.7s
613:	learn: 5.7346767	total: 18.5s	remaining: 11.6s
614:	learn: 5.7280990	total: 18.6s	remaining: 11.7s
615:	learn: 5.7198865	total: 18.6s	remaining: 11.6s
616:	learn: 5.7052370	total: 18.6s	remaining: 11.6s
617:	learn: 5.6964433	total: 18.7s	remaining: 11.6s
618:	learn: 5.6831801	total: 18.7s	remaining: 11.5s
619:	learn: 5.6762828	total: 18.7s	remaining: 11.5s
620:	learn: 5.6688860	total: 18.8s	remaining: 11.5s
621:	learn: 5.6674072	total: 18.8s	remaining: 11.4s
622:	learn: 5.6622024	total: 18.8s	remaining: 11.4s
623:	learn: 5.6531593	total: 18.9s	remaining: 11.4s
624:	learn: 5.6406474	total: 18.9s	remaining: 11.3s
625:	learn: 5.6263737	total: 18.9s	remaining: 11.3s
626:	learn: 5.6171811	total: 19s	remaining: 11.3s
627:	learn: 5.6105980	total: 19s	remaining: 11.3s
628:	learn: 5.6020032	total: 19s	remaining: 11.2s
629:	learn: 5.5971852	total: 19.1s	remaining: 11.2s
630:	learn: 5.5901944	total: 19.1s	remaining: 11.2s
631:	learn: 5.5844045	total: 19.1s	remaining: 11.1s
632:	learn: 5.5765452	total: 19.2s	remaining: 11.1s
633:	learn: 5.5685784	total: 19.2s	remaining: 11.1s
634:	learn: 5.5560284	total: 19.2s	remaining: 11s
635:	learn: 5.5533430	total: 19.3s	remaining: 11s
636:	learn: 5.5438941	total: 19.3s	remaining: 11s
637:	learn: 5.5365792	total: 19.3s	remaining: 11s

638:	learn: 5.5193978	total: 19.3s	remaining: 10.9s
639:	learn: 5.5084713	total: 19.4s	remaining: 10.9s
640:	learn: 5.4980525	total: 19.4s	remaining: 10.9s
641:	learn: 5.4844186	total: 19.4s	remaining: 10.8s
642:	learn: 5.4771238	total: 19.5s	remaining: 10.8s
643:	learn: 5.4653431	total: 19.5s	remaining: 10.8s
644:	learn: 5.4597142	total: 19.5s	remaining: 10.7s
645:	learn: 5.4511701	total: 19.6s	remaining: 10.7s
646:	learn: 5.4338148	total: 19.6s	remaining: 10.7s
647:	learn: 5.4280673	total: 19.6s	remaining: 10.6s
648:	learn: 5.4193824	total: 19.7s	remaining: 10.7s
649:	learn: 5.4106618	total: 19.7s	remaining: 10.6s
650:	learn: 5.4012373	total: 19.7s	remaining: 10.6s
651:	learn: 5.3985275	total: 19.8s	remaining: 10.6s
652:	learn: 5.3843152	total: 19.8s	remaining: 10.5s
653:	learn: 5.3802545	total: 19.8s	remaining: 10.5s
654:	learn: 5.3762516	total: 19.9s	remaining: 10.5s
655:	learn: 5.3714949	total: 19.9s	remaining: 10.4s
656:	learn: 5.3646674	total: 19.9s	remaining: 10.4s
657:	learn: 5.3570881	total: 19.9s	remaining: 10.3s
658:	learn: 5.3550185	total: 20s	remaining: 10.3s
659:	learn: 5.3454107	total: 20s	remaining: 10.3s
660:	learn: 5.3401501	total: 20s	remaining: 10.3s
661:	learn: 5.3301309	total: 20.1s	remaining: 10.3s
662:	learn: 5.3203051	total: 20.1s	remaining: 10.2s
663:	learn: 5.3091861	total: 20.1s	remaining: 10.2s
664:	learn: 5.2989080	total: 20.2s	remaining: 10.2s
665:	learn: 5.2855537	total: 20.2s	remaining: 10.1s
666:	learn: 5.2792175	total: 20.2s	remaining: 10.1s
667:	learn: 5.2640563	total: 20.3s	remaining: 10.1s
668:	learn: 5.2627626	total: 20.3s	remaining: 10s
669:	learn: 5.2587935	total: 20.3s	remaining: 9.99s
670:	learn: 5.2528657	total: 20.4s	remaining: 9.99s
671:	learn: 5.2453022	total: 20.4s	remaining: 9.95s
672:	learn: 5.2367802	total: 20.4s	remaining: 9.9s
673:	learn: 5.2354477	total: 20.5s	remaining: 9.9s
674:	learn: 5.2189742	total: 20.5s	remaining: 9.86s
675:	learn: 5.2076413	total: 20.5s	remaining: 9.82s
676:	learn: 5.2038324	total: 20.6s	remaining: 9.81s
677:	learn: 5.2015896	total: 20.6s	remaining: 9.77s
678:	learn: 5.1928291	total: 20.6s	remaining: 9.73s
679:	learn: 5.1868461	total: 20.7s	remaining: 9.73s
680:	learn: 5.1796496	total: 20.7s	remaining: 9.68s
681:	learn: 5.1775416	total: 20.7s	remaining: 9.64s
682:	learn: 5.1728059	total: 20.7s	remaining: 9.6s
683:	learn: 5.1592448	total: 20.8s	remaining: 9.6s
684:	learn: 5.1574570	total: 20.8s	remaining: 9.55s
685:	learn: 5.1508374	total: 20.8s	remaining: 9.51s
686:	learn: 5.1458993	total: 20.9s	remaining: 9.51s
687:	learn: 5.1426722	total: 20.9s	remaining: 9.46s
688:	learn: 5.1358474	total: 20.9s	remaining: 9.42s
689:	learn: 5.1294269	total: 21s	remaining: 9.42s
690:	learn: 5.1232727	total: 21s	remaining: 9.38s
691:	learn: 5.1187894	total: 21s	remaining: 9.34s
692:	learn: 5.1174129	total: 21.1s	remaining: 9.33s
693:	learn: 5.1119415	total: 21.1s	remaining: 9.29s
694:	learn: 5.0992050	total: 21.1s	remaining: 9.25s
695:	learn: 5.0861397	total: 21.2s	remaining: 9.24s
696:	learn: 5.0815947	total: 21.2s	remaining: 9.2s
697:	learn: 5.0719279	total: 21.2s	remaining: 9.16s
698:	learn: 5.0666424	total: 21.3s	remaining: 9.15s

699:	learn: 5.0567209	total: 21.3s	remaining: 9.11s
700:	learn: 5.0553077	total: 21.3s	remaining: 9.07s
701:	learn: 5.0452944	total: 21.4s	remaining: 9.06s
702:	learn: 5.0352115	total: 21.4s	remaining: 9.02s
703:	learn: 5.0205642	total: 21.4s	remaining: 8.98s
704:	learn: 5.0142565	total: 21.4s	remaining: 8.94s
705:	learn: 5.0082235	total: 21.5s	remaining: 8.93s
706:	learn: 4.9932712	total: 21.5s	remaining: 8.89s
707:	learn: 4.9875447	total: 21.5s	remaining: 8.85s
708:	learn: 4.9787138	total: 21.6s	remaining: 8.85s
709:	learn: 4.9714906	total: 21.6s	remaining: 8.81s
710:	learn: 4.9604436	total: 21.6s	remaining: 8.77s
711:	learn: 4.9550980	total: 21.7s	remaining: 8.76s
712:	learn: 4.9446919	total: 21.7s	remaining: 8.72s
713:	learn: 4.9365200	total: 21.7s	remaining: 8.68s
714:	learn: 4.9302903	total: 21.7s	remaining: 8.67s
715:	learn: 4.9251667	total: 21.8s	remaining: 8.63s
716:	learn: 4.9231326	total: 21.8s	remaining: 8.59s
717:	learn: 4.9128922	total: 21.8s	remaining: 8.58s
718:	learn: 4.9084845	total: 21.9s	remaining: 8.54s
719:	learn: 4.9026659	total: 21.9s	remaining: 8.5s
720:	learn: 4.8898123	total: 21.9s	remaining: 8.49s
721:	learn: 4.8790541	total: 21.9s	remaining: 8.45s
722:	learn: 4.8756133	total: 22s	remaining: 8.41s
723:	learn: 4.8749900	total: 22s	remaining: 8.4s
724:	learn: 4.8717257	total: 22s	remaining: 8.36s
725:	learn: 4.8692254	total: 22.1s	remaining: 8.32s
726:	learn: 4.8610542	total: 22.1s	remaining: 8.31s
727:	learn: 4.8556605	total: 22.1s	remaining: 8.27s
728:	learn: 4.8467048	total: 22.1s	remaining: 8.23s
729:	learn: 4.8374177	total: 22.2s	remaining: 8.22s
730:	learn: 4.8229226	total: 22.2s	remaining: 8.19s
731:	learn: 4.8221161	total: 22.3s	remaining: 8.15s
732:	learn: 4.8181464	total: 22.3s	remaining: 8.13s
733:	learn: 4.8077781	total: 22.3s	remaining: 8.1s
734:	learn: 4.7959006	total: 22.3s	remaining: 8.06s
735:	learn: 4.7859800	total: 22.4s	remaining: 8.02s
736:	learn: 4.7717133	total: 22.4s	remaining: 8.01s
737:	learn: 4.7631266	total: 22.4s	remaining: 7.97s
738:	learn: 4.7587893	total: 22.4s	remaining: 7.93s
739:	learn: 4.7450850	total: 22.5s	remaining: 7.92s
740:	learn: 4.7360924	total: 22.5s	remaining: 7.88s
741:	learn: 4.7296876	total: 22.5s	remaining: 7.84s
742:	learn: 4.7213812	total: 22.6s	remaining: 7.83s
743:	learn: 4.7202299	total: 22.6s	remaining: 7.79s
744:	learn: 4.7097612	total: 22.6s	remaining: 7.75s
745:	learn: 4.7040801	total: 22.7s	remaining: 7.74s
746:	learn: 4.6992553	total: 22.7s	remaining: 7.7s
747:	learn: 4.6945906	total: 22.7s	remaining: 7.66s
748:	learn: 4.6938310	total: 22.8s	remaining: 7.65s
749:	learn: 4.6852118	total: 22.8s	remaining: 7.61s
750:	learn: 4.6786940	total: 22.8s	remaining: 7.57s
751:	learn: 4.6777881	total: 22.9s	remaining: 7.56s
752:	learn: 4.6682081	total: 22.9s	remaining: 7.52s
753:	learn: 4.6629780	total: 22.9s	remaining: 7.48s
754:	learn: 4.6552806	total: 22.9s	remaining: 7.44s
755:	learn: 4.6463760	total: 23s	remaining: 7.43s
756:	learn: 4.6415528	total: 23s	remaining: 7.39s
757:	learn: 4.6404373	total: 23s	remaining: 7.36s
758:	learn: 4.6397909	total: 23.1s	remaining: 7.34s
759:	learn: 4.6297153	total: 23.1s	remaining: 7.3s

760:	learn: 4.6291340	total: 23.1s	remaining: 7.26s
761:	learn: 4.6212461	total: 23.2s	remaining: 7.25s
762:	learn: 4.6127784	total: 23.2s	remaining: 7.21s
763:	learn: 4.6025973	total: 23.2s	remaining: 7.17s
764:	learn: 4.5995705	total: 23.3s	remaining: 7.16s
765:	learn: 4.5948338	total: 23.3s	remaining: 7.12s
766:	learn: 4.5922434	total: 23.3s	remaining: 7.08s
767:	learn: 4.5877214	total: 23.4s	remaining: 7.07s
768:	learn: 4.5800293	total: 23.4s	remaining: 7.03s
769:	learn: 4.5717105	total: 23.4s	remaining: 7s
770:	learn: 4.5653801	total: 23.5s	remaining: 6.98s
771:	learn: 4.5567550	total: 23.5s	remaining: 6.95s
772:	learn: 4.5562513	total: 23.5s	remaining: 6.91s
773:	learn: 4.5480341	total: 23.6s	remaining: 6.89s
774:	learn: 4.5401482	total: 23.6s	remaining: 6.86s
775:	learn: 4.5322818	total: 23.6s	remaining: 6.82s
776:	learn: 4.5210552	total: 23.7s	remaining: 6.8s
777:	learn: 4.5165712	total: 23.7s	remaining: 6.77s
778:	learn: 4.5158327	total: 23.7s	remaining: 6.73s
779:	learn: 4.5074818	total: 23.8s	remaining: 6.71s
780:	learn: 4.4996947	total: 23.8s	remaining: 6.68s
781:	learn: 4.4890303	total: 23.8s	remaining: 6.64s
782:	learn: 4.4792706	total: 23.9s	remaining: 6.62s
783:	learn: 4.4752004	total: 23.9s	remaining: 6.59s
784:	learn: 4.4671228	total: 23.9s	remaining: 6.55s
785:	learn: 4.4667028	total: 23.9s	remaining: 6.51s
786:	learn: 4.4589939	total: 24s	remaining: 6.5s
787:	learn: 4.4479992	total: 24s	remaining: 6.46s
788:	learn: 4.4445668	total: 24s	remaining: 6.42s
789:	learn: 4.4373562	total: 24.1s	remaining: 6.41s
790:	learn: 4.4356503	total: 24.1s	remaining: 6.37s
791:	learn: 4.4272642	total: 24.1s	remaining: 6.33s
792:	learn: 4.4176823	total: 24.1s	remaining: 6.29s
793:	learn: 4.4172045	total: 24.2s	remaining: 6.28s
794:	learn: 4.4067470	total: 24.2s	remaining: 6.24s
795:	learn: 4.4008612	total: 24.2s	remaining: 6.2s
796:	learn: 4.3982042	total: 24.3s	remaining: 6.19s
797:	learn: 4.3967220	total: 24.3s	remaining: 6.15s
798:	learn: 4.3855785	total: 24.3s	remaining: 6.11s
799:	learn: 4.3749619	total: 24.3s	remaining: 6.08s
800:	learn: 4.3622366	total: 24.4s	remaining: 6.06s
801:	learn: 4.3601444	total: 24.4s	remaining: 6.02s
802:	learn: 4.3534775	total: 24.4s	remaining: 5.99s
803:	learn: 4.3528348	total: 24.5s	remaining: 5.97s
804:	learn: 4.3507162	total: 24.5s	remaining: 5.93s
805:	learn: 4.3405754	total: 24.5s	remaining: 5.9s
806:	learn: 4.3348910	total: 24.6s	remaining: 5.88s
807:	learn: 4.3289272	total: 24.6s	remaining: 5.84s
808:	learn: 4.3211040	total: 24.6s	remaining: 5.81s
809:	learn: 4.3152508	total: 24.7s	remaining: 5.79s
810:	learn: 4.3082200	total: 24.7s	remaining: 5.75s
811:	learn: 4.2989753	total: 24.7s	remaining: 5.72s
812:	learn: 4.2912632	total: 24.8s	remaining: 5.7s
813:	learn: 4.2797283	total: 24.8s	remaining: 5.66s
814:	learn: 4.2750276	total: 24.8s	remaining: 5.63s
815:	learn: 4.2691135	total: 24.8s	remaining: 5.59s
816:	learn: 4.2629455	total: 24.9s	remaining: 5.58s
817:	learn: 4.2590786	total: 24.9s	remaining: 5.54s
818:	learn: 4.2521447	total: 24.9s	remaining: 5.5s
819:	learn: 4.2483690	total: 25s	remaining: 5.48s
820:	learn: 4.2469490	total: 25s	remaining: 5.45s

821:	learn: 4.2403724	total: 25s	remaining: 5.41s
822:	learn: 4.2373615	total: 25.1s	remaining: 5.39s
823:	learn: 4.2366254	total: 25.1s	remaining: 5.36s
824:	learn: 4.2310517	total: 25.1s	remaining: 5.32s
825:	learn: 4.2268180	total: 25.2s	remaining: 5.3s
826:	learn: 4.2241815	total: 25.2s	remaining: 5.27s
827:	learn: 4.2200929	total: 25.2s	remaining: 5.23s
828:	learn: 4.2157098	total: 25.3s	remaining: 5.21s
829:	learn: 4.2084072	total: 25.3s	remaining: 5.18s
830:	learn: 4.2036981	total: 25.3s	remaining: 5.14s
831:	learn: 4.1978972	total: 25.4s	remaining: 5.12s
832:	learn: 4.1879414	total: 25.4s	remaining: 5.09s
833:	learn: 4.1764683	total: 25.4s	remaining: 5.05s
834:	learn: 4.1661306	total: 25.4s	remaining: 5.02s
835:	learn: 4.1588799	total: 25.5s	remaining: 5s
836:	learn: 4.1523619	total: 25.5s	remaining: 4.96s
837:	learn: 4.1514842	total: 25.5s	remaining: 4.93s
838:	learn: 4.1471375	total: 25.6s	remaining: 4.91s
839:	learn: 4.1465451	total: 25.6s	remaining: 4.87s
840:	learn: 4.1396372	total: 25.6s	remaining: 4.84s
841:	learn: 4.1327221	total: 25.7s	remaining: 4.82s
842:	learn: 4.1302688	total: 25.7s	remaining: 4.78s
843:	learn: 4.1232671	total: 25.7s	remaining: 4.75s
844:	learn: 4.1146689	total: 25.8s	remaining: 4.73s
845:	learn: 4.1037351	total: 25.8s	remaining: 4.69s
846:	learn: 4.1026119	total: 25.8s	remaining: 4.66s
847:	learn: 4.0933306	total: 25.9s	remaining: 4.64s
848:	learn: 4.0843857	total: 25.9s	remaining: 4.6s
849:	learn: 4.0734748	total: 25.9s	remaining: 4.57s
850:	learn: 4.0654650	total: 26s	remaining: 4.55s
851:	learn: 4.0553283	total: 26s	remaining: 4.51s
852:	learn: 4.0539046	total: 26s	remaining: 4.48s
853:	learn: 4.0479943	total: 26s	remaining: 4.44s
854:	learn: 4.0401480	total: 26.1s	remaining: 4.42s
855:	learn: 4.0385800	total: 26.1s	remaining: 4.38s
856:	learn: 4.0346116	total: 26.1s	remaining: 4.35s
857:	learn: 4.0282442	total: 26.2s	remaining: 4.33s
858:	learn: 4.0236984	total: 26.2s	remaining: 4.29s
859:	learn: 4.0210505	total: 26.2s	remaining: 4.26s
860:	learn: 4.0148233	total: 26.3s	remaining: 4.24s
861:	learn: 4.0082831	total: 26.3s	remaining: 4.2s
862:	learn: 4.0039074	total: 26.3s	remaining: 4.17s
863:	learn: 4.0000653	total: 26.4s	remaining: 4.15s
864:	learn: 3.9959281	total: 26.4s	remaining: 4.11s
865:	learn: 3.9907005	total: 26.4s	remaining: 4.08s
866:	learn: 3.9829364	total: 26.5s	remaining: 4.06s
867:	learn: 3.9814398	total: 26.5s	remaining: 4.02s
868:	learn: 3.9742869	total: 26.5s	remaining: 3.99s
869:	learn: 3.9664451	total: 26.5s	remaining: 3.95s
870:	learn: 3.9642540	total: 26.5s	remaining: 3.93s
871:	learn: 3.9598284	total: 26.6s	remaining: 3.9s
872:	learn: 3.9515222	total: 26.6s	remaining: 3.86s
873:	learn: 3.9452690	total: 26.6s	remaining: 3.84s
874:	learn: 3.9376127	total: 26.7s	remaining: 3.81s
875:	learn: 3.9372349	total: 26.7s	remaining: 3.77s
876:	learn: 3.9330429	total: 26.7s	remaining: 3.74s
877:	learn: 3.9297398	total: 26.7s	remaining: 3.72s
878:	learn: 3.9268080	total: 26.8s	remaining: 3.68s
879:	learn: 3.9202597	total: 26.8s	remaining: 3.66s
880:	learn: 3.9157937	total: 26.8s	remaining: 3.63s
881:	learn: 3.9078886	total: 26.9s	remaining: 3.59s

882:	learn: 3.9032498	total: 26.9s	remaining: 3.56s
883:	learn: 3.8948681	total: 26.9s	remaining: 3.54s
884:	learn: 3.8889752	total: 26.9s	remaining: 3.5s
885:	learn: 3.8821971	total: 27s	remaining: 3.47s
886:	learn: 3.8769531	total: 27s	remaining: 3.43s
887:	learn: 3.8729740	total: 27s	remaining: 3.41s
888:	learn: 3.8650767	total: 27s	remaining: 3.38s
889:	learn: 3.8603382	total: 27.1s	remaining: 3.35s
890:	learn: 3.8586008	total: 27.1s	remaining: 3.32s
891:	learn: 3.8517578	total: 27.1s	remaining: 3.29s
892:	learn: 3.8426664	total: 27.1s	remaining: 3.25s
893:	learn: 3.8400032	total: 27.2s	remaining: 3.23s
894:	learn: 3.8317915	total: 27.2s	remaining: 3.19s
895:	learn: 3.8258997	total: 27.2s	remaining: 3.16s
896:	learn: 3.8226437	total: 27.3s	remaining: 3.14s
897:	learn: 3.8194912	total: 27.3s	remaining: 3.1s
898:	learn: 3.8161375	total: 27.3s	remaining: 3.07s
899:	learn: 3.8093822	total: 27.4s	remaining: 3.05s
900:	learn: 3.8020290	total: 27.4s	remaining: 3.01s
901:	learn: 3.7981024	total: 27.4s	remaining: 2.98s
902:	learn: 3.7954901	total: 27.5s	remaining: 2.96s
903:	learn: 3.7912477	total: 27.5s	remaining: 2.92s
904:	learn: 3.7860647	total: 27.5s	remaining: 2.89s
905:	learn: 3.7814696	total: 27.6s	remaining: 2.87s
906:	learn: 3.7755223	total: 27.6s	remaining: 2.83s
907:	learn: 3.7713836	total: 27.6s	remaining: 2.8s
908:	learn: 3.7679535	total: 27.7s	remaining: 2.77s
909:	learn: 3.7674934	total: 27.7s	remaining: 2.74s
910:	learn: 3.7624533	total: 27.7s	remaining: 2.71s
911:	learn: 3.7552210	total: 27.8s	remaining: 2.68s
912:	learn: 3.7525529	total: 27.8s	remaining: 2.65s
913:	learn: 3.7463242	total: 27.8s	remaining: 2.62s
914:	learn: 3.7423187	total: 27.9s	remaining: 2.59s
915:	learn: 3.7393477	total: 27.9s	remaining: 2.56s
916:	learn: 3.7283656	total: 27.9s	remaining: 2.53s
917:	learn: 3.7227245	total: 28s	remaining: 2.5s
918:	learn: 3.7207544	total: 28s	remaining: 2.47s
919:	learn: 3.7166547	total: 28s	remaining: 2.44s
920:	learn: 3.7114626	total: 28s	remaining: 2.4s
921:	learn: 3.7069301	total: 28.1s	remaining: 2.38s
922:	learn: 3.7035280	total: 28.1s	remaining: 2.35s
923:	learn: 3.6998939	total: 28.1s	remaining: 2.31s
924:	learn: 3.6949564	total: 28.2s	remaining: 2.29s
925:	learn: 3.6899952	total: 28.2s	remaining: 2.25s
926:	learn: 3.6834388	total: 28.2s	remaining: 2.22s
927:	learn: 3.6810999	total: 28.3s	remaining: 2.2s
928:	learn: 3.6763121	total: 28.3s	remaining: 2.16s
929:	learn: 3.6706816	total: 28.3s	remaining: 2.13s
930:	learn: 3.6641586	total: 28.4s	remaining: 2.1s
931:	learn: 3.6564687	total: 28.4s	remaining: 2.07s
932:	learn: 3.6525882	total: 28.4s	remaining: 2.04s
933:	learn: 3.6487273	total: 28.5s	remaining: 2.01s
934:	learn: 3.6427725	total: 28.5s	remaining: 1.98s
935:	learn: 3.6424589	total: 28.5s	remaining: 1.95s
936:	learn: 3.6415639	total: 28.6s	remaining: 1.92s
937:	learn: 3.6346382	total: 28.6s	remaining: 1.89s
938:	learn: 3.6343011	total: 28.6s	remaining: 1.86s
939:	learn: 3.6275540	total: 28.7s	remaining: 1.83s
940:	learn: 3.6232540	total: 28.7s	remaining: 1.8s
941:	learn: 3.6173070	total: 28.7s	remaining: 1.77s
942:	learn: 3.6148011	total: 28.8s	remaining: 1.74s

943:	learn: 3.6071993	total: 28.8s	remaining: 1.71s
944:	learn: 3.6048447	total: 28.8s	remaining: 1.68s
945:	learn: 3.5994663	total: 28.9s	remaining: 1.65s
946:	learn: 3.5981871	total: 28.9s	remaining: 1.62s
947:	learn: 3.5968506	total: 28.9s	remaining: 1.58s
948:	learn: 3.5926532	total: 28.9s	remaining: 1.55s
949:	learn: 3.5884138	total: 29s	remaining: 1.53s
950:	learn: 3.5832936	total: 29s	remaining: 1.49s
951:	learn: 3.5778448	total: 29s	remaining: 1.46s
952:	learn: 3.5747630	total: 29.1s	remaining: 1.44s
953:	learn: 3.5684402	total: 29.1s	remaining: 1.4s
954:	learn: 3.5667559	total: 29.1s	remaining: 1.37s
955:	learn: 3.5614603	total: 29.2s	remaining: 1.34s
956:	learn: 3.5584421	total: 29.2s	remaining: 1.31s
957:	learn: 3.5537559	total: 29.2s	remaining: 1.28s
958:	learn: 3.5492287	total: 29.2s	remaining: 1.25s
959:	learn: 3.5467679	total: 29.3s	remaining: 1.22s
960:	learn: 3.5429327	total: 29.3s	remaining: 1.19s
961:	learn: 3.5367613	total: 29.3s	remaining: 1.16s
962:	learn: 3.5324024	total: 29.4s	remaining: 1.13s
963:	learn: 3.5318096	total: 29.4s	remaining: 1.1s
964:	learn: 3.5272514	total: 29.4s	remaining: 1.07s
965:	learn: 3.5235017	total: 29.5s	remaining: 1.04s
966:	learn: 3.5159353	total: 29.5s	remaining: 1.01s
967:	learn: 3.5142866	total: 29.5s	remaining: 975ms
968:	learn: 3.5070608	total: 29.6s	remaining: 947ms
969:	learn: 3.5010598	total: 29.6s	remaining: 915ms
970:	learn: 3.4971132	total: 29.6s	remaining: 884ms
971:	learn: 3.4936104	total: 29.7s	remaining: 855ms
972:	learn: 3.4884391	total: 29.7s	remaining: 824ms
973:	learn: 3.4814241	total: 29.7s	remaining: 793ms
974:	learn: 3.4754643	total: 29.8s	remaining: 764ms
975:	learn: 3.4736096	total: 29.8s	remaining: 733ms
976:	learn: 3.4668901	total: 29.8s	remaining: 701ms
977:	learn: 3.4614145	total: 29.8s	remaining: 670ms
978:	learn: 3.4565564	total: 29.9s	remaining: 641ms
979:	learn: 3.4470556	total: 29.9s	remaining: 610ms
980:	learn: 3.4399800	total: 29.9s	remaining: 579ms
981:	learn: 3.4375886	total: 30s	remaining: 550ms
982:	learn: 3.4364951	total: 30s	remaining: 519ms
983:	learn: 3.4334512	total: 30s	remaining: 488ms
984:	learn: 3.4294743	total: 30.1s	remaining: 458ms
985:	learn: 3.4248108	total: 30.1s	remaining: 427ms
986:	learn: 3.4214283	total: 30.1s	remaining: 396ms
987:	learn: 3.4157576	total: 30.2s	remaining: 367ms
988:	learn: 3.4095945	total: 30.2s	remaining: 336ms
989:	learn: 3.4071637	total: 30.2s	remaining: 305ms
990:	learn: 3.4050153	total: 30.2s	remaining: 274ms
991:	learn: 3.4014958	total: 30.3s	remaining: 244ms
992:	learn: 3.3944616	total: 30.3s	remaining: 213ms
993:	learn: 3.3881168	total: 30.3s	remaining: 183ms
994:	learn: 3.3835236	total: 30.4s	remaining: 153ms
995:	learn: 3.3808227	total: 30.4s	remaining: 122ms
996:	learn: 3.3777068	total: 30.4s	remaining: 91.4ms
997:	learn: 3.3731354	total: 30.5s	remaining: 61.1ms
998:	learn: 3.3649182	total: 30.5s	remaining: 30.5ms
999:	learn: 3.3587226	total: 30.5s	remaining: 0us
0:	learn: 14.4037316	total: 4.24ms	remaining: 4.24s
1:	learn: 14.0075632	total: 8.93ms	remaining: 4.46s
2:	learn: 13.6755736	total: 12.6ms	remaining: 4.2s
3:	learn: 13.3998094	total: 53.2ms	remaining: 13.2s

4:	learn: 13.1148474	total: 57.2ms	remaining: 11.4s
5:	learn: 12.8841867	total: 61.3ms	remaining: 10.2s
6:	learn: 12.6517203	total: 151ms	remaining: 21.5s
7:	learn: 12.4307908	total: 155ms	remaining: 19.3s
8:	learn: 12.2391694	total: 159ms	remaining: 17.5s
9:	learn: 12.0510432	total: 249ms	remaining: 24.7s
10:	learn: 11.8600803	total: 254ms	remaining: 22.9s
11:	learn: 11.7036188	total: 258ms	remaining: 21.3s
12:	learn: 11.5459107	total: 348ms	remaining: 26.4s
13:	learn: 11.3907789	total: 353ms	remaining: 24.8s
14:	learn: 11.2583122	total: 357ms	remaining: 23.4s
15:	learn: 11.1116132	total: 446ms	remaining: 27.4s
16:	learn: 11.0238656	total: 451ms	remaining: 26.1s
17:	learn: 10.9255917	total: 542ms	remaining: 29.6s
18:	learn: 10.8178126	total: 548ms	remaining: 28.3s
19:	learn: 10.7285051	total: 552ms	remaining: 27.1s
20:	learn: 10.6355689	total: 556ms	remaining: 25.9s
21:	learn: 10.5524927	total: 642ms	remaining: 28.5s
22:	learn: 10.4494046	total: 646ms	remaining: 27.4s
23:	learn: 10.3743281	total: 652ms	remaining: 26.5s
24:	learn: 10.3019634	total: 740ms	remaining: 28.8s
25:	learn: 10.2608493	total: 744ms	remaining: 27.9s
26:	learn: 10.1744349	total: 748ms	remaining: 26.9s
27:	learn: 10.1144141	total: 835ms	remaining: 29s
28:	learn: 10.0323665	total: 840ms	remaining: 28.1s
29:	learn: 9.9480409	total: 844ms	remaining: 27.3s
30:	learn: 9.8787517	total: 934ms	remaining: 29.2s
31:	learn: 9.8233620	total: 939ms	remaining: 28.4s
32:	learn: 9.7623081	total: 943ms	remaining: 27.6s
33:	learn: 9.7146156	total: 1.03s	remaining: 29.3s
34:	learn: 9.6649734	total: 1.04s	remaining: 28.8s
35:	learn: 9.6190610	total: 1.05s	remaining: 28.1s
36:	learn: 9.5682698	total: 1.13s	remaining: 29.4s
37:	learn: 9.5116501	total: 1.13s	remaining: 28.7s
38:	learn: 9.4677709	total: 1.14s	remaining: 28.1s
39:	learn: 9.4153845	total: 1.14s	remaining: 27.5s
40:	learn: 9.3916455	total: 1.23s	remaining: 28.8s
41:	learn: 9.3652317	total: 1.23s	remaining: 28.2s
42:	learn: 9.3424176	total: 1.24s	remaining: 27.6s
43:	learn: 9.2970252	total: 1.32s	remaining: 28.8s
44:	learn: 9.2479582	total: 1.33s	remaining: 28.2s
45:	learn: 9.2197258	total: 1.33s	remaining: 27.7s
46:	learn: 9.1834501	total: 1.42s	remaining: 28.9s
47:	learn: 9.1392835	total: 1.43s	remaining: 28.3s
48:	learn: 9.1025595	total: 1.43s	remaining: 27.8s
49:	learn: 9.0763141	total: 1.52s	remaining: 28.9s
50:	learn: 9.0309604	total: 1.52s	remaining: 28.4s
51:	learn: 8.9821775	total: 1.53s	remaining: 27.9s
52:	learn: 8.9393899	total: 1.62s	remaining: 29s
53:	learn: 8.9018928	total: 1.63s	remaining: 28.5s
54:	learn: 8.8684886	total: 1.63s	remaining: 28s
55:	learn: 8.8179464	total: 1.72s	remaining: 29s
56:	learn: 8.7514977	total: 1.72s	remaining: 28.5s
57:	learn: 8.7035424	total: 1.73s	remaining: 28.1s
58:	learn: 8.6481073	total: 1.82s	remaining: 29s
59:	learn: 8.6149921	total: 1.82s	remaining: 28.6s
60:	learn: 8.5846849	total: 1.83s	remaining: 28.2s
61:	learn: 8.5459441	total: 1.92s	remaining: 29s
62:	learn: 8.5028671	total: 1.92s	remaining: 28.6s
63:	learn: 8.4371682	total: 1.92s	remaining: 28.1s
64:	learn: 8.3853486	total: 2.01s	remaining: 28.9s

