

Определение стоимости автомобилей

Сервис по продаже автомобилей с пробегом «Не бит, не крашен» разрабатывает приложение для привлечения новых клиентов. В нём можно быстро узнать рыночную стоимость своего автомобиля. В вашем распоряжении исторические данные: технические характеристики, комплектации и цены автомобилей. Вам нужно построить модель для определения стоимости.

Заказчику важны:

- качество предсказания;