65:	learn: 8.3318222	total: 2.02s	remaining: 28.5s
66:	learn: 8.3083700	total: 2.02s	remaining: 28.2s
67:	learn: 8.2773910	total: 2.11s	remaining: 28.9s
68:	learn: 8.2410002	total: 2.12s	remaining: 28.5s
69:	learn: 8.2106974	total: 2.12s	remaining: 28.2s
70:	learn: 8.1836983	total: 2.21s	remaining: 28.9s
71:	learn: 8.1343884	total: 2.21s	remaining: 28.5s
72:	learn: 8.1222964	total: 2.21s	remaining: 28.1s
73:	learn: 8.0800920	total: 2.3s	remaining: 28.8s
74:	learn: 8.0335564	total: 2.31s	remaining: 28.5s
75:	learn: 7.9671372	total: 2.31s	remaining: 28.1s
76:	learn: 7.9262934	total: 2.4s	remaining: 28.8s
77:	learn: 7.8983033	total: 2.41s	remaining: 28.5s
78:	learn: 7.8611168	total: 2.41s	remaining: 28.1s
79:	learn: 7.8112572	total: 2.42s	remaining: 27.8s
80:	learn: 7.7695650	total: 2.5s	remaining: 28.4s
81:	learn: 7.7461372	total: 2.51s	remaining: 28.1s
82:	learn: 7.7395701	total: 2.51s	remaining: 27.7s
83:	learn: 7.6919540	total: 2.6s	remaining: 28.4s
84:	learn: 7.6521513	total: 2.6s	remaining: 28s
85:	learn: 7.6157924	total: 2.61s	remaining: 27.8s
86:	learn: 7.5584505	total: 2.7s	remaining: 28.3s
87:	learn: 7.5099580	total: 2.7s	remaining: 28s
88:	learn: 7.4528346	total: 2.71s	remaining: 27.7s
89:	learn: 7.4326544	total: 2.8s	remaining: 28.3s
90:	learn: 7.4032852	total: 2.8s	remaining: 28s
91:	learn: 7.3573903	total: 2.8s	remaining: 27.7s
92:	learn: 7.3468607	total: 2.89s	remaining: 28.2s
93:	learn: 7.3394555	total: 2.9s	remaining: 27.9s
94:	learn: 7.3293982	total: 2.9s	remaining: 27.6s
95:	learn: 7.2768487	total: 2.99s	remaining: 28.2s
96:	learn: 7.2448125	total: 3s	remaining: 27.9s
97:	learn: 7.2082700	total: 3s	remaining: 27.6s
98:	learn: 7.1388126	total: 3s	remaining: 27.3s
99:	learn: 7.1298762	total: 3.09s	remaining: 27.8s
100:	learn: 7.0731597	total: 3.1s	remaining: 27.5s
101:	learn: 7.0104270	total: 3.1s	remaining: 27.3s
102:	learn: 7.0038402	total: 3.19s	remaining: 27.8s
103:	learn: 6.9862717	total: 3.19s	remaining: 27.5s
104:	learn: 6.9321254	total: 3.2s	remaining: 27.3s
105:	learn: 6.8898737	total: 3.29s	remaining: 27.7s
106:	learn: 6.8520703	total: 3.29s	remaining: 27.5s
107:	learn: 6.8324478	total: 3.3s	remaining: 27.2s
108:	learn: 6.7855073	total: 3.38s	remaining: 27.7s
109:	learn: 6.7801693	total: 3.39s	remaining: 27.4s
110:	learn: 6.7389613	total: 3.39s	remaining: 27.2s
111:	learn: 6.7077935	total: 3.48s	remaining: 27.6s
112:	learn: 6.6604840	total: 3.48s	remaining: 27.3s
113:	learn: 6.6553304	total: 3.49s	remaining: 27.1s
114:	learn: 6.6494002	total: 3.58s	remaining: 27.5s
115:	learn: 6.5803863	total: 3.58s	remaining: 27.3s
116:	learn: 6.5276856	total: 3.59s	remaining: 27.1s
117:	learn: 6.4805941	total: 3.59s	remaining: 26.8s
118:	learn: 6.4507619	total: 3.68s	remaining: 27.2s
119:	learn: 6.4364438	total: 3.68s	remaining: 27s
120:	learn: 6.4228209	total: 3.69s	remaining: 26.8s
121:	learn: 6.4178877	total: 3.78s	remaining: 27.2s
122:	learn: 6.3769938	total: 3.78s	remaining: 27s
123:	learn: 6.3415060	total: 3.79s	remaining: 26.7s
124:	learn: 6.3079879	total: 3.87s	remaining: 27.1s
125:	learn: 6.2847038	total: 3.88s	remaining: 26.9s

126:	learn: 6.2381364	total: 3.88s	remaining: 26.7s
127:	learn: 6.2080257	total: 3.97s	remaining: 27s
128:	learn: 6.1855612	total: 3.97s	remaining: 26.8s
129:	learn: 6.1423840	total: 3.98s	remaining: 26.6s
130:	learn: 6.1138553	total: 4.07s	remaining: 27s
131:	learn: 6.0948249	total: 4.07s	remaining: 26.8s
132:	learn: 6.0540855	total: 4.08s	remaining: 26.6s
133:	learn: 6.0273413	total: 4.17s	remaining: 26.9s
134:	learn: 6.0221695	total: 4.17s	remaining: 26.7s
135:	learn: 5.9743174	total: 4.17s	remaining: 26.5s
136:	learn: 5.9353381	total: 4.26s	remaining: 26.9s
137:	learn: 5.9307553	total: 4.27s	remaining: 26.7s
138:	learn: 5.8875554	total: 4.27s	remaining: 26.5s
139:	learn: 5.8610175	total: 4.36s	remaining: 26.8s
140:	learn: 5.8269146	total: 4.37s	remaining: 26.6s
141:	learn: 5.8037962	total: 4.37s	remaining: 26.4s
142:	learn: 5.7927389	total: 4.38s	remaining: 26.3s
143:	learn: 5.7534905	total: 4.46s	remaining: 26.5s
144:	learn: 5.7152523	total: 4.47s	remaining: 26.3s
145:	learn: 5.6737209	total: 4.56s	remaining: 26.7s
146:	learn: 5.6522829	total: 4.56s	remaining: 26.5s
147:	learn: 5.6207998	total: 4.57s	remaining: 26.3s
148:	learn: 5.6150902	total: 4.57s	remaining: 26.1s
149:	learn: 5.6096619	total: 4.66s	remaining: 26.4s
150:	learn: 5.5906543	total: 4.66s	remaining: 26.2s
151:	learn: 5.5486662	total: 4.67s	remaining: 26s
152:	learn: 5.5175082	total: 4.75s	remaining: 26.3s
153:	learn: 5.4919279	total: 4.77s	remaining: 26.2s
154:	learn: 5.4666195	total: 4.85s	remaining: 26.4s
155:	learn: 5.4537355	total: 4.86s	remaining: 26.3s
156:	learn: 5.4334344	total: 4.86s	remaining: 26.1s
157:	learn: 5.4298579	total: 4.94s	remaining: 26.3s
158:	learn: 5.4070231	total: 4.95s	remaining: 26.2s
159:	learn: 5.4034526	total: 4.95s	remaining: 26s
160:	learn: 5.3779675	total: 5.04s	remaining: 26.3s
161:	learn: 5.3590547	total: 5.05s	remaining: 26.1s
162:	learn: 5.3401441	total: 5.05s	remaining: 25.9s
163:	learn: 5.3170827	total: 5.14s	remaining: 26.2s
164:	learn: 5.2817829	total: 5.14s	remaining: 26s
165:	learn: 5.2291902	total: 5.15s	remaining: 25.9s
166:	learn: 5.1844787	total: 5.24s	remaining: 26.1s
167:	learn: 5.1653031	total: 5.24s	remaining: 26s
168:	learn: 5.1629992	total: 5.25s	remaining: 25.8s
169:	learn: 5.1569687	total: 5.25s	remaining: 25.6s
170:	learn: 5.1371641	total: 5.34s	remaining: 25.9s
171:	learn: 5.0992319	total: 5.34s	remaining: 25.7s
172:	learn: 5.0527119	total: 5.35s	remaining: 25.6s
173:	learn: 5.0294306	total: 5.43s	remaining: 25.8s
174:	learn: 4.9894719	total: 5.44s	remaining: 25.6s
175:	learn: 4.9623849	total: 5.45s	remaining: 25.5s
176:	learn: 4.9272396	total: 5.53s	remaining: 25.7s
177:	learn: 4.8999246	total: 5.54s	remaining: 25.6s
178:	learn: 4.8846062	total: 5.54s	remaining: 25.4s
179:	learn: 4.8550266	total: 5.63s	remaining: 25.7s
180:	learn: 4.8116756	total: 5.63s	remaining: 25.5s
181:	learn: 4.7916323	total: 5.64s	remaining: 25.3s
182:	learn: 4.7894579	total: 5.73s	remaining: 25.6s
183:	learn: 4.7657672	total: 5.73s	remaining: 25.4s
184:	learn: 4.7482531	total: 5.74s	remaining: 25.3s
185:	learn: 4.7098326	total: 5.83s	remaining: 25.5s
186:	learn: 4.6826130	total: 5.83s	remaining: 25.4s

187:	learn: 4.6383331	total: 5.83s	remaining: 25.2s
188:	learn: 4.6365932	total: 5.92s	remaining: 25.4s
189:	learn: 4.6205615	total: 5.93s	remaining: 25.3s
190:	learn: 4.6001190	total: 5.93s	remaining: 25.1s
191:	learn: 4.5719283	total: 6.02s	remaining: 25.3s
192:	learn: 4.5444103	total: 6.03s	remaining: 25.2s
193:	learn: 4.5311379	total: 6.03s	remaining: 25.1s
194:	learn: 4.5101470	total: 6.12s	remaining: 25.3s
195:	learn: 4.4884570	total: 6.13s	remaining: 25.1s
196:	learn: 4.4730865	total: 6.13s	remaining: 25s
197:	learn: 4.4436312	total: 6.22s	remaining: 25.2s
198:	learn: 4.4210517	total: 6.22s	remaining: 25.1s
199:	learn: 4.4013189	total: 6.23s	remaining: 24.9s
200:	learn: 4.3772242	total: 6.32s	remaining: 25.1s
201:	learn: 4.3635650	total: 6.32s	remaining: 25s
202:	learn: 4.3447899	total: 6.33s	remaining: 24.9s
203:	learn: 4.3264970	total: 6.42s	remaining: 25s
204:	learn: 4.3043317	total: 6.42s	remaining: 24.9s
205:	learn: 4.2888545	total: 6.42s	remaining: 24.8s
206:	learn: 4.2652973	total: 6.51s	remaining: 25s
207:	learn: 4.2551077	total: 6.52s	remaining: 24.8s
208:	learn: 4.2432400	total: 6.52s	remaining: 24.7s
209:	learn: 4.2126020	total: 6.61s	remaining: 24.9s
210:	learn: 4.1970472	total: 6.62s	remaining: 24.7s
211:	learn: 4.1579494	total: 6.62s	remaining: 24.6s
212:	learn: 4.1336328	total: 6.71s	remaining: 24.8s
213:	learn: 4.1320156	total: 6.71s	remaining: 24.7s
214:	learn: 4.1082963	total: 6.72s	remaining: 24.5s
215:	learn: 4.0963110	total: 6.8s	remaining: 24.7s
216:	learn: 4.0675381	total: 6.81s	remaining: 24.6s
217:	learn: 4.0425016	total: 6.81s	remaining: 24.4s
218:	learn: 4.0163327	total: 6.9s	remaining: 24.6s
219:	learn: 3.9786971	total: 6.91s	remaining: 24.5s
220:	learn: 3.9542303	total: 6.91s	remaining: 24.4s
221:	learn: 3.9453216	total: 7s	remaining: 24.5s
222:	learn: 3.9267988	total: 7.01s	remaining: 24.4s
223:	learn: 3.9159583	total: 7.01s	remaining: 24.3s
224:	learn: 3.9097189	total: 7.01s	remaining: 24.2s
225:	learn: 3.8907230	total: 7.1s	remaining: 24.3s
226:	learn: 3.8668716	total: 7.11s	remaining: 24.2s
227:	learn: 3.8652453	total: 7.11s	remaining: 24.1s
228:	learn: 3.8462918	total: 7.2s	remaining: 24.2s
229:	learn: 3.8149890	total: 7.2s	remaining: 24.1s
230:	learn: 3.8030194	total: 7.21s	remaining: 24s
231:	learn: 3.7917927	total: 7.3s	remaining: 24.2s
232:	learn: 3.7859350	total: 7.3s	remaining: 24s
233:	learn: 3.7841098	total: 7.31s	remaining: 23.9s
234:	learn: 3.7683574	total: 7.31s	remaining: 23.8s
235:	learn: 3.7578977	total: 7.4s	remaining: 24s
236:	learn: 3.7431456	total: 7.4s	remaining: 23.8s
237:	learn: 3.7194835	total: 7.41s	remaining: 23.7s
238:	learn: 3.7183043	total: 7.5s	remaining: 23.9s
239:	learn: 3.7141500	total: 7.5s	remaining: 23.7s
240:	learn: 3.6944679	total: 7.51s	remaining: 23.6s
241:	learn: 3.6785859	total: 7.59s	remaining: 23.8s
242:	learn: 3.6600307	total: 7.6s	remaining: 23.7s
243:	learn: 3.6588335	total: 7.6s	remaining: 23.6s
244:	learn: 3.6423554	total: 7.69s	remaining: 23.7s
245:	learn: 3.6290384	total: 7.69s	remaining: 23.6s
246:	learn: 3.6084393	total: 7.7s	remaining: 23.5s
247:	learn: 3.5935073	total: 7.79s	remaining: 23.6s

248:	learn: 3.5735199	total: 7.79s	remaining: 23.5s
249:	learn: 3.5721856	total: 7.8s	remaining: 23.4s
250:	learn: 3.5570900	total: 7.89s	remaining: 23.5s
251:	learn: 3.5436100	total: 7.89s	remaining: 23.4s
252:	learn: 3.5209905	total: 7.89s	remaining: 23.3s
253:	learn: 3.5147645	total: 7.99s	remaining: 23.5s
254:	learn: 3.5097799	total: 7.99s	remaining: 23.3s
255:	learn: 3.5085496	total: 8s	remaining: 23.2s
256:	learn: 3.5076497	total: 8.08s	remaining: 23.4s
257:	learn: 3.5019717	total: 8.09s	remaining: 23.3s
258:	learn: 3.4916737	total: 8.09s	remaining: 23.2s
259:	learn: 3.4836728	total: 8.18s	remaining: 23.3s
260:	learn: 3.4650280	total: 8.19s	remaining: 23.2s
261:	learn: 3.4516618	total: 8.19s	remaining: 23.1s
262:	learn: 3.4301110	total: 8.28s	remaining: 23.2s
263:	learn: 3.4229423	total: 8.29s	remaining: 23.1s
264:	learn: 3.4156629	total: 8.29s	remaining: 23s
265:	learn: 3.4018624	total: 8.29s	remaining: 22.9s
266:	learn: 3.3855394	total: 8.38s	remaining: 23s
267:	learn: 3.3700356	total: 8.38s	remaining: 22.9s
268:	learn: 3.3519782	total: 8.39s	remaining: 22.8s
269:	learn: 3.3311866	total: 8.48s	remaining: 22.9s
270:	learn: 3.3160840	total: 8.48s	remaining: 22.8s
271:	learn: 3.3127727	total: 8.48s	remaining: 22.7s
272:	learn: 3.2930541	total: 8.57s	remaining: 22.8s
273:	learn: 3.2790235	total: 8.58s	remaining: 22.7s
274:	learn: 3.2698369	total: 8.58s	remaining: 22.6s
275:	learn: 3.2511309	total: 8.67s	remaining: 22.8s
276:	learn: 3.2376105	total: 8.68s	remaining: 22.7s
277:	learn: 3.2140911	total: 8.68s	remaining: 22.6s
278:	learn: 3.2095677	total: 8.77s	remaining: 22.7s
279:	learn: 3.2039550	total: 8.78s	remaining: 22.6s
280:	learn: 3.1845920	total: 8.78s	remaining: 22.5s
281:	learn: 3.1709029	total: 8.87s	remaining: 22.6s
282:	learn: 3.1623402	total: 8.88s	remaining: 22.5s
283:	learn: 3.1514604	total: 8.88s	remaining: 22.4s
284:	learn: 3.1405447	total: 8.97s	remaining: 22.5s
285:	learn: 3.1161964	total: 8.97s	remaining: 22.4s
286:	learn: 3.1153768	total: 8.98s	remaining: 22.3s
287:	learn: 3.0795727	total: 8.98s	remaining: 22.2s
288:	learn: 3.0554967	total: 9.07s	remaining: 22.3s
289:	learn: 3.0312340	total: 9.07s	remaining: 22.2s
290:	learn: 3.0107008	total: 9.08s	remaining: 22.1s
291:	learn: 2.9915725	total: 9.17s	remaining: 22.2s
292:	learn: 2.9806980	total: 9.17s	remaining: 22.1s
293:	learn: 2.9712417	total: 9.18s	remaining: 22s
294:	learn: 2.9524943	total: 9.27s	remaining: 22.1s
295:	learn: 2.9292735	total: 9.27s	remaining: 22s
296:	learn: 2.9076384	total: 9.27s	remaining: 22s
297:	learn: 2.8974289	total: 9.37s	remaining: 22.1s
298:	learn: 2.8884813	total: 9.37s	remaining: 22s
299:	learn: 2.8819147	total: 9.37s	remaining: 21.9s
300:	learn: 2.8810309	total: 9.46s	remaining: 22s
301:	learn: 2.8765907	total: 9.46s	remaining: 21.9s
302:	learn: 2.8631049	total: 9.47s	remaining: 21.8s
303:	learn: 2.8522520	total: 9.56s	remaining: 21.9s
304:	learn: 2.8431307	total: 9.56s	remaining: 21.8s
305:	learn: 2.8263024	total: 9.57s	remaining: 21.7s
306:	learn: 2.7989528	total: 9.57s	remaining: 21.6s
307:	learn: 2.7851439	total: 9.67s	remaining: 21.7s
308:	learn: 2.7730028	total: 9.67s	remaining: 21.6s

309:	learn: 2.7721167	total: 9.76s	remaining: 21.7s
310:	learn: 2.7562367	total: 9.76s	remaining: 21.6s
311:	learn: 2.7469852	total: 9.76s	remaining: 21.5s
312:	learn: 2.7428103	total: 9.77s	remaining: 21.4s
313:	learn: 2.7335162	total: 9.86s	remaining: 21.5s
314:	learn: 2.7165817	total: 9.86s	remaining: 21.4s
315:	learn: 2.7039464	total: 9.87s	remaining: 21.4s
316:	learn: 2.6860020	total: 9.95s	remaining: 21.4s
317:	learn: 2.6719325	total: 9.96s	remaining: 21.4s
318:	learn: 2.6501582	total: 9.96s	remaining: 21.3s
319:	learn: 2.6396615	total: 10.1s	remaining: 21.4s
320:	learn: 2.6222088	total: 10.1s	remaining: 21.3s
321:	learn: 2.6080178	total: 10.1s	remaining: 21.2s
322:	learn: 2.6012302	total: 10.1s	remaining: 21.3s
323:	learn: 2.5975860	total: 10.2s	remaining: 21.2s
324:	learn: 2.5843717	total: 10.2s	remaining: 21.1s
325:	learn: 2.5711712	total: 10.2s	remaining: 21.2s
326:	learn: 2.5652029	total: 10.3s	remaining: 21.1s
327:	learn: 2.5595370	total: 10.3s	remaining: 21s
328:	learn: 2.5453260	total: 10.3s	remaining: 20.9s
329:	learn: 2.5289085	total: 10.3s	remaining: 21s
330:	learn: 2.5163007	total: 10.4s	remaining: 20.9s
331:	learn: 2.5058063	total: 10.4s	remaining: 20.8s
332:	learn: 2.4913956	total: 10.4s	remaining: 20.9s
333:	learn: 2.4888191	total: 10.4s	remaining: 20.8s
334:	learn: 2.4745716	total: 10.5s	remaining: 20.7s
335:	learn: 2.4608326	total: 10.5s	remaining: 20.8s
336:	learn: 2.4570278	total: 10.5s	remaining: 20.7s
337:	learn: 2.4494313	total: 10.6s	remaining: 20.7s
338:	learn: 2.4486804	total: 10.6s	remaining: 20.7s
339:	learn: 2.4393232	total: 10.6s	remaining: 20.7s
340:	learn: 2.4333255	total: 10.7s	remaining: 20.6s
341:	learn: 2.4180123	total: 10.7s	remaining: 20.7s
342:	learn: 2.3965747	total: 10.7s	remaining: 20.6s
343:	learn: 2.3806801	total: 10.7s	remaining: 20.5s
344:	learn: 2.3634478	total: 10.8s	remaining: 20.6s
345:	learn: 2.3566801	total: 10.8s	remaining: 20.5s
346:	learn: 2.3448968	total: 10.8s	remaining: 20.4s
347:	learn: 2.3340925	total: 10.9s	remaining: 20.5s
348:	learn: 2.3269320	total: 10.9s	remaining: 20.4s
349:	learn: 2.3177494	total: 10.9s	remaining: 20.3s
350:	learn: 2.3088847	total: 11s	remaining: 20.4s
351:	learn: 2.3036339	total: 11s	remaining: 20.3s
352:	learn: 2.2950778	total: 11s	remaining: 20.2s
353:	learn: 2.2869921	total: 11.1s	remaining: 20.3s
354:	learn: 2.2666623	total: 11.1s	remaining: 20.2s
355:	learn: 2.2579915	total: 11.1s	remaining: 20.1s
356:	learn: 2.2523817	total: 11.2s	remaining: 20.2s
357:	learn: 2.2382244	total: 11.2s	remaining: 20.1s
358:	learn: 2.2297461	total: 11.2s	remaining: 20.1s
359:	learn: 2.2206388	total: 11.3s	remaining: 20.1s
360:	learn: 2.2060689	total: 11.3s	remaining: 20.1s
361:	learn: 2.1964947	total: 11.3s	remaining: 20s
362:	learn: 2.1914260	total: 11.4s	remaining: 20s
363:	learn: 2.1790905	total: 11.4s	remaining: 20s
364:	learn: 2.1734675	total: 11.4s	remaining: 19.9s
365:	learn: 2.1681364	total: 11.5s	remaining: 20s
366:	learn: 2.1569095	total: 11.5s	remaining: 19.9s
367:	learn: 2.1435926	total: 11.5s	remaining: 19.8s
368:	learn: 2.1338684	total: 11.6s	remaining: 19.9s
369:	learn: 2.1249161	total: 11.6s	remaining: 19.8s

370:	learn: 2.1175263	total: 11.6s	remaining: 19.7s
371:	learn: 2.1104481	total: 11.7s	remaining: 19.8s
372:	learn: 2.1095657	total: 11.7s	remaining: 19.7s
373:	learn: 2.0968773	total: 11.7s	remaining: 19.6s
374:	learn: 2.0887808	total: 11.8s	remaining: 19.7s
375:	learn: 2.0793823	total: 11.8s	remaining: 19.6s
376:	learn: 2.0726311	total: 11.8s	remaining: 19.5s
377:	learn: 2.0673979	total: 11.8s	remaining: 19.5s
378:	learn: 2.0615049	total: 11.9s	remaining: 19.5s
379:	learn: 2.0490792	total: 11.9s	remaining: 19.4s
380:	learn: 2.0407401	total: 11.9s	remaining: 19.4s
381:	learn: 2.0301818	total: 12s	remaining: 19.4s
382:	learn: 2.0234049	total: 12s	remaining: 19.4s
383:	learn: 2.0053790	total: 12s	remaining: 19.3s
384:	learn: 2.0041093	total: 12.1s	remaining: 19.3s
385:	learn: 1.9962369	total: 12.1s	remaining: 19.3s
386:	learn: 1.9884154	total: 12.1s	remaining: 19.2s
387:	learn: 1.9785304	total: 12.2s	remaining: 19.3s
388:	learn: 1.9716737	total: 12.2s	remaining: 19.2s
389:	learn: 1.9711229	total: 12.2s	remaining: 19.1s
390:	learn: 1.9701997	total: 12.3s	remaining: 19.2s
391:	learn: 1.9598098	total: 12.3s	remaining: 19.1s
392:	learn: 1.9512445	total: 12.3s	remaining: 19s
393:	learn: 1.9493107	total: 12.4s	remaining: 19.1s
394:	learn: 1.9424353	total: 12.4s	remaining: 19s
395:	learn: 1.9328090	total: 12.4s	remaining: 18.9s
396:	learn: 1.9206950	total: 12.5s	remaining: 19s
397:	learn: 1.9148509	total: 12.5s	remaining: 18.9s
398:	learn: 1.9143464	total: 12.5s	remaining: 18.8s
399:	learn: 1.9072746	total: 12.6s	remaining: 18.9s
400:	learn: 1.9030227	total: 12.6s	remaining: 18.8s
401:	learn: 1.8888837	total: 12.6s	remaining: 18.8s
402:	learn: 1.8883913	total: 12.7s	remaining: 18.8s
403:	learn: 1.8767409	total: 12.7s	remaining: 18.7s
404:	learn: 1.8673946	total: 12.7s	remaining: 18.7s
405:	learn: 1.8670136	total: 12.7s	remaining: 18.6s
406:	learn: 1.8591758	total: 12.8s	remaining: 18.6s
407:	learn: 1.8517380	total: 12.8s	remaining: 18.6s
408:	learn: 1.8508224	total: 12.8s	remaining: 18.5s
409:	learn: 1.8499430	total: 12.9s	remaining: 18.6s
410:	learn: 1.8405393	total: 12.9s	remaining: 18.5s
411:	learn: 1.8354297	total: 12.9s	remaining: 18.4s
412:	learn: 1.8280715	total: 13s	remaining: 18.5s
413:	learn: 1.8167718	total: 13s	remaining: 18.4s
414:	learn: 1.8123652	total: 13s	remaining: 18.3s
415:	learn: 1.8059973	total: 13.1s	remaining: 18.4s
416:	learn: 1.7958138	total: 13.1s	remaining: 18.3s
417:	learn: 1.7786475	total: 13.1s	remaining: 18.2s
418:	learn: 1.7689502	total: 13.2s	remaining: 18.3s
419:	learn: 1.7627757	total: 13.2s	remaining: 18.2s
420:	learn: 1.7579087	total: 13.2s	remaining: 18.1s
421:	learn: 1.7515845	total: 13.3s	remaining: 18.2s
422:	learn: 1.7447934	total: 13.3s	remaining: 18.1s
423:	learn: 1.7399457	total: 13.3s	remaining: 18.1s
424:	learn: 1.7297544	total: 13.4s	remaining: 18.1s
425:	learn: 1.7244542	total: 13.4s	remaining: 18s
426:	learn: 1.7157187	total: 13.4s	remaining: 18s
427:	learn: 1.7074183	total: 13.5s	remaining: 18s
428:	learn: 1.7014468	total: 13.5s	remaining: 17.9s
429:	learn: 1.6931561	total: 13.5s	remaining: 17.9s
430:	learn: 1.6815509	total: 13.6s	remaining: 17.9s

431:	learn: 1.6744477	total: 13.6s	remaining: 17.9s
432:	learn: 1.6653601	total: 13.6s	remaining: 17.8s
433:	learn: 1.6622501	total: 13.7s	remaining: 17.8s
434:	learn: 1.6586962	total: 13.7s	remaining: 17.8s
435:	learn: 1.6524369	total: 13.7s	remaining: 17.7s
436:	learn: 1.6496548	total: 13.8s	remaining: 17.7s
437:	learn: 1.6451968	total: 13.8s	remaining: 17.7s
438:	learn: 1.6428636	total: 13.8s	remaining: 17.6s
439:	learn: 1.6377883	total: 13.9s	remaining: 17.7s
440:	learn: 1.6308433	total: 13.9s	remaining: 17.6s
441:	learn: 1.6220665	total: 13.9s	remaining: 17.5s
442:	learn: 1.6217328	total: 13.9s	remaining: 17.5s
443:	learn: 1.6179870	total: 14s	remaining: 17.5s
444:	learn: 1.6176622	total: 14s	remaining: 17.4s
445:	learn: 1.6100280	total: 14s	remaining: 17.4s
446:	learn: 1.6038666	total: 14.1s	remaining: 17.4s
447:	learn: 1.5996282	total: 14.1s	remaining: 17.3s
448:	learn: 1.5935794	total: 14.1s	remaining: 17.3s
449:	learn: 1.5862148	total: 14.2s	remaining: 17.3s
450:	learn: 1.5769012	total: 14.2s	remaining: 17.3s
451:	learn: 1.5723834	total: 14.2s	remaining: 17.2s
452:	learn: 1.5721322	total: 14.3s	remaining: 17.2s
453:	learn: 1.5633686	total: 14.3s	remaining: 17.2s
454:	learn: 1.5552165	total: 14.3s	remaining: 17.1s
455:	learn: 1.5502435	total: 14.4s	remaining: 17.1s
456:	learn: 1.5438267	total: 14.4s	remaining: 17.1s
457:	learn: 1.5435210	total: 14.4s	remaining: 17s
458:	learn: 1.5409464	total: 14.4s	remaining: 16.9s
459:	learn: 1.5326718	total: 14.5s	remaining: 17s
460:	learn: 1.5271637	total: 14.5s	remaining: 16.9s
461:	learn: 1.5199315	total: 14.5s	remaining: 16.9s
462:	learn: 1.5132353	total: 14.6s	remaining: 16.9s
463:	learn: 1.5109512	total: 14.6s	remaining: 16.8s
464:	learn: 1.5042634	total: 14.6s	remaining: 16.8s
465:	learn: 1.4955611	total: 14.7s	remaining: 16.8s
466:	learn: 1.4904985	total: 14.7s	remaining: 16.7s
467:	learn: 1.4839577	total: 14.7s	remaining: 16.7s
468:	learn: 1.4810711	total: 14.8s	remaining: 16.7s
469:	learn: 1.4735402	total: 14.8s	remaining: 16.6s
470:	learn: 1.4626174	total: 14.8s	remaining: 16.6s
471:	learn: 1.4623934	total: 14.9s	remaining: 16.6s
472:	learn: 1.4581562	total: 14.9s	remaining: 16.6s
473:	learn: 1.4516519	total: 14.9s	remaining: 16.5s
474:	learn: 1.4455610	total: 15s	remaining: 16.5s
475:	learn: 1.4337371	total: 15s	remaining: 16.5s
476:	learn: 1.4279572	total: 15s	remaining: 16.4s
477:	learn: 1.4188016	total: 15.1s	remaining: 16.4s
478:	learn: 1.4160587	total: 15.1s	remaining: 16.4s
479:	learn: 1.4157549	total: 15.1s	remaining: 16.3s
480:	learn: 1.4089246	total: 15.1s	remaining: 16.3s
481:	learn: 1.4039016	total: 15.2s	remaining: 16.3s
482:	learn: 1.4030527	total: 15.2s	remaining: 16.2s
483:	learn: 1.3978790	total: 15.2s	remaining: 16.3s
484:	learn: 1.3896583	total: 15.3s	remaining: 16.2s
485:	learn: 1.3835455	total: 15.3s	remaining: 16.1s
486:	learn: 1.3782538	total: 15.3s	remaining: 16.2s
487:	learn: 1.3724028	total: 15.3s	remaining: 16.1s
488:	learn: 1.3662878	total: 15.4s	remaining: 16s
489:	learn: 1.3612194	total: 15.4s	remaining: 16.1s
490:	learn: 1.3524072	total: 15.4s	remaining: 16s
491:	learn: 1.3446008	total: 15.5s	remaining: 16s

492:	learn: 1.3411259	total: 15.5s	remaining: 16s
493:	learn: 1.3362361	total: 15.5s	remaining: 15.9s
494:	learn: 1.3332152	total: 15.6s	remaining: 15.9s
495:	learn: 1.3249156	total: 15.6s	remaining: 15.9s
496:	learn: 1.3191859	total: 15.6s	remaining: 15.8s
497:	learn: 1.3116314	total: 15.6s	remaining: 15.8s
498:	learn: 1.3034492	total: 15.7s	remaining: 15.8s
499:	learn: 1.2995615	total: 15.7s	remaining: 15.7s
500:	learn: 1.2956043	total: 15.7s	remaining: 15.7s
501:	learn: 1.2917675	total: 15.8s	remaining: 15.7s
502:	learn: 1.2845236	total: 15.8s	remaining: 15.6s
503:	learn: 1.2761464	total: 15.8s	remaining: 15.6s
504:	learn: 1.2728874	total: 15.9s	remaining: 15.6s
505:	learn: 1.2658815	total: 15.9s	remaining: 15.6s
506:	learn: 1.2653121	total: 15.9s	remaining: 15.5s
507:	learn: 1.2616730	total: 16s	remaining: 15.5s
508:	learn: 1.2570827	total: 16s	remaining: 15.5s
509:	learn: 1.2506143	total: 16s	remaining: 15.4s
510:	learn: 1.2419887	total: 16.1s	remaining: 15.4s
511:	learn: 1.2401271	total: 16.1s	remaining: 15.4s
512:	learn: 1.2374291	total: 16.1s	remaining: 15.3s
513:	learn: 1.2305491	total: 16.1s	remaining: 15.3s
514:	learn: 1.2259782	total: 16.2s	remaining: 15.3s
515:	learn: 1.2171462	total: 16.2s	remaining: 15.2s
516:	learn: 1.2147484	total: 16.2s	remaining: 15.2s
517:	learn: 1.2100193	total: 16.3s	remaining: 15.2s
518:	learn: 1.2089919	total: 16.3s	remaining: 15.1s
519:	learn: 1.2039260	total: 16.3s	remaining: 15.1s
520:	learn: 1.1960576	total: 16.4s	remaining: 15.1s
521:	learn: 1.1909832	total: 16.4s	remaining: 15s
522:	learn: 1.1878729	total: 16.4s	remaining: 15s
523:	learn: 1.1840566	total: 16.5s	remaining: 15s
524:	learn: 1.1802223	total: 16.5s	remaining: 14.9s
525:	learn: 1.1757856	total: 16.5s	remaining: 14.9s
526:	learn: 1.1752625	total: 16.6s	remaining: 14.9s
527:	learn: 1.1712848	total: 16.6s	remaining: 14.9s
528:	learn: 1.1667850	total: 16.6s	remaining: 14.8s
529:	learn: 1.1602558	total: 16.6s	remaining: 14.7s
530:	learn: 1.1543404	total: 16.7s	remaining: 14.8s
531:	learn: 1.1497952	total: 16.7s	remaining: 14.7s
532:	learn: 1.1471993	total: 16.7s	remaining: 14.7s
533:	learn: 1.1400174	total: 16.8s	remaining: 14.7s
534:	learn: 1.1351430	total: 16.8s	remaining: 14.6s
535:	learn: 1.1329309	total: 16.8s	remaining: 14.6s
536:	learn: 1.1271377	total: 16.9s	remaining: 14.6s
537:	learn: 1.1203132	total: 16.9s	remaining: 14.5s
538:	learn: 1.1191658	total: 16.9s	remaining: 14.5s
539:	learn: 1.1187034	total: 17s	remaining: 14.5s
540:	learn: 1.1118162	total: 17s	remaining: 14.4s
541:	learn: 1.1079371	total: 17s	remaining: 14.4s
542:	learn: 1.1019434	total: 17.1s	remaining: 14.4s
543:	learn: 1.0979699	total: 17.1s	remaining: 14.3s
544:	learn: 1.0959063	total: 17.1s	remaining: 14.3s
545:	learn: 1.0908744	total: 17.2s	remaining: 14.3s
546:	learn: 1.0864662	total: 17.2s	remaining: 14.2s
547:	learn: 1.0818680	total: 17.2s	remaining: 14.2s
548:	learn: 1.0807437	total: 17.3s	remaining: 14.2s
549:	learn: 1.0736857	total: 17.3s	remaining: 14.2s
550:	learn: 1.0729909	total: 17.3s	remaining: 14.1s
551:	learn: 1.0684342	total: 17.4s	remaining: 14.1s
552:	learn: 1.0654097	total: 17.4s	remaining: 14.1s

553:	learn: 1.0599815	total: 17.4s	remaining: 14s
554:	learn: 1.0571947	total: 17.5s	remaining: 14s
555:	learn: 1.0509986	total: 17.5s	remaining: 14s
556:	learn: 1.0458344	total: 17.5s	remaining: 13.9s
557:	learn: 1.0403958	total: 17.6s	remaining: 13.9s
558:	learn: 1.0347600	total: 17.6s	remaining: 13.9s
559:	learn: 1.0343653	total: 17.6s	remaining: 13.8s
560:	learn: 1.0311142	total: 17.7s	remaining: 13.8s
561:	learn: 1.0258913	total: 17.7s	remaining: 13.8s
562:	learn: 1.0212621	total: 17.7s	remaining: 13.7s
563:	learn: 1.0145123	total: 17.8s	remaining: 13.8s
564:	learn: 1.0087159	total: 17.8s	remaining: 13.7s
565:	learn: 1.0060199	total: 17.8s	remaining: 13.6s
566:	learn: 1.0001968	total: 17.9s	remaining: 13.7s
567:	learn: 0.9956038	total: 17.9s	remaining: 13.6s
568:	learn: 0.9906189	total: 17.9s	remaining: 13.6s
569:	learn: 0.9877855	total: 18s	remaining: 13.6s
570:	learn: 0.9815711	total: 18s	remaining: 13.5s
571:	learn: 0.9780242	total: 18s	remaining: 13.5s
572:	learn: 0.9747036	total: 18.1s	remaining: 13.5s
573:	learn: 0.9683502	total: 18.1s	remaining: 13.4s
574:	learn: 0.9648706	total: 18.1s	remaining: 13.4s
575:	learn: 0.9610631	total: 18.2s	remaining: 13.4s
576:	learn: 0.9587294	total: 18.2s	remaining: 13.3s
577:	learn: 0.9545347	total: 18.2s	remaining: 13.3s
578:	learn: 0.9509030	total: 18.2s	remaining: 13.2s
579:	learn: 0.9440208	total: 18.3s	remaining: 13.2s
580:	learn: 0.9400767	total: 18.3s	remaining: 13.2s
581:	learn: 0.9344977	total: 18.3s	remaining: 13.1s
582:	learn: 0.9276493	total: 18.4s	remaining: 13.1s
583:	learn: 0.9255856	total: 18.4s	remaining: 13.1s
584:	learn: 0.9235139	total: 18.4s	remaining: 13s
585:	learn: 0.9192714	total: 18.5s	remaining: 13.1s
586:	learn: 0.9163138	total: 18.5s	remaining: 13s
587:	learn: 0.9138317	total: 18.5s	remaining: 12.9s
588:	learn: 0.9110086	total: 18.6s	remaining: 13s
589:	learn: 0.9108289	total: 18.6s	remaining: 12.9s
590:	learn: 0.9073408	total: 18.6s	remaining: 12.9s
591:	learn: 0.9052927	total: 18.7s	remaining: 12.9s
592:	learn: 0.9051579	total: 18.7s	remaining: 12.8s
593:	learn: 0.8985856	total: 18.7s	remaining: 12.8s
594:	learn: 0.8950341	total: 18.8s	remaining: 12.8s
595:	learn: 0.8857919	total: 18.8s	remaining: 12.7s
596:	learn: 0.8794847	total: 18.8s	remaining: 12.7s
597:	learn: 0.8757577	total: 18.9s	remaining: 12.7s
598:	learn: 0.8730115	total: 18.9s	remaining: 12.6s
599:	learn: 0.8708740	total: 18.9s	remaining: 12.6s
600:	learn: 0.8666774	total: 18.9s	remaining: 12.5s
601:	learn: 0.8646974	total: 19s	remaining: 12.5s
602:	learn: 0.8602544	total: 19s	remaining: 12.5s
603:	learn: 0.8572033	total: 19s	remaining: 12.4s
604:	learn: 0.8539789	total: 19.1s	remaining: 12.4s
605:	learn: 0.8482056	total: 19.1s	remaining: 12.4s
606:	learn: 0.8457682	total: 19.2s	remaining: 12.4s
607:	learn: 0.8399547	total: 19.2s	remaining: 12.4s
608:	learn: 0.8363468	total: 19.2s	remaining: 12.3s
609:	learn: 0.8357644	total: 19.2s	remaining: 12.3s
610:	learn: 0.8330484	total: 19.3s	remaining: 12.3s
611:	learn: 0.8287684	total: 19.3s	remaining: 12.2s
612:	learn: 0.8241091	total: 19.3s	remaining: 12.2s
613:	learn: 0.8216664	total: 19.4s	remaining: 12.2s

614:	learn: 0.8190560	total: 19.4s	remaining: 12.1s
615:	learn: 0.8176829	total: 19.4s	remaining: 12.1s
616:	learn: 0.8107569	total: 19.5s	remaining: 12.1s
617:	learn: 0.8038494	total: 19.5s	remaining: 12s
618:	learn: 0.7998476	total: 19.5s	remaining: 12s
619:	learn: 0.7969197	total: 19.6s	remaining: 12s
620:	learn: 0.7963991	total: 19.6s	remaining: 11.9s
621:	learn: 0.7936797	total: 19.6s	remaining: 11.9s
622:	learn: 0.7906198	total: 19.6s	remaining: 11.9s
623:	learn: 0.7879052	total: 19.7s	remaining: 11.8s
624:	learn: 0.7844857	total: 19.7s	remaining: 11.8s
625:	learn: 0.7823287	total: 19.7s	remaining: 11.8s
626:	learn: 0.7787415	total: 19.8s	remaining: 11.8s
627:	learn: 0.7765481	total: 19.8s	remaining: 11.7s
628:	learn: 0.7729228	total: 19.8s	remaining: 11.7s
629:	learn: 0.7706654	total: 19.9s	remaining: 11.7s
630:	learn: 0.7656280	total: 19.9s	remaining: 11.6s
631:	learn: 0.7641574	total: 19.9s	remaining: 11.6s
632:	learn: 0.7630890	total: 19.9s	remaining: 11.6s
633:	learn: 0.7627531	total: 20s	remaining: 11.5s
634:	learn: 0.7607682	total: 20s	remaining: 11.5s
635:	learn: 0.7605999	total: 20s	remaining: 11.5s
636:	learn: 0.7583604	total: 20.1s	remaining: 11.4s
637:	learn: 0.7540603	total: 20.1s	remaining: 11.4s
638:	learn: 0.7514340	total: 20.1s	remaining: 11.4s
639:	learn: 0.7504279	total: 20.1s	remaining: 11.3s
640:	learn: 0.7474664	total: 20.2s	remaining: 11.3s
641:	learn: 0.7452104	total: 20.2s	remaining: 11.3s
642:	learn: 0.7437368	total: 20.3s	remaining: 11.2s
643:	learn: 0.7393532	total: 20.3s	remaining: 11.2s
644:	learn: 0.7357799	total: 20.3s	remaining: 11.2s
645:	learn: 0.7318197	total: 20.3s	remaining: 11.2s
646:	learn: 0.7307202	total: 20.4s	remaining: 11.1s
647:	learn: 0.7282845	total: 20.4s	remaining: 11.1s
648:	learn: 0.7237006	total: 20.4s	remaining: 11.1s
649:	learn: 0.7211489	total: 20.4s	remaining: 11s
650:	learn: 0.7181709	total: 20.5s	remaining: 11s
651:	learn: 0.7162686	total: 20.5s	remaining: 11s
652:	learn: 0.7142376	total: 20.5s	remaining: 10.9s
653:	learn: 0.7113526	total: 20.6s	remaining: 10.9s
654:	learn: 0.7076572	total: 20.6s	remaining: 10.9s
655:	learn: 0.7041393	total: 20.6s	remaining: 10.8s
656:	learn: 0.7019637	total: 20.7s	remaining: 10.8s
657:	learn: 0.7000711	total: 20.7s	remaining: 10.8s
658:	learn: 0.6991114	total: 20.7s	remaining: 10.7s
659:	learn: 0.6967562	total: 20.8s	remaining: 10.7s
660:	learn: 0.6958031	total: 20.8s	remaining: 10.7s
661:	learn: 0.6917830	total: 20.8s	remaining: 10.6s
662:	learn: 0.6912776	total: 20.9s	remaining: 10.6s
663:	learn: 0.6865538	total: 20.9s	remaining: 10.6s
664:	learn: 0.6847150	total: 20.9s	remaining: 10.5s
665:	learn: 0.6810970	total: 21s	remaining: 10.5s
666:	learn: 0.6775041	total: 21s	remaining: 10.5s
667:	learn: 0.6730835	total: 21s	remaining: 10.5s
668:	learn: 0.6725134	total: 21.1s	remaining: 10.4s
669:	learn: 0.6705456	total: 21.1s	remaining: 10.4s
670:	learn: 0.6676580	total: 21.1s	remaining: 10.4s
671:	learn: 0.6657475	total: 21.2s	remaining: 10.4s
672:	learn: 0.6651191	total: 21.2s	remaining: 10.3s
673:	learn: 0.6611381	total: 21.2s	remaining: 10.3s
674:	learn: 0.6574955	total: 21.3s	remaining: 10.3s

675:	learn: 0.6557975	total: 21.3s	remaining: 10.2s
676:	learn: 0.6538526	total: 21.3s	remaining: 10.2s
677:	learn: 0.6524172	total: 21.4s	remaining: 10.2s
678:	learn: 0.6509016	total: 21.4s	remaining: 10.1s
679:	learn: 0.6494940	total: 21.4s	remaining: 10.1s
680:	learn: 0.6463154	total: 21.5s	remaining: 10.1s
681:	learn: 0.6433474	total: 21.5s	remaining: 10s
682:	learn: 0.6414482	total: 21.5s	remaining: 9.99s
683:	learn: 0.6387778	total: 21.5s	remaining: 9.94s
684:	learn: 0.6370675	total: 21.6s	remaining: 9.94s
685:	learn: 0.6354715	total: 21.6s	remaining: 9.89s
686:	learn: 0.6341845	total: 21.6s	remaining: 9.85s
687:	learn: 0.6332980	total: 21.7s	remaining: 9.84s
688:	learn: 0.6307437	total: 21.7s	remaining: 9.8s
689:	learn: 0.6274335	total: 21.7s	remaining: 9.76s
690:	learn: 0.6263452	total: 21.8s	remaining: 9.75s
691:	learn: 0.6251979	total: 21.8s	remaining: 9.71s
692:	learn: 0.6237744	total: 21.8s	remaining: 9.66s
693:	learn: 0.6224341	total: 21.9s	remaining: 9.65s
694:	learn: 0.6203834	total: 21.9s	remaining: 9.61s
695:	learn: 0.6202319	total: 21.9s	remaining: 9.57s
696:	learn: 0.6191645	total: 21.9s	remaining: 9.53s
697:	learn: 0.6161318	total: 22s	remaining: 9.52s
698:	learn: 0.6128924	total: 22s	remaining: 9.48s
699:	learn: 0.6106856	total: 22s	remaining: 9.43s
700:	learn: 0.6083370	total: 22.1s	remaining: 9.43s
701:	learn: 0.6076925	total: 22.1s	remaining: 9.38s
702:	learn: 0.6067802	total: 22.1s	remaining: 9.34s
703:	learn: 0.6027244	total: 22.2s	remaining: 9.33s
704:	learn: 0.6020269	total: 22.2s	remaining: 9.29s
705:	learn: 0.5986639	total: 22.2s	remaining: 9.25s
706:	learn: 0.5973361	total: 22.3s	remaining: 9.24s
707:	learn: 0.5972358	total: 22.3s	remaining: 9.2s
708:	learn: 0.5968634	total: 22.3s	remaining: 9.15s
709:	learn: 0.5957919	total: 22.4s	remaining: 9.14s
710:	learn: 0.5943988	total: 22.4s	remaining: 9.1s
711:	learn: 0.5903430	total: 22.4s	remaining: 9.06s
712:	learn: 0.5889794	total: 22.5s	remaining: 9.05s
713:	learn: 0.5867247	total: 22.5s	remaining: 9.01s
714:	learn: 0.5846591	total: 22.5s	remaining: 8.97s
715:	learn: 0.5817613	total: 22.6s	remaining: 8.96s
716:	learn: 0.5810028	total: 22.6s	remaining: 8.92s
717:	learn: 0.5795945	total: 22.6s	remaining: 8.88s
718:	learn: 0.5773062	total: 22.6s	remaining: 8.83s
719:	learn: 0.5747573	total: 22.7s	remaining: 8.82s
720:	learn: 0.5727084	total: 22.7s	remaining: 8.78s
721:	learn: 0.5710069	total: 22.7s	remaining: 8.74s
722:	learn: 0.5684050	total: 22.8s	remaining: 8.73s
723:	learn: 0.5661676	total: 22.8s	remaining: 8.69s
724:	learn: 0.5638543	total: 22.8s	remaining: 8.65s
725:	learn: 0.5598486	total: 22.9s	remaining: 8.64s
726:	learn: 0.5579544	total: 22.9s	remaining: 8.6s
727:	learn: 0.5561444	total: 22.9s	remaining: 8.55s
728:	learn: 0.5548294	total: 23s	remaining: 8.54s
729:	learn: 0.5532166	total: 23s	remaining: 8.5s
730:	learn: 0.5521050	total: 23s	remaining: 8.46s
731:	learn: 0.5520241	total: 23.1s	remaining: 8.45s
732:	learn: 0.5497683	total: 23.1s	remaining: 8.41s
733:	learn: 0.5480049	total: 23.1s	remaining: 8.37s
734:	learn: 0.5448504	total: 23.2s	remaining: 8.36s
735:	learn: 0.5415706	total: 23.2s	remaining: 8.31s

736:	learn: 0.5389978	total: 23.2s	remaining: 8.27s
737:	learn: 0.5375987	total: 23.3s	remaining: 8.26s
738:	learn: 0.5374747	total: 23.3s	remaining: 8.22s
739:	learn: 0.5357153	total: 23.3s	remaining: 8.18s
740:	learn: 0.5348240	total: 23.4s	remaining: 8.17s
741:	learn: 0.5321305	total: 23.4s	remaining: 8.13s
742:	learn: 0.5303809	total: 23.4s	remaining: 8.09s
743:	learn: 0.5266436	total: 23.5s	remaining: 8.08s
744:	learn: 0.5237661	total: 23.5s	remaining: 8.04s
745:	learn: 0.5222696	total: 23.5s	remaining: 8s
746:	learn: 0.5214723	total: 23.6s	remaining: 7.98s
747:	learn: 0.5207706	total: 23.6s	remaining: 7.94s
748:	learn: 0.5206987	total: 23.6s	remaining: 7.9s
749:	learn: 0.5165698	total: 23.7s	remaining: 7.89s
750:	learn: 0.5152003	total: 23.7s	remaining: 7.85s
751:	learn: 0.5151213	total: 23.7s	remaining: 7.81s
752:	learn: 0.5126423	total: 23.7s	remaining: 7.77s
753:	learn: 0.5093443	total: 23.8s	remaining: 7.75s
754:	learn: 0.5062393	total: 23.8s	remaining: 7.71s
755:	learn: 0.5019115	total: 23.8s	remaining: 7.67s
756:	learn: 0.4993861	total: 23.9s	remaining: 7.66s
757:	learn: 0.4971252	total: 23.9s	remaining: 7.62s
758:	learn: 0.4964824	total: 23.9s	remaining: 7.58s
759:	learn: 0.4964036	total: 23.9s	remaining: 7.54s
760:	learn: 0.4952891	total: 24s	remaining: 7.53s
761:	learn: 0.4951794	total: 24s	remaining: 7.49s
762:	learn: 0.4935168	total: 24s	remaining: 7.45s
763:	learn: 0.4908261	total: 24.1s	remaining: 7.43s
764:	learn: 0.4877805	total: 24.1s	remaining: 7.39s
765:	learn: 0.4848768	total: 24.1s	remaining: 7.35s
766:	learn: 0.4829123	total: 24.2s	remaining: 7.34s
767:	learn: 0.4809940	total: 24.2s	remaining: 7.3s
768:	learn: 0.4799601	total: 24.2s	remaining: 7.26s
769:	learn: 0.4766661	total: 24.3s	remaining: 7.25s
770:	learn: 0.4766044	total: 24.3s	remaining: 7.21s
771:	learn: 0.4746507	total: 24.3s	remaining: 7.17s
772:	learn: 0.4727423	total: 24.4s	remaining: 7.15s
773:	learn: 0.4724846	total: 24.4s	remaining: 7.11s
774:	learn: 0.4707360	total: 24.4s	remaining: 7.07s
775:	learn: 0.4680113	total: 24.5s	remaining: 7.06s
776:	learn: 0.4653260	total: 24.5s	remaining: 7.02s
777:	learn: 0.4649298	total: 24.5s	remaining: 6.98s
778:	learn: 0.4641068	total: 24.6s	remaining: 6.96s
779:	learn: 0.4610204	total: 24.6s	remaining: 6.93s
780:	learn: 0.4609422	total: 24.6s	remaining: 6.89s
781:	learn: 0.4596771	total: 24.7s	remaining: 6.87s
782:	learn: 0.4581396	total: 24.7s	remaining: 6.83s
783:	learn: 0.4570796	total: 24.7s	remaining: 6.79s
784:	learn: 0.4564352	total: 24.7s	remaining: 6.78s
785:	learn: 0.4528978	total: 24.8s	remaining: 6.74s
786:	learn: 0.4507829	total: 24.8s	remaining: 6.7s
787:	learn: 0.4504503	total: 24.8s	remaining: 6.68s
788:	learn: 0.4483865	total: 24.9s	remaining: 6.65s
789:	learn: 0.4471081	total: 24.9s	remaining: 6.61s
790:	learn: 0.4470555	total: 24.9s	remaining: 6.59s
791:	learn: 0.4455839	total: 24.9s	remaining: 6.55s
792:	learn: 0.4431184	total: 25s	remaining: 6.51s
793:	learn: 0.4416311	total: 25s	remaining: 6.5s
794:	learn: 0.4409088	total: 25s	remaining: 6.46s
795:	learn: 0.4387535	total: 25.1s	remaining: 6.42s
796:	learn: 0.4374252	total: 25.1s	remaining: 6.4s

797:	learn: 0.4350534	total: 25.1s	remaining: 6.37s
798:	learn: 0.4331866	total: 25.1s	remaining: 6.33s
799:	learn: 0.4317665	total: 25.2s	remaining: 6.31s
800:	learn: 0.4313066	total: 25.2s	remaining: 6.27s
801:	learn: 0.4297106	total: 25.2s	remaining: 6.23s
802:	learn: 0.4285591	total: 25.3s	remaining: 6.22s
803:	learn: 0.4252608	total: 25.3s	remaining: 6.18s
804:	learn: 0.4226695	total: 25.3s	remaining: 6.14s
805:	learn: 0.4205237	total: 25.4s	remaining: 6.12s
806:	learn: 0.4179699	total: 25.4s	remaining: 6.09s
807:	learn: 0.4156886	total: 25.5s	remaining: 6.07s
808:	learn: 0.4140354	total: 25.5s	remaining: 6.03s
809:	learn: 0.4117213	total: 25.5s	remaining: 5.99s
810:	learn: 0.4098508	total: 25.6s	remaining: 5.97s
811:	learn: 0.4081996	total: 25.6s	remaining: 5.93s
812:	learn: 0.4063031	total: 25.6s	remaining: 5.9s
813:	learn: 0.4057667	total: 25.7s	remaining: 5.88s
814:	learn: 0.4040409	total: 25.7s	remaining: 5.84s
815:	learn: 0.4019626	total: 25.7s	remaining: 5.8s
816:	learn: 0.4001309	total: 25.7s	remaining: 5.76s
817:	learn: 0.3976363	total: 25.8s	remaining: 5.75s
818:	learn: 0.3963991	total: 25.8s	remaining: 5.71s
819:	learn: 0.3946378	total: 25.8s	remaining: 5.67s
820:	learn: 0.3939326	total: 25.9s	remaining: 5.65s
821:	learn: 0.3927716	total: 25.9s	remaining: 5.62s
822:	learn: 0.3919258	total: 25.9s	remaining: 5.58s
823:	learn: 0.3892771	total: 26s	remaining: 5.56s
824:	learn: 0.3869370	total: 26s	remaining: 5.52s
825:	learn: 0.3861738	total: 26s	remaining: 5.48s
826:	learn: 0.3844939	total: 26.1s	remaining: 5.46s
827:	learn: 0.3841840	total: 26.1s	remaining: 5.43s
828:	learn: 0.3827527	total: 26.1s	remaining: 5.39s
829:	learn: 0.3808899	total: 26.2s	remaining: 5.37s
830:	learn: 0.3792942	total: 26.2s	remaining: 5.33s
831:	learn: 0.3775236	total: 26.2s	remaining: 5.3s
832:	learn: 0.3751950	total: 26.3s	remaining: 5.28s
833:	learn: 0.3737120	total: 26.3s	remaining: 5.24s
834:	learn: 0.3727712	total: 26.3s	remaining: 5.2s
835:	learn: 0.3715637	total: 26.4s	remaining: 5.18s
836:	learn: 0.3691492	total: 26.4s	remaining: 5.14s
837:	learn: 0.3687221	total: 26.4s	remaining: 5.11s
838:	learn: 0.3680401	total: 26.5s	remaining: 5.09s
839:	learn: 0.3662079	total: 26.5s	remaining: 5.05s
840:	learn: 0.3647517	total: 26.5s	remaining: 5.01s
841:	learn: 0.3632505	total: 26.6s	remaining: 4.99s
842:	learn: 0.3617003	total: 26.6s	remaining: 4.96s
843:	learn: 0.3605177	total: 26.6s	remaining: 4.92s
844:	learn: 0.3590325	total: 26.7s	remaining: 4.9s
845:	learn: 0.3572679	total: 26.7s	remaining: 4.86s
846:	learn: 0.3560127	total: 26.7s	remaining: 4.83s
847:	learn: 0.3546598	total: 26.8s	remaining: 4.8s
848:	learn: 0.3530544	total: 26.8s	remaining: 4.77s
849:	learn: 0.3500363	total: 26.8s	remaining: 4.73s
850:	learn: 0.3482373	total: 26.9s	remaining: 4.71s
851:	learn: 0.3472345	total: 26.9s	remaining: 4.67s
852:	learn: 0.3457308	total: 26.9s	remaining: 4.64s
853:	learn: 0.3447413	total: 27s	remaining: 4.62s
854:	learn: 0.3438745	total: 27s	remaining: 4.58s
855:	learn: 0.3431995	total: 27s	remaining: 4.54s
856:	learn: 0.3409853	total: 27.1s	remaining: 4.52s
857:	learn: 0.3389830	total: 27.1s	remaining: 4.49s

858:	learn: 0.3369454	total: 27.1s	remaining: 4.45s
859:	learn: 0.3366524	total: 27.2s	remaining: 4.43s
860:	learn: 0.3353802	total: 27.2s	remaining: 4.39s
861:	learn: 0.3336808	total: 27.2s	remaining: 4.36s
862:	learn: 0.3313375	total: 27.3s	remaining: 4.33s
863:	learn: 0.3300308	total: 27.3s	remaining: 4.3s
864:	learn: 0.3292098	total: 27.3s	remaining: 4.26s
865:	learn: 0.3289987	total: 27.4s	remaining: 4.24s
866:	learn: 0.3277303	total: 27.4s	remaining: 4.2s
867:	learn: 0.3267417	total: 27.4s	remaining: 4.17s
868:	learn: 0.3244796	total: 27.5s	remaining: 4.14s
869:	learn: 0.3238480	total: 27.5s	remaining: 4.11s
870:	learn: 0.3220641	total: 27.5s	remaining: 4.07s
871:	learn: 0.3209560	total: 27.6s	remaining: 4.05s
872:	learn: 0.3200460	total: 27.6s	remaining: 4.01s
873:	learn: 0.3179757	total: 27.6s	remaining: 3.98s
874:	learn: 0.3164221	total: 27.7s	remaining: 3.96s
875:	learn: 0.3147849	total: 27.7s	remaining: 3.92s
876:	learn: 0.3140348	total: 27.7s	remaining: 3.88s
877:	learn: 0.3133442	total: 27.8s	remaining: 3.86s
878:	learn: 0.3124612	total: 27.8s	remaining: 3.83s
879:	learn: 0.3120994	total: 27.8s	remaining: 3.79s
880:	learn: 0.3105657	total: 27.9s	remaining: 3.77s
881:	learn: 0.3092626	total: 27.9s	remaining: 3.73s
882:	learn: 0.3080828	total: 27.9s	remaining: 3.7s
883:	learn: 0.3063894	total: 28s	remaining: 3.67s
884:	learn: 0.3051451	total: 28s	remaining: 3.64s
885:	learn: 0.3044124	total: 28s	remaining: 3.6s
886:	learn: 0.3033892	total: 28.1s	remaining: 3.58s
887:	learn: 0.3011633	total: 28.1s	remaining: 3.54s
888:	learn: 0.2998399	total: 28.1s	remaining: 3.51s
889:	learn: 0.2988484	total: 28.2s	remaining: 3.48s
890:	learn: 0.2977645	total: 28.2s	remaining: 3.45s
891:	learn: 0.2967519	total: 28.2s	remaining: 3.41s
892:	learn: 0.2951299	total: 28.3s	remaining: 3.39s
893:	learn: 0.2940461	total: 28.3s	remaining: 3.35s
894:	learn: 0.2935533	total: 28.3s	remaining: 3.32s
895:	learn: 0.2921592	total: 28.4s	remaining: 3.29s
896:	learn: 0.2911824	total: 28.4s	remaining: 3.26s
897:	learn: 0.2906635	total: 28.4s	remaining: 3.22s
898:	learn: 0.2894268	total: 28.5s	remaining: 3.2s
899:	learn: 0.2891577	total: 28.5s	remaining: 3.16s
900:	learn: 0.2884777	total: 28.5s	remaining: 3.13s
901:	learn: 0.2871896	total: 28.5s	remaining: 3.09s
902:	learn: 0.2860630	total: 28.6s	remaining: 3.07s
903:	learn: 0.2842412	total: 28.6s	remaining: 3.03s
904:	learn: 0.2841419	total: 28.6s	remaining: 3s
905:	learn: 0.2822273	total: 28.7s	remaining: 2.97s
906:	learn: 0.2819310	total: 28.7s	remaining: 2.94s
907:	learn: 0.2813773	total: 28.7s	remaining: 2.91s
908:	learn: 0.2806459	total: 28.8s	remaining: 2.88s
909:	learn: 0.2791455	total: 28.8s	remaining: 2.85s
910:	learn: 0.2778300	total: 28.8s	remaining: 2.81s
911:	learn: 0.2777738	total: 28.9s	remaining: 2.79s
912:	learn: 0.2759678	total: 28.9s	remaining: 2.75s
913:	learn: 0.2751217	total: 28.9s	remaining: 2.72s
914:	learn: 0.2740733	total: 29s	remaining: 2.69s
915:	learn: 0.2734892	total: 29s	remaining: 2.66s
916:	learn: 0.2727894	total: 29s	remaining: 2.62s
917:	learn: 0.2723131	total: 29.1s	remaining: 2.6s
918:	learn: 0.2717595	total: 29.1s	remaining: 2.56s

919:	learn: 0.2694373	total: 29.1s	remaining: 2.53s
920:	learn: 0.2682881	total: 29.2s	remaining: 2.5s
921:	learn: 0.2671455	total: 29.2s	remaining: 2.47s
922:	learn: 0.2659925	total: 29.2s	remaining: 2.43s
923:	learn: 0.2640968	total: 29.3s	remaining: 2.41s
924:	learn: 0.2634080	total: 29.3s	remaining: 2.37s
925:	learn: 0.2627923	total: 29.3s	remaining: 2.34s
926:	learn: 0.2621831	total: 29.4s	remaining: 2.31s
927:	learn: 0.2615600	total: 29.4s	remaining: 2.28s
928:	learn: 0.2611852	total: 29.4s	remaining: 2.24s
929:	learn: 0.2599543	total: 29.5s	remaining: 2.22s
930:	learn: 0.2570098	total: 29.5s	remaining: 2.18s
931:	learn: 0.2552620	total: 29.5s	remaining: 2.15s
932:	learn: 0.2543156	total: 29.6s	remaining: 2.12s
933:	learn: 0.2538374	total: 29.6s	remaining: 2.09s
934:	learn: 0.2532391	total: 29.6s	remaining: 2.05s
935:	learn: 0.2531402	total: 29.6s	remaining: 2.03s
936:	learn: 0.2517427	total: 29.7s	remaining: 1.99s
937:	learn: 0.2514898	total: 29.7s	remaining: 1.96s
938:	learn: 0.2510670	total: 29.7s	remaining: 1.93s
939:	learn: 0.2507248	total: 29.8s	remaining: 1.9s
940:	learn: 0.2493485	total: 29.8s	remaining: 1.86s
941:	learn: 0.2475956	total: 29.8s	remaining: 1.83s
942:	learn: 0.2466563	total: 29.9s	remaining: 1.8s
943:	learn: 0.2455867	total: 29.9s	remaining: 1.77s
944:	learn: 0.2438538	total: 29.9s	remaining: 1.74s
945:	learn: 0.2426041	total: 29.9s	remaining: 1.71s
946:	learn: 0.2420077	total: 29.9s	remaining: 1.68s
947:	learn: 0.2419657	total: 30s	remaining: 1.64s
948:	learn: 0.2403244	total: 30s	remaining: 1.61s
949:	learn: 0.2393239	total: 30s	remaining: 1.58s
950:	learn: 0.2385200	total: 30.1s	remaining: 1.55s
951:	learn: 0.2370182	total: 30.1s	remaining: 1.52s
952:	learn: 0.2354949	total: 30.1s	remaining: 1.49s
953:	learn: 0.2342414	total: 30.2s	remaining: 1.45s
954:	learn: 0.2339349	total: 30.2s	remaining: 1.42s
955:	learn: 0.2330645	total: 30.2s	remaining: 1.39s
956:	learn: 0.2320077	total: 30.2s	remaining: 1.36s
957:	learn: 0.2312578	total: 30.3s	remaining: 1.33s
958:	learn: 0.2304647	total: 30.3s	remaining: 1.3s
959:	learn: 0.2297466	total: 30.3s	remaining: 1.26s
960:	learn: 0.2283513	total: 30.4s	remaining: 1.24s
961:	learn: 0.2279750	total: 30.4s	remaining: 1.2s
962:	learn: 0.2264941	total: 30.4s	remaining: 1.17s
963:	learn: 0.2252536	total: 30.5s	remaining: 1.14s
964:	learn: 0.2240171	total: 30.5s	remaining: 1.11s
965:	learn: 0.2227943	total: 30.5s	remaining: 1.07s
966:	learn: 0.2216493	total: 30.6s	remaining: 1.04s
967:	learn: 0.2215732	total: 30.6s	remaining: 1.01s
968:	learn: 0.2211013	total: 30.6s	remaining: 980ms
969:	learn: 0.2196822	total: 30.7s	remaining: 950ms
970:	learn: 0.2193101	total: 30.7s	remaining: 918ms
971:	learn: 0.2185436	total: 30.7s	remaining: 885ms
972:	learn: 0.2181991	total: 30.8s	remaining: 855ms
973:	learn: 0.2177377	total: 30.8s	remaining: 823ms
974:	learn: 0.2167976	total: 30.8s	remaining: 791ms
975:	learn: 0.2164138	total: 30.9s	remaining: 760ms
976:	learn: 0.2162145	total: 30.9s	remaining: 728ms
977:	learn: 0.2154807	total: 30.9s	remaining: 696ms
978:	learn: 0.2144662	total: 31s	remaining: 665ms
979:	learn: 0.2130824	total: 31s	remaining: 633ms

980:	learn: 0.2126121	total: 31s	remaining: 601ms
981:	learn: 0.2119579	total: 31s	remaining: 569ms
982:	learn: 0.2109941	total: 31.1s	remaining: 538ms
983:	learn: 0.2103964	total: 31.1s	remaining: 506ms
984:	learn: 0.2089047	total: 31.1s	remaining: 474ms
985:	learn: 0.2071326	total: 31.2s	remaining: 443ms
986:	learn: 0.2063167	total: 31.2s	remaining: 411ms
987:	learn: 0.2059889	total: 31.2s	remaining: 379ms
988:	learn: 0.2051071	total: 31.3s	remaining: 348ms
989:	learn: 0.2041617	total: 31.3s	remaining: 316ms
990:	learn: 0.2036060	total: 31.3s	remaining: 285ms
991:	learn: 0.2026570	total: 31.4s	remaining: 253ms
992:	learn: 0.2023893	total: 31.4s	remaining: 221ms
993:	learn: 0.2016084	total: 31.4s	remaining: 190ms
994:	learn: 0.2013568	total: 31.5s	remaining: 158ms
995:	learn: 0.2007050	total: 31.5s	remaining: 127ms
996:	learn: 0.1998816	total: 31.5s	remaining: 94.9ms
997:	learn: 0.1992142	total: 31.6s	remaining: 63.4ms
998:	learn: 0.1978540	total: 31.6s	remaining: 31.6ms
999:	learn: 0.1970317	total: 31.6s	remaining: 0us
0:	learn: 20.2258321	total: 4.42ms	remaining: 4.42s
1:	learn: 19.9943772	total: 8.55ms	remaining: 4.27s
2:	learn: 19.7719041	total: 12.3ms	remaining: 4.09s
3:	learn: 19.5675970	total: 94ms	remaining: 23.4s
4:	learn: 19.3568795	total: 97.9ms	remaining: 19.5s
5:	learn: 18.9299846	total: 102ms	remaining: 16.9s
6:	learn: 18.5661511	total: 190ms	remaining: 26.9s
7:	learn: 18.3354769	total: 194ms	remaining: 24s
8:	learn: 18.1564553	total: 198ms	remaining: 21.8s
9:	learn: 17.7941615	total: 288ms	remaining: 28.5s
10:	learn: 17.6262651	total: 292ms	remaining: 26.3s
11:	learn: 17.4590880	total: 297ms	remaining: 24.4s
12:	learn: 17.2978680	total: 301ms	remaining: 22.8s
13:	learn: 17.1330440	total: 388ms	remaining: 27.4s
14:	learn: 16.9902644	total: 392ms	remaining: 25.8s
15:	learn: 16.8420228	total: 396ms	remaining: 24.4s
16:	learn: 16.7123801	total: 484ms	remaining: 28s
17:	learn: 16.5897609	total: 489ms	remaining: 26.7s
18:	learn: 16.4640734	total: 494ms	remaining: 25.5s
19:	learn: 16.3442957	total: 583ms	remaining: 28.6s
20:	learn: 15.9816523	total: 587ms	remaining: 27.4s
21:	learn: 15.8500986	total: 592ms	remaining: 26.3s
22:	learn: 15.5922012	total: 597ms	remaining: 25.3s
23:	learn: 15.4912368	total: 683ms	remaining: 27.8s
24:	learn: 15.3907898	total: 688ms	remaining: 26.8s
25:	learn: 15.1344435	total: 694ms	remaining: 26s
26:	learn: 15.0096177	total: 781ms	remaining: 28.1s
27:	learn: 14.9297962	total: 785ms	remaining: 27.2s
28:	learn: 14.6916294	total: 788ms	remaining: 26.4s
29:	learn: 14.5297226	total: 877ms	remaining: 28.4s
30:	learn: 14.2774722	total: 881ms	remaining: 27.5s
31:	learn: 14.1844579	total: 885ms	remaining: 26.8s
32:	learn: 14.1163270	total: 975ms	remaining: 28.6s
33:	learn: 14.0383716	total: 980ms	remaining: 27.8s
34:	learn: 13.9485227	total: 984ms	remaining: 27.1s
35:	learn: 13.7171617	total: 1.07s	remaining: 28.7s
36:	learn: 13.6595943	total: 1.08s	remaining: 28.1s
37:	learn: 13.3984383	total: 1.08s	remaining: 27.4s
38:	learn: 13.3372683	total: 1.08s	remaining: 26.8s
39:	learn: 13.2847987	total: 1.17s	remaining: 28.2s
40:	learn: 13.1592641	total: 1.18s	remaining: 27.6s

41:	learn: 13.0249870	total: 1.18s	remaining: 27s
42:	learn: 12.8730350	total: 1.27s	remaining: 28.3s
43:	learn: 12.8090709	total: 1.28s	remaining: 27.7s
44:	learn: 12.7347415	total: 1.28s	remaining: 27.2s
45:	learn: 12.6185651	total: 1.37s	remaining: 28.4s
46:	learn: 12.4297602	total: 1.38s	remaining: 27.9s
47:	learn: 12.3914916	total: 1.38s	remaining: 27.4s
48:	learn: 12.2372873	total: 1.47s	remaining: 28.5s
49:	learn: 12.1786644	total: 1.47s	remaining: 28s
50:	learn: 11.9643930	total: 1.48s	remaining: 27.5s
51:	learn: 11.8666279	total: 1.56s	remaining: 28.5s
52:	learn: 11.8088817	total: 1.57s	remaining: 28s
53:	learn: 11.7544108	total: 1.57s	remaining: 27.5s
54:	learn: 11.6621360	total: 1.57s	remaining: 27.1s
55:	learn: 11.5668873	total: 1.67s	remaining: 28.1s
56:	learn: 11.5323910	total: 1.67s	remaining: 27.6s
57:	learn: 11.4469821	total: 1.67s	remaining: 27.2s
58:	learn: 11.3964245	total: 1.76s	remaining: 28.1s
59:	learn: 11.3274875	total: 1.77s	remaining: 27.7s
60:	learn: 11.2830487	total: 1.77s	remaining: 27.3s
61:	learn: 11.1357434	total: 1.78s	remaining: 26.9s
62:	learn: 11.0279165	total: 1.86s	remaining: 27.7s
63:	learn: 10.9768542	total: 1.87s	remaining: 27.3s
64:	learn: 10.9441625	total: 1.87s	remaining: 26.9s
65:	learn: 10.8234096	total: 1.96s	remaining: 27.7s
66:	learn: 10.7288142	total: 1.96s	remaining: 27.3s
67:	learn: 10.6962792	total: 1.97s	remaining: 27s
68:	learn: 10.6152720	total: 2.06s	remaining: 27.8s
69:	learn: 10.5898753	total: 2.06s	remaining: 27.4s
70:	learn: 10.5579130	total: 2.07s	remaining: 27s
71:	learn: 10.5347617	total: 2.15s	remaining: 27.8s
72:	learn: 10.5167118	total: 2.16s	remaining: 27.4s
73:	learn: 10.4978871	total: 2.16s	remaining: 27.1s
74:	learn: 10.4004427	total: 2.25s	remaining: 27.8s
75:	learn: 10.3824760	total: 2.25s	remaining: 27.4s
76:	learn: 10.2663462	total: 2.26s	remaining: 27.1s
77:	learn: 10.1510068	total: 2.35s	remaining: 27.8s
78:	learn: 10.1025696	total: 2.35s	remaining: 27.4s
79:	learn: 10.0588732	total: 2.36s	remaining: 27.1s
80:	learn: 10.0460831	total: 2.45s	remaining: 27.8s
81:	learn: 9.9440688	total: 2.45s	remaining: 27.5s
82:	learn: 9.8937611	total: 2.46s	remaining: 27.1s
83:	learn: 9.8701386	total: 2.54s	remaining: 27.8s
84:	learn: 9.8552708	total: 2.55s	remaining: 27.4s
85:	learn: 9.8372576	total: 2.55s	remaining: 27.1s
86:	learn: 9.7179629	total: 2.56s	remaining: 26.8s
87:	learn: 9.6928559	total: 2.65s	remaining: 27.4s
88:	learn: 9.6658259	total: 2.65s	remaining: 27.1s
89:	learn: 9.5700093	total: 2.65s	remaining: 26.8s
90:	learn: 9.5584326	total: 2.74s	remaining: 27.4s
91:	learn: 9.5178045	total: 2.75s	remaining: 27.1s
92:	learn: 9.4804504	total: 2.75s	remaining: 26.8s
93:	learn: 9.4699424	total: 2.84s	remaining: 27.4s
94:	learn: 9.3678351	total: 2.84s	remaining: 27.1s
95:	learn: 9.2724299	total: 2.85s	remaining: 26.8s
96:	learn: 9.2210382	total: 2.94s	remaining: 27.3s
97:	learn: 9.2126438	total: 2.94s	remaining: 27.1s
98:	learn: 9.2013713	total: 2.94s	remaining: 26.8s
99:	learn: 9.1835954	total: 3.03s	remaining: 27.3s
100:	learn: 9.1733007	total: 3.04s	remaining: 27s
101:	learn: 9.1669086	total: 3.04s	remaining: 26.8s

102:	learn: 9.0987673	total: 3.13s	remaining: 27.3s
103:	learn: 9.0296964	total: 3.14s	remaining: 27s
104:	learn: 8.9827003	total: 3.14s	remaining: 26.8s
105:	learn: 8.9178928	total: 3.23s	remaining: 27.2s
106:	learn: 8.8553799	total: 3.23s	remaining: 27s
107:	learn: 8.7957569	total: 3.24s	remaining: 26.7s
108:	learn: 8.7491508	total: 3.24s	remaining: 26.5s
109:	learn: 8.7140577	total: 3.33s	remaining: 27s
110:	learn: 8.5995401	total: 3.33s	remaining: 26.7s
111:	learn: 8.5233057	total: 3.34s	remaining: 26.5s
112:	learn: 8.4767449	total: 3.43s	remaining: 26.9s
113:	learn: 8.3885809	total: 3.43s	remaining: 26.7s
114:	learn: 8.3742857	total: 3.44s	remaining: 26.4s
115:	learn: 8.3296199	total: 3.44s	remaining: 26.2s
116:	learn: 8.2544233	total: 3.53s	remaining: 26.6s
117:	learn: 8.1859507	total: 3.53s	remaining: 26.4s
118:	learn: 8.1569299	total: 3.54s	remaining: 26.2s
119:	learn: 8.1060786	total: 3.63s	remaining: 26.6s
120:	learn: 8.0285663	total: 3.63s	remaining: 26.4s
121:	learn: 7.9749158	total: 3.64s	remaining: 26.2s
122:	learn: 7.9621640	total: 3.71s	remaining: 26.4s
123:	learn: 7.8903542	total: 3.71s	remaining: 26.2s
124:	learn: 7.8613258	total: 3.72s	remaining: 26s
125:	learn: 7.8284603	total: 3.72s	remaining: 25.8s
126:	learn: 7.7605644	total: 3.81s	remaining: 26.2s
127:	learn: 7.7287695	total: 3.81s	remaining: 26s
128:	learn: 7.6880008	total: 3.83s	remaining: 25.9s
129:	learn: 7.6418496	total: 3.91s	remaining: 26.2s
130:	learn: 7.5825830	total: 3.91s	remaining: 26s
131:	learn: 7.5274782	total: 3.92s	remaining: 25.8s
132:	learn: 7.5218246	total: 4s	remaining: 26.1s
133:	learn: 7.4602098	total: 4.01s	remaining: 25.9s
134:	learn: 7.4160373	total: 4.01s	remaining: 25.7s
135:	learn: 7.3874071	total: 4.1s	remaining: 26.1s
136:	learn: 7.3287086	total: 4.11s	remaining: 25.9s
137:	learn: 7.2946566	total: 4.11s	remaining: 25.7s
138:	learn: 7.2592228	total: 4.11s	remaining: 25.5s
139:	learn: 7.2351927	total: 4.2s	remaining: 25.8s
140:	learn: 7.1844876	total: 4.21s	remaining: 25.6s
141:	learn: 7.1589307	total: 4.21s	remaining: 25.4s
142:	learn: 7.1254466	total: 4.3s	remaining: 25.8s
143:	learn: 7.0792944	total: 4.3s	remaining: 25.6s
144:	learn: 7.0416491	total: 4.31s	remaining: 25.4s
145:	learn: 7.0013532	total: 4.4s	remaining: 25.7s
146:	learn: 6.9661782	total: 4.4s	remaining: 25.5s
147:	learn: 6.9394021	total: 4.4s	remaining: 25.4s
148:	learn: 6.9171971	total: 4.49s	remaining: 25.7s
149:	learn: 6.8560421	total: 4.5s	remaining: 25.5s
150:	learn: 6.8325611	total: 4.5s	remaining: 25.3s
151:	learn: 6.8110892	total: 4.51s	remaining: 25.1s
152:	learn: 6.7869442	total: 4.59s	remaining: 25.4s
153:	learn: 6.7308456	total: 4.6s	remaining: 25.3s
154:	learn: 6.7127660	total: 4.6s	remaining: 25.1s
155:	learn: 6.6828236	total: 4.69s	remaining: 25.4s
156:	learn: 6.6463084	total: 4.7s	remaining: 25.2s
157:	learn: 6.6208257	total: 4.71s	remaining: 25.1s
158:	learn: 6.5995077	total: 4.79s	remaining: 25.3s
159:	learn: 6.5609712	total: 4.79s	remaining: 25.2s
160:	learn: 6.5333544	total: 4.8s	remaining: 25s
161:	learn: 6.5125230	total: 4.89s	remaining: 25.3s
162:	learn: 6.4812890	total: 4.89s	remaining: 25.1s

163:	learn: 6.4617517	total: 4.9s	remaining: 25s
164:	learn: 6.4051738	total: 4.98s	remaining: 25.2s
165:	learn: 6.3892361	total: 4.99s	remaining: 25.1s
166:	learn: 6.3422797	total: 4.99s	remaining: 24.9s
167:	learn: 6.3209204	total: 5.08s	remaining: 25.2s
168:	learn: 6.3013237	total: 5.09s	remaining: 25s
169:	learn: 6.2399346	total: 5.09s	remaining: 24.9s
170:	learn: 6.2085066	total: 5.18s	remaining: 25.1s
171:	learn: 6.1729624	total: 5.18s	remaining: 24.9s
172:	learn: 6.1566105	total: 5.19s	remaining: 24.8s
173:	learn: 6.1363915	total: 5.28s	remaining: 25s
174:	learn: 6.1324839	total: 5.28s	remaining: 24.9s
175:	learn: 6.0867036	total: 5.28s	remaining: 24.7s
176:	learn: 6.0401589	total: 5.37s	remaining: 25s
177:	learn: 6.0231831	total: 5.38s	remaining: 24.8s
178:	learn: 5.9995614	total: 5.38s	remaining: 24.7s
179:	learn: 5.9707513	total: 5.47s	remaining: 24.9s
180:	learn: 5.9669019	total: 5.48s	remaining: 24.8s
181:	learn: 5.9636498	total: 5.48s	remaining: 24.6s
182:	learn: 5.9151863	total: 5.49s	remaining: 24.5s
183:	learn: 5.8722760	total: 5.58s	remaining: 24.7s
184:	learn: 5.8441263	total: 5.58s	remaining: 24.6s
185:	learn: 5.8335915	total: 5.58s	remaining: 24.4s
186:	learn: 5.7922990	total: 5.67s	remaining: 24.7s
187:	learn: 5.7613946	total: 5.68s	remaining: 24.5s
188:	learn: 5.7287087	total: 5.68s	remaining: 24.4s
189:	learn: 5.6864078	total: 5.77s	remaining: 24.6s
190:	learn: 5.6593245	total: 5.77s	remaining: 24.5s
191:	learn: 5.6187293	total: 5.78s	remaining: 24.3s
192:	learn: 5.5795637	total: 5.87s	remaining: 24.5s
193:	learn: 5.5618388	total: 5.87s	remaining: 24.4s
194:	learn: 5.5432529	total: 5.88s	remaining: 24.3s
195:	learn: 5.4782184	total: 5.97s	remaining: 24.5s
196:	learn: 5.4496270	total: 5.97s	remaining: 24.3s
197:	learn: 5.4290231	total: 5.97s	remaining: 24.2s
198:	learn: 5.4121508	total: 6.06s	remaining: 24.4s
199:	learn: 5.3740875	total: 6.07s	remaining: 24.3s
200:	learn: 5.3555082	total: 6.07s	remaining: 24.1s
201:	learn: 5.3135043	total: 6.16s	remaining: 24.3s
202:	learn: 5.2720917	total: 6.16s	remaining: 24.2s
203:	learn: 5.2186519	total: 6.17s	remaining: 24.1s
204:	learn: 5.2015800	total: 6.26s	remaining: 24.3s
205:	learn: 5.1824622	total: 6.26s	remaining: 24.1s
206:	learn: 5.1586636	total: 6.27s	remaining: 24s
207:	learn: 5.1293760	total: 6.36s	remaining: 24.2s
208:	learn: 5.1105379	total: 6.36s	remaining: 24.1s
209:	learn: 5.0662832	total: 6.37s	remaining: 23.9s
210:	learn: 5.0468506	total: 6.46s	remaining: 24.1s
211:	learn: 5.0184557	total: 6.46s	remaining: 24s
212:	learn: 5.0136944	total: 6.46s	remaining: 23.9s
213:	learn: 4.9985532	total: 6.55s	remaining: 24.1s
214:	learn: 4.9734672	total: 6.56s	remaining: 23.9s
215:	learn: 4.9456715	total: 6.56s	remaining: 23.8s
216:	learn: 4.9161253	total: 6.65s	remaining: 24s
217:	learn: 4.8968960	total: 6.66s	remaining: 23.9s
218:	learn: 4.8863151	total: 6.66s	remaining: 23.8s
219:	learn: 4.8453382	total: 6.66s	remaining: 23.6s
220:	learn: 4.8335951	total: 6.75s	remaining: 23.8s
221:	learn: 4.8171828	total: 6.76s	remaining: 23.7s
222:	learn: 4.7948486	total: 6.76s	remaining: 23.6s
223:	learn: 4.7386863	total: 6.85s	remaining: 23.7s

224:	learn: 4.7211161	total: 6.85s	remaining: 23.6s
225:	learn: 4.6989441	total: 6.86s	remaining: 23.5s
226:	learn: 4.6680968	total: 6.95s	remaining: 23.7s
227:	learn: 4.6542300	total: 6.95s	remaining: 23.5s
228:	learn: 4.6415808	total: 6.96s	remaining: 23.4s
229:	learn: 4.6111144	total: 7.04s	remaining: 23.6s
230:	learn: 4.5884736	total: 7.05s	remaining: 23.5s
231:	learn: 4.5625376	total: 7.05s	remaining: 23.4s
232:	learn: 4.5185377	total: 7.06s	remaining: 23.3s
233:	learn: 4.5081502	total: 7.14s	remaining: 23.4s
234:	learn: 4.5048204	total: 7.15s	remaining: 23.3s
235:	learn: 4.4667170	total: 7.24s	remaining: 23.4s
236:	learn: 4.4515939	total: 7.24s	remaining: 23.3s
237:	learn: 4.4383606	total: 7.25s	remaining: 23.2s
238:	learn: 4.4305417	total: 7.25s	remaining: 23.1s
239:	learn: 4.4076635	total: 7.34s	remaining: 23.2s
240:	learn: 4.3910258	total: 7.34s	remaining: 23.1s
241:	learn: 4.3555379	total: 7.35s	remaining: 23s
242:	learn: 4.3366292	total: 7.44s	remaining: 23.2s
243:	learn: 4.3232314	total: 7.44s	remaining: 23.1s
244:	learn: 4.3000250	total: 7.44s	remaining: 22.9s
245:	learn: 4.2980138	total: 7.53s	remaining: 23.1s
246:	learn: 4.2733298	total: 7.54s	remaining: 23s
247:	learn: 4.2479989	total: 7.54s	remaining: 22.9s
248:	learn: 4.2242599	total: 7.63s	remaining: 23s
249:	learn: 4.2128348	total: 7.63s	remaining: 22.9s
250:	learn: 4.1888387	total: 7.64s	remaining: 22.8s
251:	learn: 4.1581983	total: 7.73s	remaining: 22.9s
252:	learn: 4.1340179	total: 7.73s	remaining: 22.8s
253:	learn: 4.1217794	total: 7.74s	remaining: 22.7s
254:	learn: 4.1203563	total: 7.83s	remaining: 22.9s
255:	learn: 4.0987231	total: 7.83s	remaining: 22.8s
256:	learn: 4.0973114	total: 7.83s	remaining: 22.6s
257:	learn: 4.0642312	total: 7.92s	remaining: 22.8s
258:	learn: 4.0465258	total: 7.93s	remaining: 22.7s
259:	learn: 4.0209231	total: 7.93s	remaining: 22.6s
260:	learn: 4.0128359	total: 7.94s	remaining: 22.5s
261:	learn: 3.9949679	total: 8.02s	remaining: 22.6s
262:	learn: 3.9787420	total: 8.03s	remaining: 22.5s
263:	learn: 3.9607940	total: 8.03s	remaining: 22.4s
264:	learn: 3.9335577	total: 8.12s	remaining: 22.5s
265:	learn: 3.9263426	total: 8.13s	remaining: 22.4s
266:	learn: 3.8925594	total: 8.13s	remaining: 22.3s
267:	learn: 3.8779249	total: 8.22s	remaining: 22.5s
268:	learn: 3.8635693	total: 8.22s	remaining: 22.4s
269:	learn: 3.8500103	total: 8.23s	remaining: 22.2s
270:	learn: 3.8303236	total: 8.32s	remaining: 22.4s
271:	learn: 3.8057973	total: 8.32s	remaining: 22.3s
272:	learn: 3.8036415	total: 8.32s	remaining: 22.2s
273:	learn: 3.7954224	total: 8.41s	remaining: 22.3s
274:	learn: 3.7795330	total: 8.42s	remaining: 22.2s
275:	learn: 3.7778963	total: 8.42s	remaining: 22.1s
276:	learn: 3.7651875	total: 8.43s	remaining: 22s
277:	learn: 3.7458411	total: 8.52s	remaining: 22.1s
278:	learn: 3.7299795	total: 8.52s	remaining: 22s
279:	learn: 3.7166924	total: 8.52s	remaining: 21.9s
280:	learn: 3.7096116	total: 8.61s	remaining: 22s
281:	learn: 3.6853955	total: 8.62s	remaining: 21.9s
282:	learn: 3.6784507	total: 8.62s	remaining: 21.8s
283:	learn: 3.6607604	total: 8.71s	remaining: 22s
284:	learn: 3.6555996	total: 8.72s	remaining: 21.9s

285:	learn: 3.6511634	total: 8.72s	remaining: 21.8s
286:	learn: 3.6391425	total: 8.81s	remaining: 21.9s
287:	learn: 3.6287414	total: 8.81s	remaining: 21.8s
288:	learn: 3.6153981	total: 8.82s	remaining: 21.7s
289:	learn: 3.6036535	total: 8.91s	remaining: 21.8s
290:	learn: 3.5944984	total: 8.91s	remaining: 21.7s
291:	learn: 3.5799787	total: 8.92s	remaining: 21.6s
292:	learn: 3.5679787	total: 9.01s	remaining: 21.7s
293:	learn: 3.5443364	total: 9.01s	remaining: 21.6s
294:	learn: 3.5427257	total: 9.02s	remaining: 21.5s
295:	learn: 3.5269854	total: 9.1s	remaining: 21.6s
296:	learn: 3.5086228	total: 9.11s	remaining: 21.6s
297:	learn: 3.4969519	total: 9.11s	remaining: 21.5s
298:	learn: 3.4869442	total: 9.2s	remaining: 21.6s
299:	learn: 3.4840222	total: 9.21s	remaining: 21.5s
300:	learn: 3.4652205	total: 9.21s	remaining: 21.4s
301:	learn: 3.4485051	total: 9.3s	remaining: 21.5s
302:	learn: 3.4355416	total: 9.3s	remaining: 21.4s
303:	learn: 3.4332953	total: 9.31s	remaining: 21.3s
304:	learn: 3.4092788	total: 9.4s	remaining: 21.4s
305:	learn: 3.3964823	total: 9.4s	remaining: 21.3s
306:	learn: 3.3904111	total: 9.41s	remaining: 21.2s
307:	learn: 3.3797521	total: 9.49s	remaining: 21.3s
308:	learn: 3.3618328	total: 9.5s	remaining: 21.2s
309:	learn: 3.3457838	total: 9.5s	remaining: 21.2s
310:	learn: 3.3240640	total: 9.59s	remaining: 21.3s
311:	learn: 3.3126165	total: 9.6s	remaining: 21.2s
312:	learn: 3.2998570	total: 9.6s	remaining: 21.1s
313:	learn: 3.2955606	total: 9.61s	remaining: 21s
314:	learn: 3.2938333	total: 9.7s	remaining: 21.1s
315:	learn: 3.2802267	total: 9.7s	remaining: 21s
316:	learn: 3.2570756	total: 9.7s	remaining: 20.9s
317:	learn: 3.2284290	total: 9.79s	remaining: 21s
318:	learn: 3.2200921	total: 9.8s	remaining: 20.9s
319:	learn: 3.2062763	total: 9.8s	remaining: 20.8s
320:	learn: 3.1798234	total: 9.89s	remaining: 20.9s
321:	learn: 3.1660761	total: 9.89s	remaining: 20.8s
322:	learn: 3.1477949	total: 9.9s	remaining: 20.8s
323:	learn: 3.1326293	total: 9.98s	remaining: 20.8s
324:	learn: 3.1099925	total: 9.99s	remaining: 20.7s
325:	learn: 3.1090254	total: 9.99s	remaining: 20.7s
326:	learn: 3.0988804	total: 9.99s	remaining: 20.6s
327:	learn: 3.0787366	total: 10.1s	remaining: 20.7s
328:	learn: 3.0706261	total: 10.1s	remaining: 20.6s
329:	learn: 3.0582112	total: 10.1s	remaining: 20.5s
330:	learn: 3.0502644	total: 10.2s	remaining: 20.6s
331:	learn: 3.0381141	total: 10.2s	remaining: 20.5s
332:	learn: 3.0214846	total: 10.2s	remaining: 20.4s
333:	learn: 3.0019621	total: 10.3s	remaining: 20.5s
334:	learn: 2.9989495	total: 10.3s	remaining: 20.4s
335:	learn: 2.9960075	total: 10.3s	remaining: 20.3s
336:	learn: 2.9912851	total: 10.4s	remaining: 20.4s
337:	learn: 2.9735308	total: 10.4s	remaining: 20.3s
338:	learn: 2.9554579	total: 10.4s	remaining: 20.2s
339:	learn: 2.9410349	total: 10.5s	remaining: 20.3s
340:	learn: 2.9246226	total: 10.5s	remaining: 20.2s
341:	learn: 2.9223662	total: 10.5s	remaining: 20.2s
342:	learn: 2.9215880	total: 10.6s	remaining: 20.2s
343:	learn: 2.9073742	total: 10.6s	remaining: 20.2s
344:	learn: 2.9065226	total: 10.6s	remaining: 20.1s
345:	learn: 2.8953553	total: 10.7s	remaining: 20.2s

346:	learn: 2.8701464	total: 10.7s	remaining: 20.1s
347:	learn: 2.8598377	total: 10.7s	remaining: 20s
348:	learn: 2.8269193	total: 10.8s	remaining: 20.1s
349:	learn: 2.8241784	total: 10.8s	remaining: 20s
350:	learn: 2.8146708	total: 10.8s	remaining: 19.9s
351:	learn: 2.8127949	total: 10.9s	remaining: 20s
352:	learn: 2.7990419	total: 10.9s	remaining: 19.9s
353:	learn: 2.7801526	total: 10.9s	remaining: 19.8s
354:	learn: 2.7653150	total: 11s	remaining: 19.9s
355:	learn: 2.7608120	total: 11s	remaining: 19.8s
356:	learn: 2.7479213	total: 11s	remaining: 19.8s
357:	learn: 2.7386987	total: 11.1s	remaining: 19.8s
358:	learn: 2.7138835	total: 11.1s	remaining: 19.8s
359:	learn: 2.6917885	total: 11.1s	remaining: 19.7s
360:	learn: 2.6781749	total: 11.2s	remaining: 19.7s
361:	learn: 2.6654108	total: 11.2s	remaining: 19.7s
362:	learn: 2.6534372	total: 11.2s	remaining: 19.6s
363:	learn: 2.6482559	total: 11.3s	remaining: 19.7s
364:	learn: 2.6294231	total: 11.3s	remaining: 19.6s
365:	learn: 2.6136903	total: 11.3s	remaining: 19.5s
366:	learn: 2.6056427	total: 11.3s	remaining: 19.6s
367:	learn: 2.5905104	total: 11.4s	remaining: 19.5s
368:	learn: 2.5824215	total: 11.4s	remaining: 19.4s
369:	learn: 2.5713979	total: 11.4s	remaining: 19.5s
370:	learn: 2.5586508	total: 11.5s	remaining: 19.4s
371:	learn: 2.5411392	total: 11.5s	remaining: 19.3s
372:	learn: 2.5361197	total: 11.5s	remaining: 19.4s
373:	learn: 2.5290718	total: 11.5s	remaining: 19.3s
374:	learn: 2.5192047	total: 11.6s	remaining: 19.3s
375:	learn: 2.5186040	total: 11.6s	remaining: 19.3s
376:	learn: 2.5098308	total: 11.6s	remaining: 19.2s
377:	learn: 2.5082397	total: 11.7s	remaining: 19.2s
378:	learn: 2.5076285	total: 11.7s	remaining: 19.1s
379:	learn: 2.4939511	total: 11.7s	remaining: 19.2s
380:	learn: 2.4880478	total: 11.7s	remaining: 19.1s
381:	learn: 2.4843283	total: 11.8s	remaining: 19s
382:	learn: 2.4789327	total: 11.8s	remaining: 19.1s
383:	learn: 2.4649509	total: 11.8s	remaining: 19s
384:	learn: 2.4543155	total: 11.8s	remaining: 18.9s
385:	learn: 2.4407312	total: 11.9s	remaining: 19s
386:	learn: 2.4337556	total: 11.9s	remaining: 18.9s
387:	learn: 2.4319105	total: 11.9s	remaining: 18.8s
388:	learn: 2.4300708	total: 12s	remaining: 18.9s
389:	learn: 2.4242671	total: 12s	remaining: 18.8s
390:	learn: 2.4128354	total: 12s	remaining: 18.8s
391:	learn: 2.4012215	total: 12.1s	remaining: 18.8s
392:	learn: 2.3928903	total: 12.1s	remaining: 18.7s
393:	learn: 2.3758160	total: 12.1s	remaining: 18.7s
394:	learn: 2.3744725	total: 12.2s	remaining: 18.7s
395:	learn: 2.3716124	total: 12.2s	remaining: 18.7s
396:	learn: 2.3564408	total: 12.2s	remaining: 18.6s
397:	learn: 2.3547498	total: 12.3s	remaining: 18.6s
398:	learn: 2.3428597	total: 12.3s	remaining: 18.6s
399:	learn: 2.3344586	total: 12.3s	remaining: 18.5s
400:	learn: 2.3181727	total: 12.4s	remaining: 18.6s
401:	learn: 2.3031861	total: 12.4s	remaining: 18.5s
402:	learn: 2.2970949	total: 12.4s	remaining: 18.4s
403:	learn: 2.2860091	total: 12.4s	remaining: 18.4s
404:	learn: 2.2855788	total: 12.5s	remaining: 18.4s
405:	learn: 2.2779941	total: 12.5s	remaining: 18.3s
406:	learn: 2.2701659	total: 12.5s	remaining: 18.3s

407:	learn: 2.2685861	total: 12.6s	remaining: 18.3s
408:	learn: 2.2525236	total: 12.6s	remaining: 18.2s
409:	learn: 2.2430557	total: 12.6s	remaining: 18.2s
410:	learn: 2.2414907	total: 12.7s	remaining: 18.2s
411:	learn: 2.2306192	total: 12.7s	remaining: 18.2s
412:	learn: 2.2295892	total: 12.7s	remaining: 18.1s
413:	learn: 2.2224854	total: 12.8s	remaining: 18.1s
414:	learn: 2.2103362	total: 12.8s	remaining: 18.1s
415:	learn: 2.2026055	total: 12.8s	remaining: 18s
416:	learn: 2.1886435	total: 12.9s	remaining: 18.1s
417:	learn: 2.1842561	total: 12.9s	remaining: 18s
418:	learn: 2.1771470	total: 12.9s	remaining: 17.9s
419:	learn: 2.1592419	total: 13s	remaining: 18s
420:	learn: 2.1496513	total: 13s	remaining: 17.9s
421:	learn: 2.1439813	total: 13.1s	remaining: 18s
422:	learn: 2.1370690	total: 13.1s	remaining: 17.9s
423:	learn: 2.1271775	total: 13.1s	remaining: 17.8s
424:	learn: 2.1230267	total: 13.2s	remaining: 17.9s
425:	learn: 2.1133461	total: 13.2s	remaining: 17.8s
426:	learn: 2.1065178	total: 13.2s	remaining: 17.7s
427:	learn: 2.0982086	total: 13.3s	remaining: 17.8s
428:	learn: 2.0916776	total: 13.3s	remaining: 17.7s
429:	learn: 2.0847660	total: 13.3s	remaining: 17.7s
430:	learn: 2.0781578	total: 13.4s	remaining: 17.7s
431:	learn: 2.0703748	total: 13.4s	remaining: 17.6s
432:	learn: 2.0560267	total: 13.4s	remaining: 17.6s
433:	learn: 2.0546653	total: 13.4s	remaining: 17.5s
434:	learn: 2.0449491	total: 13.5s	remaining: 17.5s
435:	learn: 2.0296088	total: 13.5s	remaining: 17.5s
436:	learn: 2.0268697	total: 13.5s	remaining: 17.4s
437:	learn: 2.0249588	total: 13.6s	remaining: 17.5s
438:	learn: 2.0119505	total: 13.6s	remaining: 17.4s
439:	learn: 2.0087355	total: 13.6s	remaining: 17.3s
440:	learn: 1.9981036	total: 13.7s	remaining: 17.4s
441:	learn: 1.9843664	total: 13.7s	remaining: 17.3s
442:	learn: 1.9747159	total: 13.7s	remaining: 17.2s
443:	learn: 1.9676978	total: 13.8s	remaining: 17.3s
444:	learn: 1.9655974	total: 13.8s	remaining: 17.2s
445:	learn: 1.9558278	total: 13.8s	remaining: 17.2s
446:	learn: 1.9459374	total: 13.9s	remaining: 17.2s
447:	learn: 1.9347981	total: 13.9s	remaining: 17.1s
448:	learn: 1.9315013	total: 13.9s	remaining: 17.1s
449:	learn: 1.9273691	total: 14s	remaining: 17.1s
450:	learn: 1.9127245	total: 14s	remaining: 17s
451:	learn: 1.8984718	total: 14s	remaining: 17s
452:	learn: 1.8868743	total: 14.1s	remaining: 17s
453:	learn: 1.8725668	total: 14.1s	remaining: 17s
454:	learn: 1.8605539	total: 14.1s	remaining: 16.9s
455:	learn: 1.8590916	total: 14.2s	remaining: 16.9s
456:	learn: 1.8533125	total: 14.2s	remaining: 16.9s
457:	learn: 1.8472741	total: 14.2s	remaining: 16.8s
458:	learn: 1.8429363	total: 14.3s	remaining: 16.8s
459:	learn: 1.8373273	total: 14.3s	remaining: 16.8s
460:	learn: 1.8254120	total: 14.3s	remaining: 16.7s
461:	learn: 1.8146936	total: 14.4s	remaining: 16.8s
462:	learn: 1.8137479	total: 14.4s	remaining: 16.7s
463:	learn: 1.8075507	total: 14.4s	remaining: 16.6s
464:	learn: 1.7987215	total: 14.4s	remaining: 16.6s
465:	learn: 1.7966383	total: 14.5s	remaining: 16.6s
466:	learn: 1.7899578	total: 14.5s	remaining: 16.5s
467:	learn: 1.7834742	total: 14.5s	remaining: 16.5s

468:	learn: 1.7831137	total: 14.6s	remaining: 16.5s
469:	learn: 1.7791837	total: 14.6s	remaining: 16.5s
470:	learn: 1.7731437	total: 14.6s	remaining: 16.4s
471:	learn: 1.7694400	total: 14.7s	remaining: 16.4s
472:	learn: 1.7686817	total: 14.7s	remaining: 16.4s
473:	learn: 1.7612963	total: 14.7s	remaining: 16.3s
474:	learn: 1.7552309	total: 14.8s	remaining: 16.3s
475:	learn: 1.7513883	total: 14.8s	remaining: 16.3s
476:	learn: 1.7476776	total: 14.8s	remaining: 16.2s
477:	learn: 1.7468910	total: 14.9s	remaining: 16.2s
478:	learn: 1.7412371	total: 14.9s	remaining: 16.2s
479:	learn: 1.7351986	total: 14.9s	remaining: 16.1s
480:	learn: 1.7311203	total: 15s	remaining: 16.2s
481:	learn: 1.7233149	total: 15s	remaining: 16.1s
482:	learn: 1.7158130	total: 15s	remaining: 16s
483:	learn: 1.7079753	total: 15.1s	remaining: 16.1s
484:	learn: 1.6997425	total: 15.1s	remaining: 16s
485:	learn: 1.6928085	total: 15.1s	remaining: 16s
486:	learn: 1.6861465	total: 15.2s	remaining: 16s
487:	learn: 1.6809526	total: 15.2s	remaining: 15.9s
488:	learn: 1.6751159	total: 15.2s	remaining: 15.9s
489:	learn: 1.6685741	total: 15.3s	remaining: 15.9s
490:	learn: 1.6641082	total: 15.3s	remaining: 15.8s
491:	learn: 1.6525025	total: 15.3s	remaining: 15.8s
492:	learn: 1.6500134	total: 15.3s	remaining: 15.7s
493:	learn: 1.6409381	total: 15.4s	remaining: 15.7s
494:	learn: 1.6379869	total: 15.4s	remaining: 15.7s
495:	learn: 1.6294703	total: 15.4s	remaining: 15.6s
496:	learn: 1.6222181	total: 15.5s	remaining: 15.7s
497:	learn: 1.6200563	total: 15.5s	remaining: 15.6s
498:	learn: 1.6156529	total: 15.5s	remaining: 15.5s
499:	learn: 1.6141280	total: 15.6s	remaining: 15.6s
500:	learn: 1.6128634	total: 15.6s	remaining: 15.5s
501:	learn: 1.6087176	total: 15.6s	remaining: 15.4s
502:	learn: 1.5982036	total: 15.7s	remaining: 15.5s
503:	learn: 1.5965267	total: 15.7s	remaining: 15.4s
504:	learn: 1.5914589	total: 15.7s	remaining: 15.4s
505:	learn: 1.5899748	total: 15.7s	remaining: 15.3s
506:	learn: 1.5841488	total: 15.8s	remaining: 15.3s
507:	learn: 1.5828629	total: 15.8s	remaining: 15.3s
508:	learn: 1.5767632	total: 15.8s	remaining: 15.2s
509:	learn: 1.5720094	total: 15.9s	remaining: 15.2s
510:	learn: 1.5660731	total: 15.9s	remaining: 15.2s
511:	learn: 1.5618075	total: 15.9s	remaining: 15.1s
512:	learn: 1.5530134	total: 16s	remaining: 15.1s
513:	learn: 1.5459796	total: 16s	remaining: 15.1s
514:	learn: 1.5437874	total: 16s	remaining: 15s
515:	learn: 1.5378941	total: 16.1s	remaining: 15.1s
516:	learn: 1.5340867	total: 16.1s	remaining: 15s
517:	learn: 1.5321776	total: 16.1s	remaining: 14.9s
518:	learn: 1.5252503	total: 16.1s	remaining: 15s
519:	learn: 1.5196998	total: 16.2s	remaining: 14.9s
520:	learn: 1.5156605	total: 16.2s	remaining: 14.9s
521:	learn: 1.5114784	total: 16.2s	remaining: 14.9s
522:	learn: 1.5051041	total: 16.3s	remaining: 14.8s
523:	learn: 1.5015255	total: 16.3s	remaining: 14.8s
524:	learn: 1.4937075	total: 16.3s	remaining: 14.8s
525:	learn: 1.4851446	total: 16.3s	remaining: 14.7s
526:	learn: 1.4747598	total: 16.4s	remaining: 14.7s
527:	learn: 1.4743955	total: 16.4s	remaining: 14.7s
528:	learn: 1.4693850	total: 16.4s	remaining: 14.6s

529:	learn: 1.4613064	total: 16.4s	remaining: 14.6s
530:	learn: 1.4533247	total: 16.5s	remaining: 14.5s
531:	learn: 1.4458094	total: 16.5s	remaining: 14.6s
532:	learn: 1.4430007	total: 16.5s	remaining: 14.5s
533:	learn: 1.4362896	total: 16.6s	remaining: 14.4s
534:	learn: 1.4354242	total: 16.6s	remaining: 14.5s
535:	learn: 1.4284845	total: 16.6s	remaining: 14.4s
536:	learn: 1.4251050	total: 16.6s	remaining: 14.4s
537:	learn: 1.4219394	total: 16.7s	remaining: 14.4s
538:	learn: 1.4173749	total: 16.7s	remaining: 14.3s
539:	learn: 1.4118903	total: 16.7s	remaining: 14.3s
540:	learn: 1.4070010	total: 16.7s	remaining: 14.2s
541:	learn: 1.4016344	total: 16.8s	remaining: 14.2s
542:	learn: 1.3997325	total: 16.8s	remaining: 14.2s
543:	learn: 1.3961975	total: 16.8s	remaining: 14.1s
544:	learn: 1.3951573	total: 16.9s	remaining: 14.1s
545:	learn: 1.3925090	total: 16.9s	remaining: 14.1s
546:	learn: 1.3903211	total: 16.9s	remaining: 14s
547:	learn: 1.3887379	total: 16.9s	remaining: 14s
548:	learn: 1.3832156	total: 17s	remaining: 14s
549:	learn: 1.3792723	total: 17s	remaining: 13.9s
550:	learn: 1.3715760	total: 17s	remaining: 13.9s
551:	learn: 1.3653211	total: 17.1s	remaining: 13.9s
552:	learn: 1.3587715	total: 17.1s	remaining: 13.9s
553:	learn: 1.3510068	total: 17.1s	remaining: 13.8s
554:	learn: 1.3486488	total: 17.2s	remaining: 13.8s
555:	learn: 1.3424252	total: 17.2s	remaining: 13.8s
556:	learn: 1.3315857	total: 17.2s	remaining: 13.7s
557:	learn: 1.3241039	total: 17.3s	remaining: 13.7s
558:	learn: 1.3218741	total: 17.3s	remaining: 13.7s
559:	learn: 1.3174351	total: 17.3s	remaining: 13.6s
560:	learn: 1.3120752	total: 17.4s	remaining: 13.6s
561:	learn: 1.3112046	total: 17.4s	remaining: 13.6s
562:	learn: 1.3081076	total: 17.4s	remaining: 13.5s
563:	learn: 1.3061177	total: 17.4s	remaining: 13.5s
564:	learn: 1.2979950	total: 17.5s	remaining: 13.5s
565:	learn: 1.2967330	total: 17.5s	remaining: 13.4s
566:	learn: 1.2873730	total: 17.6s	remaining: 13.5s
567:	learn: 1.2737146	total: 17.6s	remaining: 13.4s
568:	learn: 1.2682494	total: 17.6s	remaining: 13.4s
569:	learn: 1.2623368	total: 17.6s	remaining: 13.3s
570:	learn: 1.2562880	total: 17.7s	remaining: 13.3s
571:	learn: 1.2529811	total: 17.7s	remaining: 13.3s
572:	learn: 1.2466955	total: 17.7s	remaining: 13.2s
573:	learn: 1.2440696	total: 17.8s	remaining: 13.2s
574:	learn: 1.2409841	total: 17.8s	remaining: 13.2s
575:	learn: 1.2387477	total: 17.8s	remaining: 13.1s
576:	learn: 1.2384950	total: 17.9s	remaining: 13.1s
577:	learn: 1.2289578	total: 17.9s	remaining: 13.1s
578:	learn: 1.2232130	total: 17.9s	remaining: 13s
579:	learn: 1.2174420	total: 17.9s	remaining: 13s
580:	learn: 1.2101914	total: 18s	remaining: 13s
581:	learn: 1.2074812	total: 18s	remaining: 12.9s
582:	learn: 1.2014671	total: 18s	remaining: 12.9s
583:	learn: 1.1941629	total: 18.1s	remaining: 12.9s
584:	learn: 1.1912419	total: 18.1s	remaining: 12.9s
585:	learn: 1.1873870	total: 18.1s	remaining: 12.8s
586:	learn: 1.1833517	total: 18.2s	remaining: 12.8s
587:	learn: 1.1791177	total: 18.2s	remaining: 12.8s
588:	learn: 1.1740495	total: 18.3s	remaining: 12.8s
589:	learn: 1.1680838	total: 18.3s	remaining: 12.7s

590:	learn: 1.1656212	total: 18.3s	remaining: 12.7s
591:	learn: 1.1642621	total: 18.3s	remaining: 12.6s
592:	learn: 1.1603529	total: 18.4s	remaining: 12.6s
593:	learn: 1.1567945	total: 18.4s	remaining: 12.6s
594:	learn: 1.1522609	total: 18.4s	remaining: 12.5s
595:	learn: 1.1449527	total: 18.5s	remaining: 12.5s
596:	learn: 1.1411724	total: 18.5s	remaining: 12.5s
597:	learn: 1.1382516	total: 18.5s	remaining: 12.4s
598:	learn: 1.1357714	total: 18.6s	remaining: 12.5s
599:	learn: 1.1324566	total: 18.6s	remaining: 12.4s
600:	learn: 1.1293232	total: 18.6s	remaining: 12.4s
601:	learn: 1.1228888	total: 18.7s	remaining: 12.4s
602:	learn: 1.1186303	total: 18.7s	remaining: 12.3s
603:	learn: 1.1177313	total: 18.7s	remaining: 12.3s
604:	learn: 1.1123559	total: 18.8s	remaining: 12.3s
605:	learn: 1.1083003	total: 18.8s	remaining: 12.2s
606:	learn: 1.1034742	total: 18.8s	remaining: 12.2s
607:	learn: 1.0983178	total: 18.8s	remaining: 12.1s
608:	learn: 1.0949078	total: 18.9s	remaining: 12.1s
609:	learn: 1.0926113	total: 18.9s	remaining: 12.1s
610:	learn: 1.0905816	total: 18.9s	remaining: 12s
611:	learn: 1.0897281	total: 19s	remaining: 12s
612:	learn: 1.0886080	total: 19s	remaining: 12s
613:	learn: 1.0856898	total: 19s	remaining: 11.9s
614:	learn: 1.0822793	total: 19.1s	remaining: 12s
615:	learn: 1.0793966	total: 19.1s	remaining: 11.9s
616:	learn: 1.0777401	total: 19.1s	remaining: 11.9s
617:	learn: 1.0753368	total: 19.1s	remaining: 11.8s
618:	learn: 1.0722442	total: 19.2s	remaining: 11.8s
619:	learn: 1.0673635	total: 19.2s	remaining: 11.8s
620:	learn: 1.0642028	total: 19.2s	remaining: 11.7s
621:	learn: 1.0616204	total: 19.3s	remaining: 11.7s
622:	learn: 1.0519650	total: 19.3s	remaining: 11.7s
623:	learn: 1.0496188	total: 19.3s	remaining: 11.6s
624:	learn: 1.0480740	total: 19.4s	remaining: 11.6s
625:	learn: 1.0428914	total: 19.4s	remaining: 11.6s
626:	learn: 1.0386603	total: 19.4s	remaining: 11.5s
627:	learn: 1.0371402	total: 19.5s	remaining: 11.5s
628:	learn: 1.0366236	total: 19.5s	remaining: 11.5s
629:	learn: 1.0309947	total: 19.5s	remaining: 11.4s
630:	learn: 1.0271294	total: 19.5s	remaining: 11.4s
631:	learn: 1.0218239	total: 19.6s	remaining: 11.4s
632:	learn: 1.0193341	total: 19.6s	remaining: 11.4s
633:	learn: 1.0134455	total: 19.6s	remaining: 11.3s
634:	learn: 1.0095498	total: 19.7s	remaining: 11.3s
635:	learn: 1.0045838	total: 19.7s	remaining: 11.3s
636:	learn: 0.9960850	total: 19.7s	remaining: 11.2s
637:	learn: 0.9934379	total: 19.8s	remaining: 11.2s
638:	learn: 0.9899137	total: 19.8s	remaining: 11.2s
639:	learn: 0.9838752	total: 19.8s	remaining: 11.1s
640:	learn: 0.9818058	total: 19.9s	remaining: 11.1s
641:	learn: 0.9766783	total: 19.9s	remaining: 11.1s
642:	learn: 0.9745739	total: 19.9s	remaining: 11s
643:	learn: 0.9710708	total: 19.9s	remaining: 11s
644:	learn: 0.9699222	total: 20s	remaining: 11s
645:	learn: 0.9624738	total: 20s	remaining: 10.9s
646:	learn: 0.9596407	total: 20s	remaining: 10.9s
647:	learn: 0.9569891	total: 20.1s	remaining: 10.9s
648:	learn: 0.9566382	total: 20.1s	remaining: 10.9s
649:	learn: 0.9517626	total: 20.1s	remaining: 10.8s
650:	learn: 0.9482369	total: 20.2s	remaining: 10.8s

651:	learn: 0.9453593	total: 20.2s	remaining: 10.8s
652:	learn: 0.9437314	total: 20.2s	remaining: 10.7s
653:	learn: 0.9405028	total: 20.2s	remaining: 10.7s
654:	learn: 0.9353677	total: 20.3s	remaining: 10.7s
655:	learn: 0.9306765	total: 20.3s	remaining: 10.6s
656:	learn: 0.9298151	total: 20.3s	remaining: 10.6s
657:	learn: 0.9256835	total: 20.4s	remaining: 10.6s
658:	learn: 0.9251812	total: 20.4s	remaining: 10.5s
659:	learn: 0.9239326	total: 20.4s	remaining: 10.5s
660:	learn: 0.9216662	total: 20.5s	remaining: 10.5s
661:	learn: 0.9176220	total: 20.5s	remaining: 10.5s
662:	learn: 0.9126243	total: 20.5s	remaining: 10.4s
663:	learn: 0.9087257	total: 20.6s	remaining: 10.4s
664:	learn: 0.9041362	total: 20.6s	remaining: 10.4s
665:	learn: 0.9020111	total: 20.6s	remaining: 10.3s
666:	learn: 0.8987603	total: 20.7s	remaining: 10.3s
667:	learn: 0.8948531	total: 20.7s	remaining: 10.3s
668:	learn: 0.8892089	total: 20.7s	remaining: 10.2s
669:	learn: 0.8859368	total: 20.7s	remaining: 10.2s
670:	learn: 0.8807705	total: 20.8s	remaining: 10.2s
671:	learn: 0.8776342	total: 20.8s	remaining: 10.1s
672:	learn: 0.8774482	total: 20.8s	remaining: 10.1s
673:	learn: 0.8769127	total: 20.9s	remaining: 10.1s
674:	learn: 0.8764531	total: 20.9s	remaining: 10s
675:	learn: 0.8724330	total: 20.9s	remaining: 10s
676:	learn: 0.8693636	total: 21s	remaining: 10s
677:	learn: 0.8687771	total: 21s	remaining: 9.95s
678:	learn: 0.8662334	total: 21s	remaining: 9.91s
679:	learn: 0.8633330	total: 21.1s	remaining: 9.91s
680:	learn: 0.8623208	total: 21.1s	remaining: 9.86s
681:	learn: 0.8582650	total: 21.1s	remaining: 9.82s
682:	learn: 0.8548222	total: 21.2s	remaining: 9.82s
683:	learn: 0.8527447	total: 21.2s	remaining: 9.77s
684:	learn: 0.8519648	total: 21.2s	remaining: 9.73s
685:	learn: 0.8471336	total: 21.2s	remaining: 9.69s
686:	learn: 0.8417739	total: 21.3s	remaining: 9.68s
687:	learn: 0.8383554	total: 21.3s	remaining: 9.64s
688:	learn: 0.8366025	total: 21.3s	remaining: 9.6s
689:	learn: 0.8337891	total: 21.3s	remaining: 9.59s
690:	learn: 0.8319823	total: 21.4s	remaining: 9.55s
691:	learn: 0.8287859	total: 21.4s	remaining: 9.51s
692:	learn: 0.8270594	total: 21.4s	remaining: 9.5s
693:	learn: 0.8228610	total: 21.4s	remaining: 9.46s
694:	learn: 0.8187314	total: 21.5s	remaining: 9.41s
695:	learn: 0.8155074	total: 21.5s	remaining: 9.41s
696:	learn: 0.8123388	total: 21.5s	remaining: 9.37s
697:	learn: 0.8063992	total: 21.6s	remaining: 9.32s
698:	learn: 0.8038815	total: 21.6s	remaining: 9.28s
699:	learn: 0.7985680	total: 21.6s	remaining: 9.28s
700:	learn: 0.7952580	total: 21.6s	remaining: 9.23s
701:	learn: 0.7933206	total: 21.6s	remaining: 9.19s
702:	learn: 0.7898552	total: 21.7s	remaining: 9.19s
703:	learn: 0.7875866	total: 21.7s	remaining: 9.14s
704:	learn: 0.7864618	total: 21.7s	remaining: 9.1s
705:	learn: 0.7823253	total: 21.8s	remaining: 9.09s
706:	learn: 0.7799349	total: 21.8s	remaining: 9.05s
707:	learn: 0.7747011	total: 21.8s	remaining: 9.01s
708:	learn: 0.7733074	total: 21.9s	remaining: 9s
709:	learn: 0.7725252	total: 21.9s	remaining: 8.96s
710:	learn: 0.7681997	total: 21.9s	remaining: 8.92s
711:	learn: 0.7637386	total: 22s	remaining: 8.91s

712:	learn: 0.7610029	total: 22s	remaining: 8.87s
713:	learn: 0.7559484	total: 22s	remaining: 8.83s
714:	learn: 0.7551144	total: 22.1s	remaining: 8.82s
715:	learn: 0.7525520	total: 22.1s	remaining: 8.78s
716:	learn: 0.7514412	total: 22.1s	remaining: 8.74s
717:	learn: 0.7509283	total: 22.1s	remaining: 8.7s
718:	learn: 0.7481151	total: 22.2s	remaining: 8.69s
719:	learn: 0.7455029	total: 22.2s	remaining: 8.65s
720:	learn: 0.7429150	total: 22.2s	remaining: 8.61s
721:	learn: 0.7401924	total: 22.3s	remaining: 8.6s
722:	learn: 0.7390820	total: 22.3s	remaining: 8.56s
723:	learn: 0.7362431	total: 22.3s	remaining: 8.52s
724:	learn: 0.7331192	total: 22.4s	remaining: 8.51s
725:	learn: 0.7312402	total: 22.4s	remaining: 8.47s
726:	learn: 0.7286408	total: 22.4s	remaining: 8.43s
727:	learn: 0.7254814	total: 22.5s	remaining: 8.42s
728:	learn: 0.7228328	total: 22.5s	remaining: 8.38s
729:	learn: 0.7188843	total: 22.5s	remaining: 8.33s
730:	learn: 0.7157293	total: 22.6s	remaining: 8.32s
731:	learn: 0.7145672	total: 22.6s	remaining: 8.28s
732:	learn: 0.7090581	total: 22.6s	remaining: 8.24s
733:	learn: 0.7082523	total: 22.7s	remaining: 8.23s
734:	learn: 0.7078642	total: 22.7s	remaining: 8.19s
735:	learn: 0.7049153	total: 22.7s	remaining: 8.15s
736:	learn: 0.7018110	total: 22.8s	remaining: 8.14s
737:	learn: 0.7006350	total: 22.8s	remaining: 8.1s
738:	learn: 0.6991360	total: 22.8s	remaining: 8.06s
739:	learn: 0.6960750	total: 22.9s	remaining: 8.05s
740:	learn: 0.6932287	total: 22.9s	remaining: 8.01s
741:	learn: 0.6922808	total: 22.9s	remaining: 7.97s
742:	learn: 0.6901750	total: 23s	remaining: 7.96s
743:	learn: 0.6877387	total: 23s	remaining: 7.92s
744:	learn: 0.6856896	total: 23s	remaining: 7.88s
745:	learn: 0.6834856	total: 23s	remaining: 7.84s
746:	learn: 0.6797002	total: 23.1s	remaining: 7.83s
747:	learn: 0.6764244	total: 23.1s	remaining: 7.79s
748:	learn: 0.6745660	total: 23.1s	remaining: 7.75s
749:	learn: 0.6701842	total: 23.2s	remaining: 7.74s
750:	learn: 0.6681661	total: 23.2s	remaining: 7.7s
751:	learn: 0.6658434	total: 23.2s	remaining: 7.66s
752:	learn: 0.6625608	total: 23.3s	remaining: 7.64s
753:	learn: 0.6613044	total: 23.3s	remaining: 7.61s
754:	learn: 0.6590645	total: 23.3s	remaining: 7.57s
755:	learn: 0.6572720	total: 23.4s	remaining: 7.55s
756:	learn: 0.6533461	total: 23.4s	remaining: 7.51s
757:	learn: 0.6498483	total: 23.4s	remaining: 7.47s
758:	learn: 0.6485880	total: 23.4s	remaining: 7.43s
759:	learn: 0.6454666	total: 23.5s	remaining: 7.42s
760:	learn: 0.6429738	total: 23.5s	remaining: 7.38s
761:	learn: 0.6396517	total: 23.5s	remaining: 7.34s
762:	learn: 0.6374904	total: 23.6s	remaining: 7.33s
763:	learn: 0.6358997	total: 23.6s	remaining: 7.29s
764:	learn: 0.6318946	total: 23.6s	remaining: 7.25s
765:	learn: 0.6305101	total: 23.7s	remaining: 7.24s
766:	learn: 0.6297419	total: 23.7s	remaining: 7.2s
767:	learn: 0.6270787	total: 23.7s	remaining: 7.16s
768:	learn: 0.6234947	total: 23.8s	remaining: 7.15s
769:	learn: 0.6216157	total: 23.8s	remaining: 7.11s
770:	learn: 0.6190717	total: 23.8s	remaining: 7.07s
771:	learn: 0.6172774	total: 23.9s	remaining: 7.06s
772:	learn: 0.6141955	total: 23.9s	remaining: 7.02s

773:	learn: 0.6102021	total: 23.9s	remaining: 6.98s
774:	learn: 0.6084217	total: 24s	remaining: 6.97s
775:	learn: 0.6061695	total: 24s	remaining: 6.93s
776:	learn: 0.6039782	total: 24s	remaining: 6.89s
777:	learn: 0.6025718	total: 24s	remaining: 6.85s
778:	learn: 0.6012268	total: 24.1s	remaining: 6.83s
779:	learn: 0.6000479	total: 24.1s	remaining: 6.8s
780:	learn: 0.5971284	total: 24.1s	remaining: 6.76s
781:	learn: 0.5942934	total: 24.2s	remaining: 6.74s
782:	learn: 0.5916840	total: 24.2s	remaining: 6.71s
783:	learn: 0.5890138	total: 24.2s	remaining: 6.67s
784:	learn: 0.5870799	total: 24.3s	remaining: 6.65s
785:	learn: 0.5837307	total: 24.3s	remaining: 6.62s
786:	learn: 0.5827031	total: 24.3s	remaining: 6.58s
787:	learn: 0.5823692	total: 24.3s	remaining: 6.54s
788:	learn: 0.5789554	total: 24.4s	remaining: 6.52s
789:	learn: 0.5748857	total: 24.4s	remaining: 6.48s
790:	learn: 0.5734118	total: 24.4s	remaining: 6.45s
791:	learn: 0.5718805	total: 24.5s	remaining: 6.43s
792:	learn: 0.5698510	total: 24.5s	remaining: 6.39s
793:	learn: 0.5691338	total: 24.5s	remaining: 6.36s
794:	learn: 0.5666906	total: 24.6s	remaining: 6.34s
795:	learn: 0.5648455	total: 24.6s	remaining: 6.3s
796:	learn: 0.5607392	total: 24.6s	remaining: 6.26s
797:	learn: 0.5597776	total: 24.7s	remaining: 6.25s
798:	learn: 0.5568399	total: 24.7s	remaining: 6.21s
799:	learn: 0.5554718	total: 24.7s	remaining: 6.17s
800:	learn: 0.5544482	total: 24.7s	remaining: 6.13s
801:	learn: 0.5520833	total: 24.8s	remaining: 6.12s
802:	learn: 0.5501595	total: 24.8s	remaining: 6.08s
803:	learn: 0.5485989	total: 24.8s	remaining: 6.04s
804:	learn: 0.5457447	total: 24.9s	remaining: 6.03s
805:	learn: 0.5428066	total: 24.9s	remaining: 5.99s
806:	learn: 0.5415584	total: 24.9s	remaining: 5.95s
807:	learn: 0.5410686	total: 25s	remaining: 5.93s
808:	learn: 0.5394182	total: 25s	remaining: 5.9s
809:	learn: 0.5380367	total: 25s	remaining: 5.86s
810:	learn: 0.5348347	total: 25s	remaining: 5.82s
811:	learn: 0.5327689	total: 25.1s	remaining: 5.81s
812:	learn: 0.5309739	total: 25.1s	remaining: 5.77s
813:	learn: 0.5290802	total: 25.1s	remaining: 5.73s
814:	learn: 0.5254211	total: 25.2s	remaining: 5.71s
815:	learn: 0.5236546	total: 25.2s	remaining: 5.68s
816:	learn: 0.5228190	total: 25.2s	remaining: 5.64s
817:	learn: 0.5201983	total: 25.3s	remaining: 5.62s
818:	learn: 0.5185139	total: 25.3s	remaining: 5.59s
819:	learn: 0.5175245	total: 25.3s	remaining: 5.55s
820:	learn: 0.5167174	total: 25.4s	remaining: 5.53s
821:	learn: 0.5126116	total: 25.4s	remaining: 5.5s
822:	learn: 0.5118932	total: 25.4s	remaining: 5.46s
823:	learn: 0.5096655	total: 25.5s	remaining: 5.44s
824:	learn: 0.5078432	total: 25.5s	remaining: 5.4s
825:	learn: 0.5065159	total: 25.5s	remaining: 5.37s
826:	learn: 0.5034892	total: 25.6s	remaining: 5.35s
827:	learn: 0.5008096	total: 25.6s	remaining: 5.31s
828:	learn: 0.5003971	total: 25.6s	remaining: 5.28s
829:	learn: 0.4979852	total: 25.7s	remaining: 5.26s
830:	learn: 0.4965076	total: 25.7s	remaining: 5.22s
831:	learn: 0.4960015	total: 25.7s	remaining: 5.18s
832:	learn: 0.4955005	total: 25.7s	remaining: 5.15s
833:	learn: 0.4947573	total: 25.8s	remaining: 5.13s

834:	learn: 0.4943221	total: 25.8s	remaining: 5.09s
835:	learn: 0.4926328	total: 25.8s	remaining: 5.06s
836:	learn: 0.4917942	total: 25.9s	remaining: 5.04s
837:	learn: 0.4902086	total: 25.9s	remaining: 5s
838:	learn: 0.4871422	total: 25.9s	remaining: 4.96s
839:	learn: 0.4866425	total: 26s	remaining: 4.94s
840:	learn: 0.4850915	total: 26s	remaining: 4.91s
841:	learn: 0.4837217	total: 26s	remaining: 4.87s
842:	learn: 0.4818884	total: 26.1s	remaining: 4.85s
843:	learn: 0.4815298	total: 26.1s	remaining: 4.82s
844:	learn: 0.4795648	total: 26.1s	remaining: 4.78s
845:	learn: 0.4770649	total: 26.2s	remaining: 4.76s
846:	learn: 0.4765303	total: 26.2s	remaining: 4.72s
847:	learn: 0.4754029	total: 26.2s	remaining: 4.69s
848:	learn: 0.4742683	total: 26.3s	remaining: 4.67s
849:	learn: 0.4716146	total: 26.3s	remaining: 4.63s
850:	learn: 0.4704311	total: 26.3s	remaining: 4.6s
851:	learn: 0.4686064	total: 26.4s	remaining: 4.58s
852:	learn: 0.4661975	total: 26.4s	remaining: 4.54s
853:	learn: 0.4636540	total: 26.4s	remaining: 4.51s
854:	learn: 0.4622840	total: 26.4s	remaining: 4.47s
855:	learn: 0.4609082	total: 26.5s	remaining: 4.45s
856:	learn: 0.4600238	total: 26.5s	remaining: 4.41s
857:	learn: 0.4595431	total: 26.5s	remaining: 4.38s
858:	learn: 0.4592156	total: 26.6s	remaining: 4.36s
859:	learn: 0.4572725	total: 26.6s	remaining: 4.32s
860:	learn: 0.4561476	total: 26.6s	remaining: 4.29s
861:	learn: 0.4552575	total: 26.6s	remaining: 4.27s
862:	learn: 0.4546509	total: 26.7s	remaining: 4.23s
863:	learn: 0.4541092	total: 26.7s	remaining: 4.2s
864:	learn: 0.4526692	total: 26.7s	remaining: 4.17s
865:	learn: 0.4516418	total: 26.8s	remaining: 4.14s
866:	learn: 0.4491520	total: 26.8s	remaining: 4.1s
867:	learn: 0.4480316	total: 26.8s	remaining: 4.08s
868:	learn: 0.4477227	total: 26.8s	remaining: 4.05s
869:	learn: 0.4453253	total: 26.9s	remaining: 4.01s
870:	learn: 0.4434173	total: 26.9s	remaining: 3.99s
871:	learn: 0.4413049	total: 26.9s	remaining: 3.96s
872:	learn: 0.4404245	total: 26.9s	remaining: 3.92s
873:	learn: 0.4392396	total: 27s	remaining: 3.9s
874:	learn: 0.4382288	total: 27s	remaining: 3.86s
875:	learn: 0.4367491	total: 27.1s	remaining: 3.83s
876:	learn: 0.4336942	total: 27.1s	remaining: 3.81s
877:	learn: 0.4307599	total: 27.1s	remaining: 3.77s
878:	learn: 0.4294610	total: 27.1s	remaining: 3.74s
879:	learn: 0.4268933	total: 27.1s	remaining: 3.7s
880:	learn: 0.4253987	total: 27.2s	remaining: 3.68s
881:	learn: 0.4232487	total: 27.2s	remaining: 3.64s
882:	learn: 0.4217116	total: 27.2s	remaining: 3.61s
883:	learn: 0.4193354	total: 27.3s	remaining: 3.59s
884:	learn: 0.4184161	total: 27.3s	remaining: 3.55s
885:	learn: 0.4170872	total: 27.3s	remaining: 3.52s
886:	learn: 0.4166208	total: 27.4s	remaining: 3.5s
887:	learn: 0.4140001	total: 27.4s	remaining: 3.46s
888:	learn: 0.4138624	total: 27.4s	remaining: 3.43s
889:	learn: 0.4124131	total: 27.5s	remaining: 3.4s
890:	learn: 0.4119295	total: 27.5s	remaining: 3.37s
891:	learn: 0.4116986	total: 27.5s	remaining: 3.33s
892:	learn: 0.4107970	total: 27.6s	remaining: 3.31s
893:	learn: 0.4084400	total: 27.6s	remaining: 3.28s
894:	learn: 0.4064507	total: 27.6s	remaining: 3.24s

895:	learn: 0.4056293	total: 27.6s	remaining: 3.21s
896:	learn: 0.4039600	total: 27.7s	remaining: 3.18s
897:	learn: 0.4030990	total: 27.7s	remaining: 3.15s
898:	learn: 0.4020169	total: 27.8s	remaining: 3.13s
899:	learn: 0.4012682	total: 27.8s	remaining: 3.09s
900:	learn: 0.4002251	total: 27.8s	remaining: 3.06s
901:	learn: 0.3991543	total: 27.9s	remaining: 3.03s
902:	learn: 0.3976579	total: 27.9s	remaining: 3s
903:	learn: 0.3961487	total: 27.9s	remaining: 2.97s
904:	learn: 0.3954468	total: 28s	remaining: 2.94s
905:	learn: 0.3924128	total: 28s	remaining: 2.91s
906:	learn: 0.3892232	total: 28s	remaining: 2.87s
907:	learn: 0.3877690	total: 28.1s	remaining: 2.85s
908:	learn: 0.3866033	total: 28.1s	remaining: 2.81s
909:	learn: 0.3846954	total: 28.1s	remaining: 2.78s
910:	learn: 0.3836465	total: 28.1s	remaining: 2.75s
911:	learn: 0.3826404	total: 28.2s	remaining: 2.72s
912:	learn: 0.3807896	total: 28.2s	remaining: 2.69s
913:	learn: 0.3802808	total: 28.2s	remaining: 2.66s
914:	learn: 0.3782146	total: 28.3s	remaining: 2.63s
915:	learn: 0.3770727	total: 28.3s	remaining: 2.6s
916:	learn: 0.3742004	total: 28.3s	remaining: 2.56s
917:	learn: 0.3729152	total: 28.4s	remaining: 2.54s
918:	learn: 0.3716506	total: 28.4s	remaining: 2.5s
919:	learn: 0.3709386	total: 28.4s	remaining: 2.47s
920:	learn: 0.3699115	total: 28.5s	remaining: 2.44s
921:	learn: 0.3691679	total: 28.5s	remaining: 2.41s
922:	learn: 0.3682478	total: 28.5s	remaining: 2.38s
923:	learn: 0.3664809	total: 28.6s	remaining: 2.35s
924:	learn: 0.3658651	total: 28.6s	remaining: 2.32s
925:	learn: 0.3635695	total: 28.6s	remaining: 2.29s
926:	learn: 0.3631079	total: 28.7s	remaining: 2.26s
927:	learn: 0.3623525	total: 28.7s	remaining: 2.23s
928:	learn: 0.3609175	total: 28.7s	remaining: 2.19s
929:	learn: 0.3595980	total: 28.8s	remaining: 2.17s
930:	learn: 0.3583400	total: 28.8s	remaining: 2.13s
931:	learn: 0.3563082	total: 28.8s	remaining: 2.1s
932:	learn: 0.3557158	total: 28.9s	remaining: 2.08s
933:	learn: 0.3547230	total: 28.9s	remaining: 2.04s
934:	learn: 0.3532286	total: 28.9s	remaining: 2.01s
935:	learn: 0.3525367	total: 28.9s	remaining: 1.98s
936:	learn: 0.3517211	total: 29s	remaining: 1.95s
937:	learn: 0.3508069	total: 29s	remaining: 1.92s
938:	learn: 0.3495114	total: 29s	remaining: 1.88s
939:	learn: 0.3480895	total: 29.1s	remaining: 1.86s
940:	learn: 0.3476097	total: 29.1s	remaining: 1.82s
941:	learn: 0.3469424	total: 29.1s	remaining: 1.79s
942:	learn: 0.3466358	total: 29.2s	remaining: 1.76s
943:	learn: 0.3452580	total: 29.2s	remaining: 1.73s
944:	learn: 0.3438520	total: 29.2s	remaining: 1.7s
945:	learn: 0.3432283	total: 29.3s	remaining: 1.67s
946:	learn: 0.3418072	total: 29.3s	remaining: 1.64s
947:	learn: 0.3414487	total: 29.3s	remaining: 1.61s
948:	learn: 0.3394649	total: 29.3s	remaining: 1.57s
949:	learn: 0.3389737	total: 29.4s	remaining: 1.55s
950:	learn: 0.3384951	total: 29.4s	remaining: 1.51s
951:	learn: 0.3377028	total: 29.4s	remaining: 1.48s
952:	learn: 0.3367382	total: 29.5s	remaining: 1.45s
953:	learn: 0.3354461	total: 29.5s	remaining: 1.42s
954:	learn: 0.3338474	total: 29.5s	remaining: 1.39s
955:	learn: 0.3330853	total: 29.6s	remaining: 1.36s

956:	learn: 0.3323514	total: 29.6s	remaining: 1.33s
957:	learn: 0.3306284	total: 29.6s	remaining: 1.3s
958:	learn: 0.3296701	total: 29.7s	remaining: 1.27s
959:	learn: 0.3284783	total: 29.7s	remaining: 1.24s
960:	learn: 0.3281916	total: 29.7s	remaining: 1.21s
961:	learn: 0.3266044	total: 29.7s	remaining: 1.17s
962:	learn: 0.3262202	total: 29.8s	remaining: 1.14s
963:	learn: 0.3257894	total: 29.8s	remaining: 1.11s
964:	learn: 0.3237052	total: 29.8s	remaining: 1.08s
965:	learn: 0.3217829	total: 29.9s	remaining: 1.05s
966:	learn: 0.3203449	total: 29.9s	remaining: 1.02s
967:	learn: 0.3194403	total: 29.9s	remaining: 988ms
968:	learn: 0.3181982	total: 30s	remaining: 959ms
969:	learn: 0.3167472	total: 30s	remaining: 927ms
970:	learn: 0.3148623	total: 30s	remaining: 896ms
971:	learn: 0.3124241	total: 30.1s	remaining: 866ms
972:	learn: 0.3120947	total: 30.1s	remaining: 835ms
973:	learn: 0.3107956	total: 30.1s	remaining: 803ms
974:	learn: 0.3096581	total: 30.2s	remaining: 774ms
975:	learn: 0.3087803	total: 30.2s	remaining: 742ms
976:	learn: 0.3081516	total: 30.2s	remaining: 711ms
977:	learn: 0.3066997	total: 30.3s	remaining: 681ms
978:	learn: 0.3059940	total: 30.3s	remaining: 649ms
979:	learn: 0.3052044	total: 30.3s	remaining: 618ms
980:	learn: 0.3037017	total: 30.4s	remaining: 588ms
981:	learn: 0.3020956	total: 30.4s	remaining: 557ms
982:	learn: 0.3012421	total: 30.4s	remaining: 525ms
983:	learn: 0.3006952	total: 30.5s	remaining: 495ms
984:	learn: 0.2995496	total: 30.5s	remaining: 464ms
985:	learn: 0.2977188	total: 30.5s	remaining: 433ms
986:	learn: 0.2970538	total: 30.5s	remaining: 401ms
987:	learn: 0.2964003	total: 30.6s	remaining: 371ms
988:	learn: 0.2951033	total: 30.6s	remaining: 340ms
989:	learn: 0.2942515	total: 30.6s	remaining: 309ms
990:	learn: 0.2938183	total: 30.7s	remaining: 278ms
991:	learn: 0.2937895	total: 30.7s	remaining: 247ms
992:	learn: 0.2931778	total: 30.7s	remaining: 216ms
993:	learn: 0.2913520	total: 30.8s	remaining: 186ms
994:	learn: 0.2901354	total: 30.8s	remaining: 155ms
995:	learn: 0.2891858	total: 30.8s	remaining: 124ms
996:	learn: 0.2880957	total: 30.9s	remaining: 92.9ms
997:	learn: 0.2869536	total: 30.9s	remaining: 61.9ms
998:	learn: 0.2866359	total: 30.9s	remaining: 30.9ms
999:	learn: 0.2860888	total: 31s	remaining: 0us
0:	learn: 17.7495853	total: 5.42ms	remaining: 5.41s
1:	learn: 17.7046327	total: 10.4ms	remaining: 5.21s
2:	learn: 17.5861208	total: 57.2ms	remaining: 19s
3:	learn: 17.5415398	total: 62.2ms	remaining: 15.5s
4:	learn: 17.4547145	total: 154ms	remaining: 30.6s
5:	learn: 17.4158269	total: 159ms	remaining: 26.3s
6:	learn: 17.3827534	total: 164ms	remaining: 23.3s
7:	learn: 17.2570962	total: 256ms	remaining: 31.7s
8:	learn: 17.2177432	total: 263ms	remaining: 28.9s
9:	learn: 17.1791373	total: 353ms	remaining: 35s
10:	learn: 17.1410872	total: 359ms	remaining: 32.2s
11:	learn: 17.0206652	total: 364ms	remaining: 30s
12:	learn: 16.9865836	total: 446ms	remaining: 33.9s
13:	learn: 16.8913426	total: 453ms	remaining: 31.9s
14:	learn: 16.8545160	total: 544ms	remaining: 35.7s
15:	learn: 16.8219405	total: 548ms	remaining: 33.7s
16:	learn: 16.7292808	total: 559ms	remaining: 32.3s

17:	learn: 16.6885069	total: 643ms	remaining: 35.1s
18:	learn: 16.6531547	total: 650ms	remaining: 33.6s
19:	learn: 16.6197545	total: 741ms	remaining: 36.3s
20:	learn: 16.5192725	total: 746ms	remaining: 34.8s
21:	learn: 16.4825026	total: 839ms	remaining: 37.3s
22:	learn: 16.4584439	total: 844ms	remaining: 35.9s
23:	learn: 16.3605509	total: 945ms	remaining: 38.4s
24:	learn: 16.3279056	total: 955ms	remaining: 37.3s
25:	learn: 16.2498532	total: 963ms	remaining: 36.1s
26:	learn: 16.2195795	total: 1.04s	remaining: 37.4s
27:	learn: 16.1905274	total: 1.04s	remaining: 36.2s
28:	learn: 16.1617551	total: 1.13s	remaining: 37.9s
29:	learn: 16.0563628	total: 1.14s	remaining: 36.9s
30:	learn: 15.9737044	total: 1.23s	remaining: 38.4s
31:	learn: 15.9000165	total: 1.24s	remaining: 37.4s
32:	learn: 15.8299977	total: 1.24s	remaining: 36.4s
33:	learn: 15.7584570	total: 1.33s	remaining: 37.8s
34:	learn: 15.7294146	total: 1.33s	remaining: 36.8s
35:	learn: 15.6957343	total: 1.43s	remaining: 38.2s
36:	learn: 15.6666990	total: 1.43s	remaining: 37.3s
37:	learn: 15.5990499	total: 1.44s	remaining: 36.5s
38:	learn: 15.5708590	total: 1.53s	remaining: 37.7s
39:	learn: 15.5389722	total: 1.53s	remaining: 36.8s
40:	learn: 15.4583156	total: 1.63s	remaining: 38s
41:	learn: 15.3899897	total: 1.63s	remaining: 37.2s
42:	learn: 15.3625285	total: 1.64s	remaining: 36.4s
43:	learn: 15.3384006	total: 1.73s	remaining: 37.5s
44:	learn: 15.3111932	total: 1.73s	remaining: 36.7s
45:	learn: 15.2878577	total: 1.82s	remaining: 37.8s
46:	learn: 15.2642044	total: 1.82s	remaining: 37s
47:	learn: 15.2377940	total: 1.83s	remaining: 36.3s
48:	learn: 15.2147173	total: 1.92s	remaining: 37.3s
49:	learn: 15.1297315	total: 1.93s	remaining: 36.6s
50:	learn: 15.1045252	total: 2.02s	remaining: 37.5s
51:	learn: 15.0501173	total: 2.02s	remaining: 36.9s
52:	learn: 14.9741001	total: 2.03s	remaining: 36.2s
53:	learn: 14.9518035	total: 2.12s	remaining: 37.2s
54:	learn: 14.9296278	total: 2.13s	remaining: 36.6s
55:	learn: 14.8425109	total: 2.22s	remaining: 37.4s
56:	learn: 14.8186498	total: 2.22s	remaining: 36.8s
57:	learn: 14.7967512	total: 2.23s	remaining: 36.2s
58:	learn: 14.7381995	total: 2.32s	remaining: 36.9s
59:	learn: 14.7194287	total: 2.32s	remaining: 36.3s
60:	learn: 14.6968217	total: 2.32s	remaining: 35.8s
61:	learn: 14.6193052	total: 2.42s	remaining: 36.5s
62:	learn: 14.5972322	total: 2.42s	remaining: 36s
63:	learn: 14.5430730	total: 2.51s	remaining: 36.7s
64:	learn: 14.5065956	total: 2.52s	remaining: 36.2s
65:	learn: 14.4862816	total: 2.52s	remaining: 35.7s
66:	learn: 14.4224569	total: 2.61s	remaining: 36.4s
67:	learn: 14.3986209	total: 2.62s	remaining: 35.9s
68:	learn: 14.3756495	total: 2.71s	remaining: 36.6s
69:	learn: 14.3543534	total: 2.71s	remaining: 36.1s
70:	learn: 14.3294235	total: 2.81s	remaining: 36.7s
71:	learn: 14.2623726	total: 2.81s	remaining: 36.3s
72:	learn: 14.2426113	total: 2.9s	remaining: 36.9s
73:	learn: 14.2242990	total: 2.91s	remaining: 36.4s
74:	learn: 14.2068712	total: 2.92s	remaining: 36s
75:	learn: 14.1889529	total: 3.01s	remaining: 36.6s
76:	learn: 14.1712634	total: 3.01s	remaining: 36.1s
77:	learn: 14.1255651	total: 3.1s	remaining: 36.7s

78:	learn: 14.1087574	total: 3.11s	remaining: 36.2s
79:	learn: 14.0644459	total: 3.12s	remaining: 35.9s
80:	learn: 14.0289313	total: 3.2s	remaining: 36.4s
81:	learn: 13.9856050	total: 3.21s	remaining: 35.9s
82:	learn: 13.9351192	total: 3.3s	remaining: 36.5s
83:	learn: 13.8778001	total: 3.31s	remaining: 36.1s
84:	learn: 13.8612961	total: 3.4s	remaining: 36.6s
85:	learn: 13.8431618	total: 3.4s	remaining: 36.2s
86:	learn: 13.8035368	total: 3.5s	remaining: 36.7s
87:	learn: 13.7615285	total: 3.5s	remaining: 36.3s
88:	learn: 13.7393153	total: 3.51s	remaining: 35.9s
89:	learn: 13.7206032	total: 3.6s	remaining: 36.4s
90:	learn: 13.7059808	total: 3.6s	remaining: 36s
91:	learn: 13.6639179	total: 3.69s	remaining: 36.4s
92:	learn: 13.6354847	total: 3.7s	remaining: 36.1s
93:	learn: 13.6119580	total: 3.71s	remaining: 35.7s
94:	learn: 13.5946096	total: 3.79s	remaining: 36.1s
95:	learn: 13.5762537	total: 3.8s	remaining: 35.8s
96:	learn: 13.5624985	total: 3.89s	remaining: 36.2s
97:	learn: 13.5498937	total: 3.89s	remaining: 35.8s
98:	learn: 13.5324919	total: 3.9s	remaining: 35.5s
99:	learn: 13.5184957	total: 3.99s	remaining: 35.9s
100:	learn: 13.5044842	total: 4s	remaining: 35.6s
101:	learn: 13.4717243	total: 4.09s	remaining: 36s
102:	learn: 13.4565073	total: 4.09s	remaining: 35.6s
103:	learn: 13.4088590	total: 4.1s	remaining: 35.3s
104:	learn: 13.3484940	total: 4.19s	remaining: 35.7s
105:	learn: 13.3171749	total: 4.19s	remaining: 35.4s
106:	learn: 13.2748634	total: 4.29s	remaining: 35.8s
107:	learn: 13.2209270	total: 4.29s	remaining: 35.4s
108:	learn: 13.2064419	total: 4.29s	remaining: 35.1s
109:	learn: 13.1947653	total: 4.39s	remaining: 35.5s
110:	learn: 13.1814110	total: 4.39s	remaining: 35.2s
111:	learn: 13.1297000	total: 4.48s	remaining: 35.5s
112:	learn: 13.0807819	total: 4.49s	remaining: 35.2s
113:	learn: 13.0207466	total: 4.58s	remaining: 35.6s
114:	learn: 12.9866978	total: 4.58s	remaining: 35.3s
115:	learn: 12.9729190	total: 4.59s	remaining: 35s
116:	learn: 12.9480469	total: 4.68s	remaining: 35.3s
117:	learn: 12.9366769	total: 4.69s	remaining: 35s
118:	learn: 12.9221431	total: 4.78s	remaining: 35.4s
119:	learn: 12.8991237	total: 4.79s	remaining: 35.1s
120:	learn: 12.8843343	total: 4.87s	remaining: 35.4s
121:	learn: 12.8284046	total: 4.88s	remaining: 35.1s
122:	learn: 12.7884015	total: 4.89s	remaining: 34.8s
123:	learn: 12.7782522	total: 4.98s	remaining: 35.2s
124:	learn: 12.7615387	total: 4.99s	remaining: 34.9s
125:	learn: 12.7211394	total: 5.07s	remaining: 35.2s
126:	learn: 12.6840946	total: 5.08s	remaining: 34.9s
127:	learn: 12.6696508	total: 5.17s	remaining: 35.2s
128:	learn: 12.6602931	total: 5.18s	remaining: 35s
129:	learn: 12.6375660	total: 5.18s	remaining: 34.7s
130:	learn: 12.6261398	total: 5.27s	remaining: 35s
131:	learn: 12.5971877	total: 5.28s	remaining: 34.7s
132:	learn: 12.5791148	total: 5.37s	remaining: 35s
133:	learn: 12.5473763	total: 5.38s	remaining: 34.7s
134:	learn: 12.5032798	total: 5.46s	remaining: 35s
135:	learn: 12.4822739	total: 5.47s	remaining: 34.8s
136:	learn: 12.4731381	total: 5.48s	remaining: 34.5s
137:	learn: 12.4639333	total: 5.57s	remaining: 34.8s
138:	learn: 12.4304470	total: 5.58s	remaining: 34.5s

139:	learn: 12.4192729	total: 5.67s	remaining: 34.8s
140:	learn: 12.3743388	total: 5.67s	remaining: 34.6s
141:	learn: 12.3329739	total: 5.76s	remaining: 34.8s
142:	learn: 12.3228244	total: 5.77s	remaining: 34.6s
143:	learn: 12.2817896	total: 5.78s	remaining: 34.3s
144:	learn: 12.2729569	total: 5.86s	remaining: 34.6s
145:	learn: 12.2231878	total: 5.87s	remaining: 34.3s
146:	learn: 12.2133610	total: 5.96s	remaining: 34.6s
147:	learn: 12.1858445	total: 5.96s	remaining: 34.3s
148:	learn: 12.1763660	total: 6.05s	remaining: 34.6s
149:	learn: 12.1565624	total: 6.06s	remaining: 34.3s
150:	learn: 12.1447098	total: 6.07s	remaining: 34.1s
151:	learn: 12.1239782	total: 6.16s	remaining: 34.4s
152:	learn: 12.0823184	total: 6.16s	remaining: 34.1s
153:	learn: 12.0666389	total: 6.25s	remaining: 34.4s
154:	learn: 12.0588336	total: 6.26s	remaining: 34.1s
155:	learn: 12.0395102	total: 6.35s	remaining: 34.4s
156:	learn: 12.0245695	total: 6.36s	remaining: 34.1s
157:	learn: 12.0109177	total: 6.36s	remaining: 33.9s
158:	learn: 11.9943617	total: 6.46s	remaining: 34.1s
159:	learn: 11.9628026	total: 6.46s	remaining: 33.9s
160:	learn: 11.9188005	total: 6.55s	remaining: 34.1s
161:	learn: 11.8832438	total: 6.56s	remaining: 33.9s
162:	learn: 11.8716007	total: 6.65s	remaining: 34.1s
163:	learn: 11.8526553	total: 6.65s	remaining: 33.9s
164:	learn: 11.8451155	total: 6.66s	remaining: 33.7s
165:	learn: 11.8281409	total: 6.75s	remaining: 33.9s
166:	learn: 11.8233765	total: 6.75s	remaining: 33.7s
167:	learn: 11.8166176	total: 6.75s	remaining: 33.4s
168:	learn: 11.7740671	total: 6.84s	remaining: 33.7s
169:	learn: 11.7482229	total: 6.85s	remaining: 33.4s
170:	learn: 11.7066123	total: 6.86s	remaining: 33.2s
171:	learn: 11.6896177	total: 6.95s	remaining: 33.4s
172:	learn: 11.6773743	total: 6.95s	remaining: 33.2s
173:	learn: 11.6693472	total: 6.95s	remaining: 33s
174:	learn: 11.6633765	total: 7.04s	remaining: 33.2s
175:	learn: 11.6462344	total: 7.05s	remaining: 33s
176:	learn: 11.6165999	total: 7.14s	remaining: 33.2s
177:	learn: 11.6037848	total: 7.15s	remaining: 33s
178:	learn: 11.5978167	total: 7.24s	remaining: 33.2s
179:	learn: 11.5839428	total: 7.24s	remaining: 33s
180:	learn: 11.5767411	total: 7.25s	remaining: 32.8s
181:	learn: 11.5586958	total: 7.34s	remaining: 33s
182:	learn: 11.5379532	total: 7.35s	remaining: 32.8s
183:	learn: 11.5094447	total: 7.44s	remaining: 33s
184:	learn: 11.4996789	total: 7.44s	remaining: 32.8s
185:	learn: 11.4950711	total: 7.45s	remaining: 32.6s
186:	learn: 11.4874574	total: 7.54s	remaining: 32.8s
187:	learn: 11.4612613	total: 7.54s	remaining: 32.6s
188:	learn: 11.4341394	total: 7.64s	remaining: 32.8s
189:	learn: 11.3987256	total: 7.64s	remaining: 32.6s
190:	learn: 11.3692315	total: 7.73s	remaining: 32.8s
191:	learn: 11.3591481	total: 7.74s	remaining: 32.6s
192:	learn: 11.3453712	total: 7.75s	remaining: 32.4s
193:	learn: 11.3257169	total: 7.83s	remaining: 32.6s
194:	learn: 11.3222059	total: 7.83s	remaining: 32.3s
195:	learn: 11.3051716	total: 7.84s	remaining: 32.2s
196:	learn: 11.2624313	total: 7.93s	remaining: 32.3s
197:	learn: 11.2501449	total: 7.94s	remaining: 32.2s
198:	learn: 11.2351465	total: 8.03s	remaining: 32.3s
199:	learn: 11.2076321	total: 8.04s	remaining: 32.1s

200:	learn: 11.1716951	total: 8.13s	remaining: 32.3s
201:	learn: 11.1583118	total: 8.13s	remaining: 32.1s
202:	learn: 11.1253773	total: 8.14s	remaining: 31.9s
203:	learn: 11.1181852	total: 8.23s	remaining: 32.1s
204:	learn: 11.1110801	total: 8.23s	remaining: 31.9s
205:	learn: 11.0979161	total: 8.32s	remaining: 32.1s
206:	learn: 11.0884207	total: 8.33s	remaining: 31.9s
207:	learn: 11.0614929	total: 8.33s	remaining: 31.7s
208:	learn: 11.0561390	total: 8.43s	remaining: 31.9s
209:	learn: 11.0272449	total: 8.43s	remaining: 31.7s
210:	learn: 11.0149130	total: 8.52s	remaining: 31.9s
211:	learn: 11.0110657	total: 8.53s	remaining: 31.7s
212:	learn: 10.9973540	total: 8.62s	remaining: 31.8s
213:	learn: 10.9887030	total: 8.62s	remaining: 31.7s
214:	learn: 10.9716787	total: 8.63s	remaining: 31.5s
215:	learn: 10.9574704	total: 8.72s	remaining: 31.7s
216:	learn: 10.9505653	total: 8.73s	remaining: 31.5s
217:	learn: 10.9412079	total: 8.82s	remaining: 31.6s
218:	learn: 10.9322463	total: 8.82s	remaining: 31.5s
219:	learn: 10.9201913	total: 8.91s	remaining: 31.6s
220:	learn: 10.9043731	total: 8.92s	remaining: 31.4s
221:	learn: 10.8772629	total: 8.93s	remaining: 31.3s
222:	learn: 10.8653838	total: 9.02s	remaining: 31.4s
223:	learn: 10.8572085	total: 9.02s	remaining: 31.3s
224:	learn: 10.8508586	total: 9.11s	remaining: 31.4s
225:	learn: 10.8473171	total: 9.12s	remaining: 31.2s
226:	learn: 10.8264499	total: 9.13s	remaining: 31.1s
227:	learn: 10.8194906	total: 9.21s	remaining: 31.2s
228:	learn: 10.8079439	total: 9.22s	remaining: 31s
229:	learn: 10.8029548	total: 9.31s	remaining: 31.2s
230:	learn: 10.7997903	total: 9.32s	remaining: 31s
231:	learn: 10.7886710	total: 9.41s	remaining: 31.1s
232:	learn: 10.7751738	total: 9.41s	remaining: 31s
233:	learn: 10.7594556	total: 9.51s	remaining: 31.1s
234:	learn: 10.7529588	total: 9.51s	remaining: 31s
235:	learn: 10.7482600	total: 9.52s	remaining: 30.8s
236:	learn: 10.7455562	total: 9.61s	remaining: 30.9s
237:	learn: 10.7410998	total: 9.61s	remaining: 30.8s
238:	learn: 10.7088173	total: 9.7s	remaining: 30.9s
239:	learn: 10.7036804	total: 9.71s	remaining: 30.7s
240:	learn: 10.6996273	total: 9.71s	remaining: 30.6s
241:	learn: 10.6926025	total: 9.8s	remaining: 30.7s
242:	learn: 10.6810583	total: 9.81s	remaining: 30.6s
243:	learn: 10.6732949	total: 9.9s	remaining: 30.7s
244:	learn: 10.6619313	total: 9.9s	remaining: 30.5s
245:	learn: 10.6579742	total: 9.91s	remaining: 30.4s
246:	learn: 10.6331107	total: 10s	remaining: 30.5s
247:	learn: 10.6258139	total: 10s	remaining: 30.3s
248:	learn: 10.6153541	total: 10.1s	remaining: 30.5s
249:	learn: 10.6113958	total: 10.1s	remaining: 30.3s
250:	learn: 10.5955849	total: 10.1s	remaining: 30.2s
251:	learn: 10.5860277	total: 10.2s	remaining: 30.3s
252:	learn: 10.5731513	total: 10.2s	remaining: 30.1s
253:	learn: 10.5639999	total: 10.3s	remaining: 30.2s
254:	learn: 10.5577660	total: 10.3s	remaining: 30.1s
255:	learn: 10.5521200	total: 10.3s	remaining: 30s
256:	learn: 10.5484359	total: 10.4s	remaining: 30.1s
257:	learn: 10.5409338	total: 10.4s	remaining: 29.9s
258:	learn: 10.5379550	total: 10.5s	remaining: 30s
259:	learn: 10.5356548	total: 10.5s	remaining: 29.9s
260:	learn: 10.5241897	total: 10.6s	remaining: 30s

261:	learn: 10.5100895	total: 10.6s	remaining: 29.8s
262:	learn: 10.5051256	total: 10.6s	remaining: 29.7s
263:	learn: 10.4960553	total: 10.7s	remaining: 29.8s
264:	learn: 10.4927006	total: 10.7s	remaining: 29.7s
265:	learn: 10.4802847	total: 10.8s	remaining: 29.8s
266:	learn: 10.4653258	total: 10.8s	remaining: 29.6s
267:	learn: 10.4592043	total: 10.8s	remaining: 29.5s
268:	learn: 10.4522103	total: 10.9s	remaining: 29.6s
269:	learn: 10.4255823	total: 10.9s	remaining: 29.5s
270:	learn: 10.4186393	total: 11s	remaining: 29.5s
271:	learn: 10.4104117	total: 11s	remaining: 29.4s
272:	learn: 10.3968928	total: 11.1s	remaining: 29.5s
273:	learn: 10.3843045	total: 11.1s	remaining: 29.4s
274:	learn: 10.3681796	total: 11.2s	remaining: 29.5s
275:	learn: 10.3635201	total: 11.2s	remaining: 29.4s
276:	learn: 10.3390993	total: 11.3s	remaining: 29.4s
277:	learn: 10.3362176	total: 11.3s	remaining: 29.3s
278:	learn: 10.3199191	total: 11.3s	remaining: 29.2s
279:	learn: 10.3122145	total: 11.4s	remaining: 29.3s
280:	learn: 10.2975279	total: 11.4s	remaining: 29.1s
281:	learn: 10.2942078	total: 11.5s	remaining: 29.2s
282:	learn: 10.2832269	total: 11.5s	remaining: 29.1s
283:	learn: 10.2756805	total: 11.5s	remaining: 29s
284:	learn: 10.2681069	total: 11.6s	remaining: 29s
285:	learn: 10.2515118	total: 11.6s	remaining: 28.9s
286:	learn: 10.2479028	total: 11.7s	remaining: 29s
287:	learn: 10.2399618	total: 11.7s	remaining: 28.9s
288:	learn: 10.2251789	total: 11.7s	remaining: 28.8s
289:	learn: 10.2067777	total: 11.8s	remaining: 28.8s
290:	learn: 10.2038431	total: 11.8s	remaining: 28.7s
291:	learn: 10.2019268	total: 11.8s	remaining: 28.6s
292:	learn: 10.1804498	total: 11.9s	remaining: 28.6s
293:	learn: 10.1749090	total: 11.9s	remaining: 28.5s
294:	learn: 10.1731629	total: 12s	remaining: 28.6s
295:	learn: 10.1498360	total: 12s	remaining: 28.5s
296:	learn: 10.1474002	total: 12.1s	remaining: 28.6s
297:	learn: 10.1355664	total: 12.1s	remaining: 28.4s
298:	learn: 10.1151872	total: 12.1s	remaining: 28.3s
299:	learn: 10.1033164	total: 12.2s	remaining: 28.4s
300:	learn: 10.0934666	total: 12.2s	remaining: 28.3s
301:	learn: 10.0630068	total: 12.3s	remaining: 28.3s
302:	learn: 10.0560114	total: 12.3s	remaining: 28.2s
303:	learn: 10.0503013	total: 12.4s	remaining: 28.3s
304:	learn: 10.0447271	total: 12.4s	remaining: 28.2s
305:	learn: 10.0181829	total: 12.4s	remaining: 28.1s
306:	learn: 10.0075960	total: 12.5s	remaining: 28.2s
307:	learn: 10.0017242	total: 12.5s	remaining: 28.1s
308:	learn: 9.9998534	total: 12.6s	remaining: 28.1s
309:	learn: 9.9788301	total: 12.6s	remaining: 28s
310:	learn: 9.9661979	total: 12.7s	remaining: 28s
311:	learn: 9.9533549	total: 12.7s	remaining: 27.9s
312:	learn: 9.9266164	total: 12.8s	remaining: 28s
313:	learn: 9.9033293	total: 12.8s	remaining: 27.9s
314:	learn: 9.9014152	total: 12.8s	remaining: 27.8s
315:	learn: 9.8860235	total: 12.9s	remaining: 27.8s
316:	learn: 9.8805958	total: 12.9s	remaining: 27.7s
317:	learn: 9.8672640	total: 13s	remaining: 27.8s
318:	learn: 9.8541911	total: 13s	remaining: 27.7s
319:	learn: 9.8385038	total: 13.1s	remaining: 27.7s
320:	learn: 9.8304027	total: 13.1s	remaining: 27.6s
321:	learn: 9.8285635	total: 13.1s	remaining: 27.5s

322:	learn: 9.8233086	total: 13.2s	remaining: 27.6s
323:	learn: 9.8173045	total: 13.2s	remaining: 27.4s
324:	learn: 9.8075875	total: 13.2s	remaining: 27.5s
325:	learn: 9.8025051	total: 13.3s	remaining: 27.4s
326:	learn: 9.7958688	total: 13.3s	remaining: 27.3s
327:	learn: 9.7913028	total: 13.3s	remaining: 27.3s
328:	learn: 9.7885118	total: 13.4s	remaining: 27.2s
329:	learn: 9.7851837	total: 13.4s	remaining: 27.3s
330:	learn: 9.7745365	total: 13.5s	remaining: 27.2s
331:	learn: 9.7689500	total: 13.5s	remaining: 27.2s
332:	learn: 9.7473517	total: 13.5s	remaining: 27.1s
333:	learn: 9.7423788	total: 13.6s	remaining: 27s
334:	learn: 9.7353973	total: 13.6s	remaining: 27.1s
335:	learn: 9.7253029	total: 13.7s	remaining: 27s
336:	learn: 9.7219645	total: 13.7s	remaining: 27s
337:	learn: 9.7171496	total: 13.7s	remaining: 26.9s
338:	learn: 9.6979015	total: 13.8s	remaining: 27s
339:	learn: 9.6957997	total: 13.8s	remaining: 26.9s
340:	learn: 9.6942408	total: 13.9s	remaining: 26.9s
341:	learn: 9.6836063	total: 13.9s	remaining: 26.8s
342:	learn: 9.6757056	total: 13.9s	remaining: 26.7s
343:	learn: 9.6663514	total: 14s	remaining: 26.8s
344:	learn: 9.6572817	total: 14s	remaining: 26.7s
345:	learn: 9.6425631	total: 14.1s	remaining: 26.7s
346:	learn: 9.6385973	total: 14.1s	remaining: 26.6s
347:	learn: 9.6265453	total: 14.1s	remaining: 26.5s
348:	learn: 9.6224595	total: 14.2s	remaining: 26.6s
349:	learn: 9.6065427	total: 14.2s	remaining: 26.4s
350:	learn: 9.6028349	total: 14.2s	remaining: 26.3s
351:	learn: 9.5795038	total: 14.3s	remaining: 26.4s
352:	learn: 9.5723041	total: 14.3s	remaining: 26.3s
353:	learn: 9.5626164	total: 14.4s	remaining: 26.3s
354:	learn: 9.5535293	total: 14.4s	remaining: 26.2s
355:	learn: 9.5479168	total: 14.5s	remaining: 26.3s
356:	learn: 9.5431151	total: 14.5s	remaining: 26.2s
357:	learn: 9.5211205	total: 14.6s	remaining: 26.2s
358:	learn: 9.5183759	total: 14.6s	remaining: 26.1s
359:	learn: 9.5171780	total: 14.6s	remaining: 26s
360:	learn: 9.5082624	total: 14.7s	remaining: 26.1s
361:	learn: 9.4944686	total: 14.7s	remaining: 26s
362:	learn: 9.4799475	total: 14.8s	remaining: 26s
363:	learn: 9.4701006	total: 14.8s	remaining: 25.9s
364:	learn: 9.4561839	total: 14.9s	remaining: 26s
365:	learn: 9.4500254	total: 14.9s	remaining: 25.9s
366:	learn: 9.4367767	total: 15s	remaining: 25.9s
367:	learn: 9.4307723	total: 15s	remaining: 25.8s
368:	learn: 9.4262017	total: 15.1s	remaining: 25.9s
369:	learn: 9.4207646	total: 15.2s	remaining: 25.8s
370:	learn: 9.4117214	total: 15.2s	remaining: 25.8s
371:	learn: 9.4041405	total: 15.2s	remaining: 25.7s
372:	learn: 9.3950852	total: 15.3s	remaining: 25.7s
373:	learn: 9.3889281	total: 15.3s	remaining: 25.6s
374:	learn: 9.3846488	total: 15.4s	remaining: 25.7s
375:	learn: 9.3723019	total: 15.4s	remaining: 25.6s
376:	learn: 9.3618426	total: 15.4s	remaining: 25.5s
377:	learn: 9.3492016	total: 15.5s	remaining: 25.5s
378:	learn: 9.3202101	total: 15.5s	remaining: 25.4s
379:	learn: 9.3081333	total: 15.6s	remaining: 25.5s
380:	learn: 9.3000387	total: 15.6s	remaining: 25.4s
381:	learn: 9.2944397	total: 15.7s	remaining: 25.4s
382:	learn: 9.2905274	total: 15.7s	remaining: 25.3s

383:	learn: 9.2803023	total: 15.7s	remaining: 25.2s
384:	learn: 9.2700271	total: 15.8s	remaining: 25.3s
385:	learn: 9.2423269	total: 15.8s	remaining: 25.2s
386:	learn: 9.2341850	total: 15.9s	remaining: 25.2s
387:	learn: 9.2119770	total: 15.9s	remaining: 25.1s
388:	learn: 9.1977002	total: 16s	remaining: 25.1s
389:	learn: 9.1887859	total: 16s	remaining: 25.1s
390:	learn: 9.1808033	total: 16.1s	remaining: 25.1s
391:	learn: 9.1631754	total: 16.1s	remaining: 25s
392:	learn: 9.1457884	total: 16.1s	remaining: 24.9s
393:	learn: 9.1396569	total: 16.2s	remaining: 24.9s
394:	learn: 9.1128373	total: 16.2s	remaining: 24.8s
395:	learn: 9.0962405	total: 16.3s	remaining: 24.9s
396:	learn: 9.0841076	total: 16.3s	remaining: 24.8s
397:	learn: 9.0596044	total: 16.4s	remaining: 24.8s
398:	learn: 9.0477277	total: 16.4s	remaining: 24.7s
399:	learn: 9.0189292	total: 16.4s	remaining: 24.6s
400:	learn: 9.0057270	total: 16.5s	remaining: 24.6s
401:	learn: 8.9869702	total: 16.5s	remaining: 24.5s
402:	learn: 8.9704037	total: 16.6s	remaining: 24.6s
403:	learn: 8.9600878	total: 16.6s	remaining: 24.5s
404:	learn: 8.9494043	total: 16.7s	remaining: 24.5s
405:	learn: 8.9332935	total: 16.8s	remaining: 24.6s
406:	learn: 8.9267139	total: 16.8s	remaining: 24.5s
407:	learn: 8.9201608	total: 16.9s	remaining: 24.5s
408:	learn: 8.9052947	total: 16.9s	remaining: 24.4s
409:	learn: 8.8905681	total: 17s	remaining: 24.4s
410:	learn: 8.8804301	total: 17s	remaining: 24.4s
411:	learn: 8.8533723	total: 17.1s	remaining: 24.4s
412:	learn: 8.8430337	total: 17.1s	remaining: 24.3s
413:	learn: 8.8366142	total: 17.2s	remaining: 24.3s
414:	learn: 8.8262388	total: 17.2s	remaining: 24.3s
415:	learn: 8.8229132	total: 17.3s	remaining: 24.3s
416:	learn: 8.8161752	total: 17.3s	remaining: 24.2s
417:	learn: 8.7951361	total: 17.4s	remaining: 24.2s
418:	learn: 8.7891156	total: 17.4s	remaining: 24.1s
419:	learn: 8.7800800	total: 17.5s	remaining: 24.1s
420:	learn: 8.7609984	total: 17.5s	remaining: 24s
421:	learn: 8.7385198	total: 17.5s	remaining: 24s
422:	learn: 8.7291922	total: 17.6s	remaining: 24s
423:	learn: 8.7206830	total: 17.6s	remaining: 23.9s
424:	learn: 8.7070519	total: 17.7s	remaining: 23.9s
425:	learn: 8.6867667	total: 17.8s	remaining: 23.9s
426:	learn: 8.6784652	total: 17.8s	remaining: 23.9s
427:	learn: 8.6720594	total: 17.9s	remaining: 23.9s
428:	learn: 8.6687450	total: 17.9s	remaining: 23.8s
429:	learn: 8.6634243	total: 17.9s	remaining: 23.7s
430:	learn: 8.6591850	total: 17.9s	remaining: 23.6s
431:	learn: 8.6459939	total: 18s	remaining: 23.6s
432:	learn: 8.6416713	total: 18s	remaining: 23.6s
433:	learn: 8.6392578	total: 18s	remaining: 23.5s
434:	learn: 8.6190262	total: 18.1s	remaining: 23.5s
435:	learn: 8.6052687	total: 18.1s	remaining: 23.4s
436:	learn: 8.5889376	total: 18.2s	remaining: 23.4s
437:	learn: 8.5736553	total: 18.2s	remaining: 23.3s
438:	learn: 8.5591144	total: 18.3s	remaining: 23.4s
439:	learn: 8.5538976	total: 18.3s	remaining: 23.3s
440:	learn: 8.5436114	total: 18.4s	remaining: 23.3s
441:	learn: 8.5258107	total: 18.4s	remaining: 23.2s
442:	learn: 8.5043820	total: 18.5s	remaining: 23.2s
443:	learn: 8.4921996	total: 18.5s	remaining: 23.1s

444:	learn: 8.4787630	total: 18.5s	remaining: 23.1s
445:	learn: 8.4652221	total: 18.6s	remaining: 23.1s
446:	learn: 8.4612133	total: 18.6s	remaining: 23s
447:	learn: 8.4478872	total: 18.7s	remaining: 23s
448:	learn: 8.4385115	total: 18.7s	remaining: 22.9s
449:	learn: 8.4353636	total: 18.8s	remaining: 22.9s
450:	learn: 8.4264508	total: 18.8s	remaining: 22.9s
451:	learn: 8.4178971	total: 18.8s	remaining: 22.8s
452:	learn: 8.4068177	total: 18.9s	remaining: 22.8s
453:	learn: 8.3905129	total: 18.9s	remaining: 22.7s
454:	learn: 8.3754332	total: 19s	remaining: 22.7s
455:	learn: 8.3722878	total: 19s	remaining: 22.6s
456:	learn: 8.3688953	total: 19s	remaining: 22.6s
457:	learn: 8.3582467	total: 19.1s	remaining: 22.6s
458:	learn: 8.3471706	total: 19.1s	remaining: 22.5s
459:	learn: 8.3378093	total: 19.2s	remaining: 22.5s
460:	learn: 8.3240711	total: 19.2s	remaining: 22.4s
461:	learn: 8.3137360	total: 19.3s	remaining: 22.4s
462:	learn: 8.2921980	total: 19.3s	remaining: 22.4s
463:	learn: 8.2795966	total: 19.4s	remaining: 22.4s
464:	learn: 8.2612601	total: 19.4s	remaining: 22.3s
465:	learn: 8.2483827	total: 19.4s	remaining: 22.2s
466:	learn: 8.2344831	total: 19.5s	remaining: 22.2s
467:	learn: 8.2314518	total: 19.5s	remaining: 22.1s
468:	learn: 8.2206790	total: 19.6s	remaining: 22.2s
469:	learn: 8.2088029	total: 19.6s	remaining: 22.1s
470:	learn: 8.1997115	total: 19.7s	remaining: 22.1s
471:	learn: 8.1911594	total: 19.7s	remaining: 22s
472:	learn: 8.1880957	total: 19.8s	remaining: 22s
473:	learn: 8.1685228	total: 19.8s	remaining: 21.9s
474:	learn: 8.1525731	total: 19.8s	remaining: 21.9s
475:	learn: 8.1360120	total: 19.9s	remaining: 21.9s
476:	learn: 8.1236628	total: 19.9s	remaining: 21.8s
477:	learn: 8.1155196	total: 20s	remaining: 21.8s
478:	learn: 8.1121435	total: 20s	remaining: 21.7s
479:	learn: 8.1037911	total: 20.1s	remaining: 21.7s
480:	learn: 8.0920810	total: 20.1s	remaining: 21.6s
481:	learn: 8.0796318	total: 20.1s	remaining: 21.6s
482:	learn: 8.0653905	total: 20.2s	remaining: 21.6s
483:	learn: 8.0545868	total: 20.2s	remaining: 21.5s
484:	learn: 8.0509660	total: 20.3s	remaining: 21.5s
485:	learn: 8.0429832	total: 20.3s	remaining: 21.4s
486:	learn: 8.0371749	total: 20.3s	remaining: 21.3s
487:	learn: 8.0267815	total: 20.4s	remaining: 21.4s
488:	learn: 8.0177842	total: 20.4s	remaining: 21.3s
489:	learn: 8.0065482	total: 20.5s	remaining: 21.3s
490:	learn: 7.9994149	total: 20.5s	remaining: 21.2s
491:	learn: 7.9907659	total: 20.5s	remaining: 21.2s
492:	learn: 7.9779230	total: 20.6s	remaining: 21.1s
493:	learn: 7.9749254	total: 20.6s	remaining: 21.1s
494:	learn: 7.9663519	total: 20.6s	remaining: 21.1s
495:	learn: 7.9564067	total: 20.7s	remaining: 21s
496:	learn: 7.9518414	total: 20.7s	remaining: 21s
497:	learn: 7.9381154	total: 20.8s	remaining: 20.9s
498:	learn: 7.9292866	total: 20.8s	remaining: 20.9s
499:	learn: 7.9246432	total: 20.9s	remaining: 20.9s
500:	learn: 7.9164685	total: 20.9s	remaining: 20.8s
501:	learn: 7.9064129	total: 20.9s	remaining: 20.8s
502:	learn: 7.8992650	total: 21s	remaining: 20.7s
503:	learn: 7.8959660	total: 21s	remaining: 20.7s
504:	learn: 7.8878202	total: 21s	remaining: 20.6s

505:	learn: 7.8723276	total: 21.1s	remaining: 20.6s
506:	learn: 7.8636012	total: 21.1s	remaining: 20.6s
507:	learn: 7.8603526	total: 21.1s	remaining: 20.5s
508:	learn: 7.8485339	total: 21.2s	remaining: 20.5s
509:	learn: 7.8468721	total: 21.2s	remaining: 20.4s
510:	learn: 7.8389202	total: 21.3s	remaining: 20.4s
511:	learn: 7.8305493	total: 21.3s	remaining: 20.3s
512:	learn: 7.8270788	total: 21.4s	remaining: 20.3s
513:	learn: 7.8143438	total: 21.4s	remaining: 20.3s
514:	learn: 7.8066681	total: 21.4s	remaining: 20.2s
515:	learn: 7.8027410	total: 21.5s	remaining: 20.2s
516:	learn: 7.7934776	total: 21.5s	remaining: 20.1s
517:	learn: 7.7914421	total: 21.5s	remaining: 20s
518:	learn: 7.7894155	total: 21.6s	remaining: 20.1s
519:	learn: 7.7806300	total: 21.6s	remaining: 20s
520:	learn: 7.7700571	total: 21.7s	remaining: 20s
521:	learn: 7.7603437	total: 21.7s	remaining: 19.9s
522:	learn: 7.7546388	total: 21.8s	remaining: 19.9s
523:	learn: 7.7464445	total: 21.8s	remaining: 19.8s
524:	learn: 7.7442055	total: 21.8s	remaining: 19.8s
525:	learn: 7.7325805	total: 21.9s	remaining: 19.8s
526:	learn: 7.7233194	total: 21.9s	remaining: 19.7s
527:	learn: 7.7184036	total: 21.9s	remaining: 19.6s
528:	learn: 7.7139082	total: 22s	remaining: 19.6s
529:	learn: 7.7027658	total: 22s	remaining: 19.5s
530:	learn: 7.6977780	total: 22.1s	remaining: 19.5s
531:	learn: 7.6957402	total: 22.1s	remaining: 19.5s
532:	learn: 7.6868289	total: 22.2s	remaining: 19.5s
533:	learn: 7.6778650	total: 22.2s	remaining: 19.4s
534:	learn: 7.6765506	total: 22.2s	remaining: 19.3s
535:	learn: 7.6622991	total: 22.3s	remaining: 19.3s
536:	learn: 7.6613134	total: 22.3s	remaining: 19.3s
537:	learn: 7.6519410	total: 22.3s	remaining: 19.2s
538:	learn: 7.6438577	total: 22.4s	remaining: 19.2s
539:	learn: 7.6336627	total: 22.4s	remaining: 19.1s
540:	learn: 7.6251608	total: 22.5s	remaining: 19.1s
541:	learn: 7.6103345	total: 22.5s	remaining: 19s
542:	learn: 7.6046940	total: 22.6s	remaining: 19s
543:	learn: 7.5962659	total: 22.6s	remaining: 19s
544:	learn: 7.5898588	total: 22.7s	remaining: 19s
545:	learn: 7.5792568	total: 22.7s	remaining: 18.9s
546:	learn: 7.5708830	total: 22.7s	remaining: 18.8s
547:	learn: 7.5647206	total: 22.8s	remaining: 18.8s
548:	learn: 7.5528606	total: 22.8s	remaining: 18.7s
549:	learn: 7.5416506	total: 22.9s	remaining: 18.7s
550:	learn: 7.5334408	total: 22.9s	remaining: 18.7s
551:	learn: 7.5274585	total: 22.9s	remaining: 18.6s
552:	learn: 7.5252280	total: 23s	remaining: 18.6s
553:	learn: 7.5219774	total: 23s	remaining: 18.5s
554:	learn: 7.5199079	total: 23s	remaining: 18.5s
555:	learn: 7.5128368	total: 23.1s	remaining: 18.5s
556:	learn: 7.4985027	total: 23.1s	remaining: 18.4s
557:	learn: 7.4898719	total: 23.2s	remaining: 18.4s
558:	learn: 7.4777613	total: 23.2s	remaining: 18.3s
559:	learn: 7.4770449	total: 23.3s	remaining: 18.3s
560:	learn: 7.4654326	total: 23.3s	remaining: 18.2s
561:	learn: 7.4558306	total: 23.3s	remaining: 18.2s
562:	learn: 7.4534624	total: 23.4s	remaining: 18.2s
563:	learn: 7.4449155	total: 23.4s	remaining: 18.1s
564:	learn: 7.4434707	total: 23.5s	remaining: 18.1s
565:	learn: 7.4341430	total: 23.5s	remaining: 18s

566:	learn: 7.4271215	total: 23.5s	remaining: 18s
567:	learn: 7.4174201	total: 23.6s	remaining: 18s
568:	learn: 7.4156052	total: 23.6s	remaining: 17.9s
569:	learn: 7.4053136	total: 23.7s	remaining: 17.9s
570:	learn: 7.3968845	total: 23.7s	remaining: 17.8s
571:	learn: 7.3956160	total: 23.8s	remaining: 17.8s
572:	learn: 7.3944233	total: 23.8s	remaining: 17.7s
573:	learn: 7.3854002	total: 23.8s	remaining: 17.7s
574:	learn: 7.3711780	total: 23.9s	remaining: 17.7s
575:	learn: 7.3631340	total: 23.9s	remaining: 17.6s
576:	learn: 7.3495723	total: 24s	remaining: 17.6s
577:	learn: 7.3396527	total: 24s	remaining: 17.5s
578:	learn: 7.3292124	total: 24s	remaining: 17.5s
579:	learn: 7.3197168	total: 24.1s	remaining: 17.5s
580:	learn: 7.3165087	total: 24.1s	remaining: 17.4s
581:	learn: 7.3130504	total: 24.2s	remaining: 17.4s
582:	learn: 7.3120126	total: 24.2s	remaining: 17.3s
583:	learn: 7.3073429	total: 24.3s	remaining: 17.3s
584:	learn: 7.2959578	total: 24.3s	remaining: 17.2s
585:	learn: 7.2853101	total: 24.3s	remaining: 17.2s
586:	learn: 7.2792618	total: 24.4s	remaining: 17.2s
587:	learn: 7.2780113	total: 24.4s	remaining: 17.1s
588:	learn: 7.2677500	total: 24.5s	remaining: 17.1s
589:	learn: 7.2578399	total: 24.5s	remaining: 17s
590:	learn: 7.2489642	total: 24.6s	remaining: 17s
591:	learn: 7.2441444	total: 24.6s	remaining: 17s
592:	learn: 7.2298299	total: 24.6s	remaining: 16.9s
593:	learn: 7.2280411	total: 24.7s	remaining: 16.9s
594:	learn: 7.2186629	total: 24.7s	remaining: 16.8s
595:	learn: 7.2107236	total: 24.8s	remaining: 16.8s
596:	learn: 7.2060242	total: 24.8s	remaining: 16.7s
597:	learn: 7.1984189	total: 24.9s	remaining: 16.7s
598:	learn: 7.1888215	total: 24.9s	remaining: 16.7s
599:	learn: 7.1781488	total: 25s	remaining: 16.7s
600:	learn: 7.1632076	total: 25s	remaining: 16.6s
601:	learn: 7.1572615	total: 25.1s	remaining: 16.6s
602:	learn: 7.1494541	total: 25.1s	remaining: 16.5s
603:	learn: 7.1473905	total: 25.1s	remaining: 16.5s
604:	learn: 7.1420846	total: 25.2s	remaining: 16.4s
605:	learn: 7.1278014	total: 25.2s	remaining: 16.4s
606:	learn: 7.1215524	total: 25.3s	remaining: 16.4s
607:	learn: 7.1106209	total: 25.3s	remaining: 16.3s
608:	learn: 7.1095696	total: 25.3s	remaining: 16.2s
609:	learn: 7.0991736	total: 25.4s	remaining: 16.2s
610:	learn: 7.0916822	total: 25.4s	remaining: 16.2s
611:	learn: 7.0846391	total: 25.5s	remaining: 16.2s
612:	learn: 7.0698898	total: 25.5s	remaining: 16.1s
613:	learn: 7.0654749	total: 25.6s	remaining: 16.1s
614:	learn: 7.0573912	total: 25.6s	remaining: 16s
615:	learn: 7.0509601	total: 25.6s	remaining: 15.9s
616:	learn: 7.0387161	total: 25.7s	remaining: 15.9s
617:	learn: 7.0282831	total: 25.7s	remaining: 15.9s
618:	learn: 7.0224846	total: 25.8s	remaining: 15.9s
619:	learn: 7.0167797	total: 25.8s	remaining: 15.8s
620:	learn: 7.0044063	total: 25.9s	remaining: 15.8s
621:	learn: 6.9959678	total: 25.9s	remaining: 15.7s
622:	learn: 6.9906442	total: 25.9s	remaining: 15.7s
623:	learn: 6.9805423	total: 26s	remaining: 15.7s
624:	learn: 6.9706738	total: 26s	remaining: 15.6s
625:	learn: 6.9614979	total: 26.1s	remaining: 15.6s
626:	learn: 6.9500301	total: 26.1s	remaining: 15.5s

627:	learn: 6.9424969	total: 26.2s	remaining: 15.5s
628:	learn: 6.9378664	total: 26.2s	remaining: 15.4s
629:	learn: 6.9286848	total: 26.2s	remaining: 15.4s
630:	learn: 6.9214049	total: 26.3s	remaining: 15.4s
631:	learn: 6.9139775	total: 26.3s	remaining: 15.3s
632:	learn: 6.9092091	total: 26.4s	remaining: 15.3s
633:	learn: 6.9034654	total: 26.4s	remaining: 15.2s
634:	learn: 6.8972051	total: 26.4s	remaining: 15.2s
635:	learn: 6.8963865	total: 26.5s	remaining: 15.1s
636:	learn: 6.8919608	total: 26.5s	remaining: 15.1s
637:	learn: 6.8907606	total: 26.6s	remaining: 15.1s
638:	learn: 6.8783157	total: 26.6s	remaining: 15s
639:	learn: 6.8776735	total: 26.6s	remaining: 14.9s
640:	learn: 6.8674833	total: 26.7s	remaining: 14.9s
641:	learn: 6.8614089	total: 26.7s	remaining: 14.9s
642:	learn: 6.8544391	total: 26.7s	remaining: 14.8s
643:	learn: 6.8485341	total: 26.8s	remaining: 14.8s
644:	learn: 6.8346319	total: 26.8s	remaining: 14.7s
645:	learn: 6.8286557	total: 26.9s	remaining: 14.7s
646:	learn: 6.8239426	total: 26.9s	remaining: 14.7s
647:	learn: 6.8187130	total: 27s	remaining: 14.6s
648:	learn: 6.8112475	total: 27s	remaining: 14.6s
649:	learn: 6.8052476	total: 27.1s	remaining: 14.6s
650:	learn: 6.8010898	total: 27.1s	remaining: 14.5s
651:	learn: 6.8002860	total: 27.2s	remaining: 14.5s
652:	learn: 6.7936489	total: 27.2s	remaining: 14.4s
653:	learn: 6.7897192	total: 27.3s	remaining: 14.4s
654:	learn: 6.7799411	total: 27.3s	remaining: 14.4s
655:	learn: 6.7742779	total: 27.4s	remaining: 14.3s
656:	learn: 6.7700025	total: 27.4s	remaining: 14.3s
657:	learn: 6.7632481	total: 27.4s	remaining: 14.2s
658:	learn: 6.7626430	total: 27.5s	remaining: 14.2s
659:	learn: 6.7566459	total: 27.5s	remaining: 14.1s
660:	learn: 6.7470474	total: 27.5s	remaining: 14.1s
661:	learn: 6.7397732	total: 27.6s	remaining: 14.1s
662:	learn: 6.7383017	total: 27.6s	remaining: 14s
663:	learn: 6.7286115	total: 27.6s	remaining: 14s
664:	learn: 6.7206533	total: 27.7s	remaining: 13.9s
665:	learn: 6.7116088	total: 27.7s	remaining: 13.9s
666:	learn: 6.7111779	total: 27.8s	remaining: 13.9s
667:	learn: 6.7049783	total: 27.8s	remaining: 13.8s
668:	learn: 6.7005279	total: 27.9s	remaining: 13.8s
669:	learn: 6.6955924	total: 27.9s	remaining: 13.7s
670:	learn: 6.6882913	total: 27.9s	remaining: 13.7s
671:	learn: 6.6782038	total: 28s	remaining: 13.6s
672:	learn: 6.6715416	total: 28s	remaining: 13.6s
673:	learn: 6.6664460	total: 28s	remaining: 13.6s
674:	learn: 6.6658854	total: 28.1s	remaining: 13.5s
675:	learn: 6.6586845	total: 28.1s	remaining: 13.5s
676:	learn: 6.6513349	total: 28.1s	remaining: 13.4s
677:	learn: 6.6450340	total: 28.2s	remaining: 13.4s
678:	learn: 6.6437093	total: 28.2s	remaining: 13.4s
679:	learn: 6.6431676	total: 28.2s	remaining: 13.3s
680:	learn: 6.6375102	total: 28.3s	remaining: 13.3s
681:	learn: 6.6327235	total: 28.3s	remaining: 13.2s
682:	learn: 6.6322612	total: 28.4s	remaining: 13.2s
683:	learn: 6.6240416	total: 28.4s	remaining: 13.1s
684:	learn: 6.6167728	total: 28.5s	remaining: 13.1s
685:	learn: 6.6094198	total: 28.5s	remaining: 13.1s
686:	learn: 6.6054068	total: 28.6s	remaining: 13s
687:	learn: 6.5938146	total: 28.6s	remaining: 13s

688:	learn: 6.5914901	total: 28.7s	remaining: 13s
689:	learn: 6.5845101	total: 28.7s	remaining: 12.9s
690:	learn: 6.5835575	total: 28.7s	remaining: 12.9s
691:	learn: 6.5828399	total: 28.8s	remaining: 12.8s
692:	learn: 6.5733710	total: 28.8s	remaining: 12.8s
693:	learn: 6.5685541	total: 28.9s	remaining: 12.8s
694:	learn: 6.5571253	total: 28.9s	remaining: 12.7s
695:	learn: 6.5489882	total: 29s	remaining: 12.7s
696:	learn: 6.5441199	total: 29s	remaining: 12.6s
697:	learn: 6.5415002	total: 29s	remaining: 12.6s
698:	learn: 6.5408119	total: 29.1s	remaining: 12.5s
699:	learn: 6.5347679	total: 29.1s	remaining: 12.5s
700:	learn: 6.5316698	total: 29.2s	remaining: 12.5s
701:	learn: 6.5310957	total: 29.2s	remaining: 12.4s
702:	learn: 6.5234743	total: 29.3s	remaining: 12.4s
703:	learn: 6.5198871	total: 29.3s	remaining: 12.3s
704:	learn: 6.5192703	total: 29.3s	remaining: 12.3s
705:	learn: 6.5100282	total: 29.4s	remaining: 12.3s
706:	learn: 6.5033605	total: 29.4s	remaining: 12.2s
707:	learn: 6.4956118	total: 29.5s	remaining: 12.2s
708:	learn: 6.4887743	total: 29.5s	remaining: 12.1s
709:	learn: 6.4869585	total: 29.6s	remaining: 12.1s
710:	learn: 6.4863387	total: 29.6s	remaining: 12s
711:	learn: 6.4798023	total: 29.6s	remaining: 12s
712:	learn: 6.4704408	total: 29.7s	remaining: 12s
713:	learn: 6.4674424	total: 29.7s	remaining: 11.9s
714:	learn: 6.4579060	total: 29.8s	remaining: 11.9s
715:	learn: 6.4425797	total: 29.8s	remaining: 11.8s
716:	learn: 6.4337240	total: 29.9s	remaining: 11.8s
717:	learn: 6.4270144	total: 29.9s	remaining: 11.8s
718:	learn: 6.4210434	total: 29.9s	remaining: 11.7s
719:	learn: 6.4143165	total: 30s	remaining: 11.7s
720:	learn: 6.4085182	total: 30s	remaining: 11.6s
721:	learn: 6.4065402	total: 30.1s	remaining: 11.6s
722:	learn: 6.4038800	total: 30.1s	remaining: 11.5s
723:	learn: 6.3983907	total: 30.1s	remaining: 11.5s
724:	learn: 6.3923678	total: 30.2s	remaining: 11.5s
725:	learn: 6.3876124	total: 30.2s	remaining: 11.4s
726:	learn: 6.3868238	total: 30.3s	remaining: 11.4s
727:	learn: 6.3820599	total: 30.3s	remaining: 11.3s
728:	learn: 6.3776821	total: 30.4s	remaining: 11.3s
729:	learn: 6.3696645	total: 30.4s	remaining: 11.2s
730:	learn: 6.3620812	total: 30.4s	remaining: 11.2s
731:	learn: 6.3535792	total: 30.5s	remaining: 11.2s
732:	learn: 6.3527155	total: 30.5s	remaining: 11.1s
733:	learn: 6.3493742	total: 30.6s	remaining: 11.1s
734:	learn: 6.3441576	total: 30.6s	remaining: 11s
735:	learn: 6.3374127	total: 30.7s	remaining: 11s
736:	learn: 6.3313147	total: 30.7s	remaining: 11s
737:	learn: 6.3216339	total: 30.7s	remaining: 10.9s
738:	learn: 6.3144654	total: 30.8s	remaining: 10.9s
739:	learn: 6.3090622	total: 30.8s	remaining: 10.8s
740:	learn: 6.3032096	total: 30.9s	remaining: 10.8s
741:	learn: 6.2947182	total: 30.9s	remaining: 10.7s
742:	learn: 6.2859467	total: 31s	remaining: 10.7s
743:	learn: 6.2848727	total: 31s	remaining: 10.7s
744:	learn: 6.2835227	total: 31.1s	remaining: 10.6s
745:	learn: 6.2780381	total: 31.1s	remaining: 10.6s
746:	learn: 6.2765403	total: 31.1s	remaining: 10.5s
747:	learn: 6.2722860	total: 31.2s	remaining: 10.5s
748:	learn: 6.2655203	total: 31.2s	remaining: 10.5s

749:	learn: 6.2601986	total: 31.3s	remaining: 10.4s
750:	learn: 6.2534914	total: 31.3s	remaining: 10.4s
751:	learn: 6.2503488	total: 31.3s	remaining: 10.3s
752:	learn: 6.2448717	total: 31.4s	remaining: 10.3s
753:	learn: 6.2427421	total: 31.4s	remaining: 10.2s
754:	learn: 6.2413401	total: 31.5s	remaining: 10.2s
755:	learn: 6.2334668	total: 31.5s	remaining: 10.2s
756:	learn: 6.2275292	total: 31.6s	remaining: 10.1s
757:	learn: 6.2131172	total: 31.6s	remaining: 10.1s
758:	learn: 6.2059730	total: 31.6s	remaining: 10s
759:	learn: 6.1997420	total: 31.7s	remaining: 10s
760:	learn: 6.1928340	total: 31.7s	remaining: 9.95s
761:	learn: 6.1909403	total: 31.8s	remaining: 9.93s
762:	learn: 6.1853220	total: 31.8s	remaining: 9.88s
763:	learn: 6.1798551	total: 31.9s	remaining: 9.85s
764:	learn: 6.1751404	total: 31.9s	remaining: 9.8s
765:	learn: 6.1708383	total: 31.9s	remaining: 9.74s
766:	learn: 6.1632574	total: 32s	remaining: 9.72s
767:	learn: 6.1580472	total: 32s	remaining: 9.66s
768:	learn: 6.1536847	total: 32.1s	remaining: 9.64s
769:	learn: 6.1532533	total: 32.1s	remaining: 9.59s
770:	learn: 6.1471793	total: 32.2s	remaining: 9.56s
771:	learn: 6.1433692	total: 32.2s	remaining: 9.51s
772:	learn: 6.1394240	total: 32.2s	remaining: 9.45s
773:	learn: 6.1326728	total: 32.3s	remaining: 9.43s
774:	learn: 6.1300689	total: 32.3s	remaining: 9.37s
775:	learn: 6.1245109	total: 32.4s	remaining: 9.35s
776:	learn: 6.1161679	total: 32.4s	remaining: 9.29s
777:	learn: 6.1114711	total: 32.5s	remaining: 9.27s
778:	learn: 6.1031263	total: 32.5s	remaining: 9.21s
779:	learn: 6.0946788	total: 32.5s	remaining: 9.16s
780:	learn: 6.0837153	total: 32.6s	remaining: 9.13s
781:	learn: 6.0775372	total: 32.6s	remaining: 9.08s
782:	learn: 6.0711767	total: 32.7s	remaining: 9.05s
783:	learn: 6.0651317	total: 32.7s	remaining: 9s
784:	learn: 6.0600072	total: 32.7s	remaining: 8.95s
785:	learn: 6.0542492	total: 32.8s	remaining: 8.92s
786:	learn: 6.0472997	total: 32.8s	remaining: 8.87s
787:	learn: 6.0397592	total: 32.9s	remaining: 8.84s
788:	learn: 6.0341880	total: 32.9s	remaining: 8.79s
789:	learn: 6.0280158	total: 33s	remaining: 8.76s
790:	learn: 6.0221591	total: 33s	remaining: 8.71s
791:	learn: 6.0079106	total: 33.1s	remaining: 8.68s
792:	learn: 6.0008011	total: 33.1s	remaining: 8.63s
793:	learn: 5.9941307	total: 33.2s	remaining: 8.6s
794:	learn: 5.9879254	total: 33.2s	remaining: 8.55s
795:	learn: 5.9844303	total: 33.2s	remaining: 8.5s
796:	learn: 5.9794789	total: 33.3s	remaining: 8.47s
797:	learn: 5.9734382	total: 33.3s	remaining: 8.42s
798:	learn: 5.9697291	total: 33.4s	remaining: 8.39s
799:	learn: 5.9693060	total: 33.4s	remaining: 8.34s
800:	learn: 5.9618576	total: 33.5s	remaining: 8.31s
801:	learn: 5.9564835	total: 33.5s	remaining: 8.26s
802:	learn: 5.9484231	total: 33.5s	remaining: 8.21s
803:	learn: 5.9412579	total: 33.6s	remaining: 8.18s
804:	learn: 5.9367029	total: 33.6s	remaining: 8.13s
805:	learn: 5.9361998	total: 33.7s	remaining: 8.1s
806:	learn: 5.9328669	total: 33.7s	remaining: 8.05s
807:	learn: 5.9232522	total: 33.8s	remaining: 8.02s
808:	learn: 5.9218558	total: 33.8s	remaining: 7.97s
809:	learn: 5.9128931	total: 33.8s	remaining: 7.92s

810:	learn: 5.9102889	total: 33.9s	remaining: 7.89s
811:	learn: 5.9096496	total: 33.9s	remaining: 7.84s
812:	learn: 5.9066809	total: 34s	remaining: 7.81s
813:	learn: 5.9000877	total: 34s	remaining: 7.76s
814:	learn: 5.8973150	total: 34.1s	remaining: 7.73s
815:	learn: 5.8937149	total: 34.1s	remaining: 7.68s
816:	learn: 5.8873616	total: 34.1s	remaining: 7.63s
817:	learn: 5.8836232	total: 34.2s	remaining: 7.6s
818:	learn: 5.8832169	total: 34.2s	remaining: 7.55s
819:	learn: 5.8764115	total: 34.3s	remaining: 7.52s
820:	learn: 5.8753591	total: 34.3s	remaining: 7.47s
821:	learn: 5.8684165	total: 34.3s	remaining: 7.44s
822:	learn: 5.8631210	total: 34.4s	remaining: 7.39s
823:	learn: 5.8604123	total: 34.4s	remaining: 7.34s
824:	learn: 5.8596097	total: 34.4s	remaining: 7.31s
825:	learn: 5.8587236	total: 34.5s	remaining: 7.26s
826:	learn: 5.8576861	total: 34.5s	remaining: 7.23s
827:	learn: 5.8489562	total: 34.6s	remaining: 7.18s
828:	learn: 5.8386375	total: 34.6s	remaining: 7.14s
829:	learn: 5.8353462	total: 34.6s	remaining: 7.1s
830:	learn: 5.8329209	total: 34.7s	remaining: 7.05s
831:	learn: 5.8287904	total: 34.7s	remaining: 7.02s
832:	learn: 5.8270041	total: 34.8s	remaining: 6.97s
833:	learn: 5.8265551	total: 34.8s	remaining: 6.93s
834:	learn: 5.8176518	total: 34.8s	remaining: 6.89s
835:	learn: 5.8101587	total: 34.9s	remaining: 6.84s
836:	learn: 5.8036212	total: 34.9s	remaining: 6.8s
837:	learn: 5.7962795	total: 34.9s	remaining: 6.76s
838:	learn: 5.7954024	total: 35s	remaining: 6.72s
839:	learn: 5.7887289	total: 35s	remaining: 6.67s
840:	learn: 5.7851989	total: 35.1s	remaining: 6.64s
841:	learn: 5.7802631	total: 35.1s	remaining: 6.59s
842:	learn: 5.7756097	total: 35.2s	remaining: 6.56s
843:	learn: 5.7708692	total: 35.2s	remaining: 6.51s
844:	learn: 5.7675739	total: 35.2s	remaining: 6.46s
845:	learn: 5.7664823	total: 35.3s	remaining: 6.43s
846:	learn: 5.7575845	total: 35.3s	remaining: 6.38s
847:	learn: 5.7516540	total: 35.4s	remaining: 6.35s
848:	learn: 5.7506486	total: 35.4s	remaining: 6.3s
849:	learn: 5.7429880	total: 35.4s	remaining: 6.25s
850:	learn: 5.7426098	total: 35.5s	remaining: 6.22s
851:	learn: 5.7375721	total: 35.5s	remaining: 6.17s
852:	learn: 5.7316770	total: 35.6s	remaining: 6.14s
853:	learn: 5.7308560	total: 35.6s	remaining: 6.09s
854:	learn: 5.7263680	total: 35.6s	remaining: 6.04s
855:	learn: 5.7221582	total: 35.7s	remaining: 6.01s
856:	learn: 5.7169425	total: 35.7s	remaining: 5.96s
857:	learn: 5.7134360	total: 35.8s	remaining: 5.93s
858:	learn: 5.7023615	total: 35.8s	remaining: 5.88s
859:	learn: 5.6977505	total: 35.8s	remaining: 5.83s
860:	learn: 5.6959485	total: 35.9s	remaining: 5.8s
861:	learn: 5.6954436	total: 35.9s	remaining: 5.75s
862:	learn: 5.6900255	total: 36s	remaining: 5.72s
863:	learn: 5.6862005	total: 36s	remaining: 5.67s
864:	learn: 5.6804570	total: 36.1s	remaining: 5.64s
865:	learn: 5.6756496	total: 36.1s	remaining: 5.59s
866:	learn: 5.6686437	total: 36.1s	remaining: 5.54s
867:	learn: 5.6682281	total: 36.2s	remaining: 5.51s
868:	learn: 5.6631992	total: 36.2s	remaining: 5.46s
869:	learn: 5.6566367	total: 36.3s	remaining: 5.43s
870:	learn: 5.6509898	total: 36.3s	remaining: 5.38s

871:	learn: 5.6497986	total: 36.3s	remaining: 5.33s
872:	learn: 5.6432446	total: 36.4s	remaining: 5.3s
873:	learn: 5.6395905	total: 36.4s	remaining: 5.25s
874:	learn: 5.6381431	total: 36.5s	remaining: 5.22s
875:	learn: 5.6331655	total: 36.5s	remaining: 5.17s
876:	learn: 5.6269927	total: 36.6s	remaining: 5.13s
877:	learn: 5.6265699	total: 36.6s	remaining: 5.09s
878:	learn: 5.6262932	total: 36.6s	remaining: 5.04s
879:	learn: 5.6208301	total: 36.7s	remaining: 5.01s
880:	learn: 5.6146223	total: 36.7s	remaining: 4.96s
881:	learn: 5.6108718	total: 36.7s	remaining: 4.91s
882:	learn: 5.6091656	total: 36.8s	remaining: 4.88s
883:	learn: 5.6027406	total: 36.8s	remaining: 4.83s
884:	learn: 5.5963627	total: 36.9s	remaining: 4.8s
885:	learn: 5.5903057	total: 36.9s	remaining: 4.75s
886:	learn: 5.5825036	total: 37s	remaining: 4.71s
887:	learn: 5.5758450	total: 37s	remaining: 4.67s
888:	learn: 5.5688535	total: 37s	remaining: 4.62s
889:	learn: 5.5682613	total: 37.1s	remaining: 4.59s
890:	learn: 5.5641794	total: 37.1s	remaining: 4.54s
891:	learn: 5.5601059	total: 37.2s	remaining: 4.5s
892:	learn: 5.5573012	total: 37.2s	remaining: 4.46s
893:	learn: 5.5569793	total: 37.2s	remaining: 4.41s
894:	learn: 5.5526939	total: 37.3s	remaining: 4.38s
895:	learn: 5.5465883	total: 37.3s	remaining: 4.33s
896:	learn: 5.5398851	total: 37.4s	remaining: 4.29s
897:	learn: 5.5332792	total: 37.4s	remaining: 4.25s
898:	learn: 5.5263926	total: 37.4s	remaining: 4.2s
899:	learn: 5.5224737	total: 37.5s	remaining: 4.17s
900:	learn: 5.5176271	total: 37.5s	remaining: 4.12s
901:	learn: 5.5132194	total: 37.6s	remaining: 4.08s
902:	learn: 5.5117133	total: 37.6s	remaining: 4.04s
903:	learn: 5.5084314	total: 37.6s	remaining: 3.99s
904:	learn: 5.5060355	total: 37.7s	remaining: 3.96s
905:	learn: 5.5030414	total: 37.7s	remaining: 3.91s
906:	learn: 5.4955554	total: 37.8s	remaining: 3.88s
907:	learn: 5.4947437	total: 37.8s	remaining: 3.83s
908:	learn: 5.4922702	total: 37.9s	remaining: 3.79s
909:	learn: 5.4894588	total: 37.9s	remaining: 3.75s
910:	learn: 5.4879829	total: 38s	remaining: 3.71s
911:	learn: 5.4835611	total: 38s	remaining: 3.67s
912:	learn: 5.4801956	total: 38s	remaining: 3.62s
913:	learn: 5.4735966	total: 38.1s	remaining: 3.58s
914:	learn: 5.4689997	total: 38.1s	remaining: 3.54s
915:	learn: 5.4614605	total: 38.2s	remaining: 3.5s
916:	learn: 5.4603017	total: 38.2s	remaining: 3.46s
917:	learn: 5.4566247	total: 38.2s	remaining: 3.41s
918:	learn: 5.4486881	total: 38.3s	remaining: 3.37s
919:	learn: 5.4473098	total: 38.3s	remaining: 3.33s
920:	learn: 5.4436716	total: 38.4s	remaining: 3.29s
921:	learn: 5.4397216	total: 38.4s	remaining: 3.25s
922:	learn: 5.4345240	total: 38.4s	remaining: 3.2s
923:	learn: 5.4274074	total: 38.5s	remaining: 3.17s
924:	learn: 5.4237911	total: 38.5s	remaining: 3.12s
925:	learn: 5.4206063	total: 38.6s	remaining: 3.08s
926:	learn: 5.4130563	total: 38.6s	remaining: 3.04s
927:	learn: 5.4083805	total: 38.6s	remaining: 2.99s
928:	learn: 5.4046190	total: 38.7s	remaining: 2.96s
929:	learn: 5.3959245	total: 38.7s	remaining: 2.91s
930:	learn: 5.3910497	total: 38.8s	remaining: 2.87s
931:	learn: 5.3858648	total: 38.8s	remaining: 2.83s

932:	learn: 5.3814567	total: 38.9s	remaining: 2.79s
933:	learn: 5.3735510	total: 38.9s	remaining: 2.75s
934:	learn: 5.3728749	total: 38.9s	remaining: 2.7s
935:	learn: 5.3700697	total: 39s	remaining: 2.67s
936:	learn: 5.3696053	total: 39s	remaining: 2.62s
937:	learn: 5.3628298	total: 39.1s	remaining: 2.58s
938:	learn: 5.3562903	total: 39.1s	remaining: 2.54s
939:	learn: 5.3530412	total: 39.1s	remaining: 2.49s
940:	learn: 5.3475948	total: 39.2s	remaining: 2.46s
941:	learn: 5.3429583	total: 39.2s	remaining: 2.41s
942:	learn: 5.3424822	total: 39.2s	remaining: 2.37s
943:	learn: 5.3380393	total: 39.3s	remaining: 2.33s
944:	learn: 5.3333848	total: 39.3s	remaining: 2.29s
945:	learn: 5.3330155	total: 39.4s	remaining: 2.25s
946:	learn: 5.3282387	total: 39.4s	remaining: 2.2s
947:	learn: 5.3219499	total: 39.5s	remaining: 2.16s
948:	learn: 5.3172645	total: 39.5s	remaining: 2.12s
949:	learn: 5.3119895	total: 39.5s	remaining: 2.08s
950:	learn: 5.3116318	total: 39.6s	remaining: 2.04s
951:	learn: 5.3104288	total: 39.6s	remaining: 2s
952:	learn: 5.3034452	total: 39.6s	remaining: 1.95s
953:	learn: 5.2992953	total: 39.7s	remaining: 1.91s
954:	learn: 5.2968972	total: 39.7s	remaining: 1.87s
955:	learn: 5.2959847	total: 39.8s	remaining: 1.83s
956:	learn: 5.2898167	total: 39.8s	remaining: 1.79s
957:	learn: 5.2889469	total: 39.8s	remaining: 1.74s
958:	learn: 5.2884852	total: 39.9s	remaining: 1.7s
959:	learn: 5.2858403	total: 39.9s	remaining: 1.66s
960:	learn: 5.2785012	total: 40s	remaining: 1.62s
961:	learn: 5.2735220	total: 40s	remaining: 1.58s
962:	learn: 5.2730505	total: 40.1s	remaining: 1.54s
963:	learn: 5.2706145	total: 40.1s	remaining: 1.5s
964:	learn: 5.2637109	total: 40.1s	remaining: 1.45s
965:	learn: 5.2593159	total: 40.2s	remaining: 1.41s
966:	learn: 5.2572548	total: 40.2s	remaining: 1.37s
967:	learn: 5.2529296	total: 40.3s	remaining: 1.33s
968:	learn: 5.2479142	total: 40.3s	remaining: 1.29s
969:	learn: 5.2448933	total: 40.3s	remaining: 1.25s
970:	learn: 5.2410762	total: 40.4s	remaining: 1.21s
971:	learn: 5.2326319	total: 40.4s	remaining: 1.16s
972:	learn: 5.2321210	total: 40.5s	remaining: 1.12s
973:	learn: 5.2298776	total: 40.5s	remaining: 1.08s
974:	learn: 5.2289305	total: 40.6s	remaining: 1.04s
975:	learn: 5.2237852	total: 40.6s	remaining: 997ms
976:	learn: 5.2192228	total: 40.6s	remaining: 955ms
977:	learn: 5.2166170	total: 40.7s	remaining: 915ms
978:	learn: 5.2137404	total: 40.7s	remaining: 872ms
979:	learn: 5.2106056	total: 40.8s	remaining: 832ms
980:	learn: 5.2061359	total: 40.8s	remaining: 789ms
981:	learn: 5.2034859	total: 40.8s	remaining: 747ms
982:	learn: 5.1976973	total: 40.9s	remaining: 707ms
983:	learn: 5.1973380	total: 40.9s	remaining: 664ms
984:	learn: 5.1897103	total: 41s	remaining: 624ms
985:	learn: 5.1852481	total: 41s	remaining: 582ms
986:	learn: 5.1788334	total: 41s	remaining: 541ms
987:	learn: 5.1723495	total: 41.1s	remaining: 499ms
988:	learn: 5.1682678	total: 41.1s	remaining: 457ms
989:	learn: 5.1625630	total: 41.1s	remaining: 416ms
990:	learn: 5.1600682	total: 41.2s	remaining: 374ms
991:	learn: 5.1561190	total: 41.2s	remaining: 333ms
992:	learn: 5.1510472	total: 41.3s	remaining: 291ms

```

993:    learn: 5.1480913      total: 41.3s    remaining: 249ms
994:    learn: 5.1474069      total: 41.3s    remaining: 208ms
995:    learn: 5.1397354      total: 41.4s    remaining: 166ms
996:    learn: 5.1376252      total: 41.4s    remaining: 125ms
997:    learn: 5.1329815      total: 41.5s    remaining: 83.1ms
998:    learn: 5.1271431      total: 41.5s    remaining: 41.6ms
999:    learn: 5.1228908      total: 41.5s    remaining: 0us
BEST PARAMETERS: {'depth': 8, 'learning_rate': 0.03}

```

In [226]:

```
# обучим модель на лучших гиперпараметрах
```

```

model_CB = CatBoostRegressor(depth= 8, learning_rate= 0.03)#, depth=10, learning_rate=
0.1, l2_leaf_reg=1)
model_CB.fit(features_train, target_train, verbose=False)
predict_CB = model_CB.predict(features_train)
mae_CB = mean_absolute_error(target_train, predict_CB)
mae_CB

```

Out[226]:

4.042862790860131

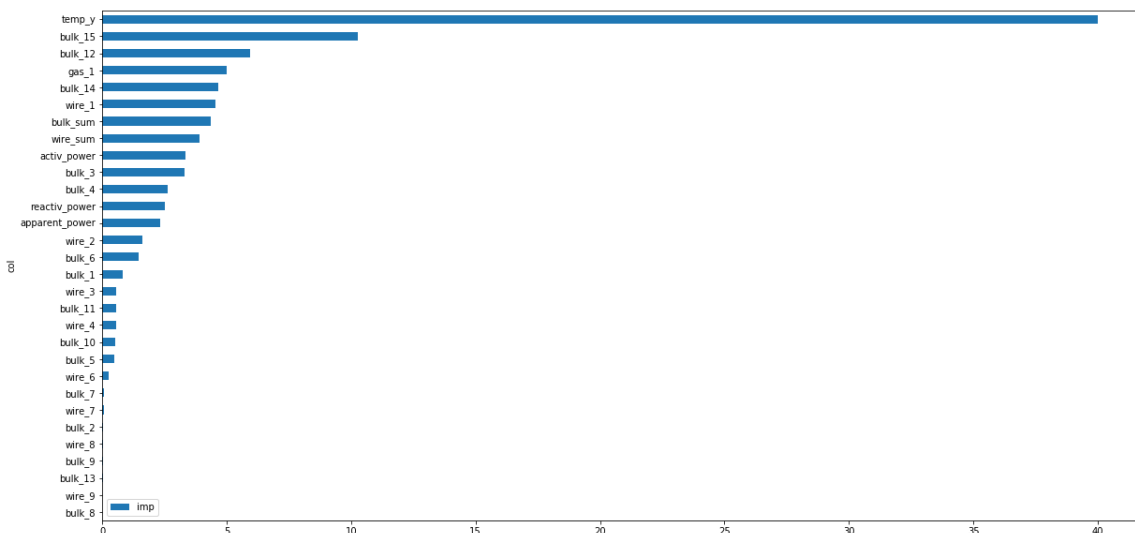
In [227]:

```
#смотрим график Feature Importance
```

```

feature_imp = pd.DataFrame({'imp': model_CB.feature_importances_, 'col': features.columns})
feature_imp = feature_imp.sort_values(['imp', 'col'], ascending=[True, False]).iloc[-30:]
_ = feature_imp.plot(kind='barh', x='col', y='imp', figsize=(20, 10))
plt.savefig('catboost_feature_importance.png')

```



In [214]:

```
#подберем гиперпараметры для модели LGBM

hyper_space = {'n_estimators': [300, 600, 1000, 1500, 2500],
               'max_depth': [4, 9, 15],
               'learning_rate': [0.1, 0.3]}
#'num_leaves': [15, 63, 127]
#'subsample': [0.6, 0.7, 0.8, 1.0],
#'colsample_bytree': [0.6, 0.7, 0.8, 1.0]}

est = LGBMRegressor(boosting_type='gbdt', random_state=12345)

gs = GridSearchCV(est, hyper_space, scoring='neg_mean_absolute_error', cv=2, verbose=1)
gs_results = gs.fit(features_train, target_train)
print("BEST PARAMETERS: " + str(gs_results.best_params_))
```

Fitting 2 folds for each of 30 candidates, totalling 60 fits

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

[Parallel(n_jobs=1)]: Done 60 out of 60 | elapsed: 1.6min finished

BEST PARAMETERS: {'learning_rate': 0.1, 'max_depth': 4, 'n_estimators': 300}

In [228]:

```
# обучим модель на лучших гиперпараметрах

model_LGBM = LGBMRegressor( depth = 4, learning_rate = 0.1, n_estimators = 300)
model_LGBM.fit(features_train, target_train)
predict_LGBM = model_LGBM.predict(features_train)
mae_LGBM = mean_absolute_error(target_train, predict_LGBM)
mae_LGBM

#https://www.kaggle.com/jens0306/easy-prediction-using-lightgbm-model
```

Out[228]:

2.005471678899581

In [216]:

```
#найдем лучшие гиперпараметры для модели случайного леса при помощи grid search

model_RF = RandomForestRegressor()

grid_RF = {'max_depth': [10, 40, 100, 300],
           'n_estimators': [100, 200, 300, 500]}

rf_random = RandomizedSearchCV(estimator = model_RF, param_distributions = grid_RF,
                                scoring='neg_mean_absolute_error', cv = 3)

#https://towardsdatascience.com/hyperparameter-tuning-the-random-forest-in-python-using-scikit-learn-28d2aa77dd74
```

In [217]:

```
RF_random_results = rf_random.fit(features_train, target_train)
print("BEST PARAMETERS: " + str(RF_random_results.best_params_))
```

BEST PARAMETERS: {'n_estimators': 500, 'max_depth': 100}

In [229]:

#обучим модель случайного леса с лучшими гиперпараметрами

```
model_RF = RandomForestRegressor(n_estimators= 500, max_depth= 100)
model_RF.fit(features_train,target_train)
predict_RF=model_RF.predict(features_train)
mae_RF = mean_absolute_error(target_train, predict_RF)
mae_RF
```

Out[229]:

3.340005871990607

In [235]:

#Feature Importance для случайного леса

```
feature_imp = pd.DataFrame({'imp': model_RF.feature_importances_, 'col': features.columns})
feature_imp = feature_imp.sort_values(['imp', 'col'], ascending=[True, False]).iloc[-30:]
_ = feature_imp.plot(kind='barh', x='col', y='imp', figsize=(20, 10))
plt.savefig('rf_feature_importance.png')
```



In [219]:

```
#обучим модель xgboost с лучшими гиперпараметрами
```

```
from xgboost import XGBRegressor
```

```
model_XGB = XGBRegressor()
```

```
grid_XGB = {'max_depth': [1, 30, 50, 150],  
            'n_estimators': [50, 300, 500, 1000, 1500]}
```

```
#base_score=0.5, booster='gbtree', colsample_bylevel=1,  
#     colsample_bytree=1, gamma=0, importance_type='gain',  
#     learning_rate=0.1, max_delta_step=0, max_depth=3,  
#     min_child_weight=1, missing=None, n_estimators=100, n_jobs=1,  
#     nthread=None, objective='reg:linear', random_state=0, reg_alpha=0,  
#     reg_lambda=1, scale_pos_weight=1, seed=None, silent=True,  
#     subsample=1)
```

```
XGB_random = RandomizedSearchCV(estimator = model_XGB, param_distributions = grid_XGB,  
scoring='neg_mean_absolute_error', cv = 3, verbose=0, n_jobs = -1)
```

```
XGB_random_results = XGB_random.fit(features_train, target_train)
```

```
print("BEST PARAMETERS: " + str(XGB_random_results.best_params_))
```

<https://jupyterhub.praktikum-services.ru/user/user-0-967930702/nbconvert/html/4424bb51-f5d1-45fe-96e5-8fc2d428d96b.ipynb?download=f...> 264/267

near is now deprecated in favor of reg:squarederror.
BEST PARAMETERS: {'n_estimators': 500, 'max_depth': 150}

In [236]:

```
model_XGB = XGBRegressor(n_estimators= 500, max_depth= 150)
model_XGB.fit(features_train,target_train)
predict_XGB=model_XGB.predict(features_train)
mae_XGB = mean_absolute_error(target_train, predict_XGB)
mae_XGB
```

[12:51:36] WARNING: /workspace/src/objective/regression_obj.cu:152: reg:li
near is now deprecated in favor of reg:squarederror.

Out[236]:

0.0004150247265854375

Проверка моделей на тестовой выборке

In [230]:

```
%%time

predict_LR = model_LR.predict(features_test)
mae_LR = mean_absolute_error(target_test, predict_LR)
mae_LR
```

CPU times: user 5.37 ms, sys: 16.9 ms, total: 22.3 ms
Wall time: 5.54 ms

Out[230]:

9.246985233391884

In [231]:

```
%%time

predict_CB = model_CB.predict(features_test)
mae_CB = mean_absolute_error(target_test, predict_CB)
mae_CB
```

CPU times: user 15.6 ms, sys: 4.59 ms, total: 20.1 ms
Wall time: 13.3 ms

Out[231]:

8.373413091354486

In [232]:

```
%%time

predict_LGBM = model_LGBM.predict(features_test)
mae_LGBM = mean_absolute_error(target_test, predict_LGBM)
mae_LGBM
```

CPU times: user 49.1 ms, sys: 117 µs, total: 49.3 ms

Wall time: 46.8 ms

Out[232]:

9.01083456204969

In [233]:

```
%%time

predict_RF = model_RF.predict(features_test)
mae_RF = mean_absolute_error(target_test, predict_RF)
mae_RF
```

CPU times: user 124 ms, sys: 0 ns, total: 124 ms

Wall time: 123 ms

Out[233]:

8.321076712328768

In [237]:

```
%%time

predict_XGB = model_XGB.predict(features_test)
mae_XGB = mean_absolute_error(target_test, predict_XGB)
mae_XGB
```

CPU times: user 60.2 ms, sys: 3.94 ms, total: 64.1 ms

Wall time: 62.5 ms

Out[237]:

8.762504682148972

Вывод:

Необходимые библиотеки добавлены, общая информация по датафрейму изучена.

Была проведена предобработка данных. Изменены типы данных, удалены выбросы.

Данные объединены в один датафрейм для удобства дальнейшей работы.

Без масштабирования значение MAE меньше, поэтому было решено в данном проекте масштабирование не использовать.

Были добавлены самостоятельно следующие признаки: суммарные данные по проволоке и сыпучим материалам, первый замер температуры.

Проведен анализ корреляции признаков.

Все признаки минимально коррелируют с целевым признаком, кроме самой первой температуры, суммарного объема проволоки, объема первого вида проволоки.

Модель Catboost с гиперпараметрами `depth= 8`, `learning_rate= 0.03` показала наилучшие результаты.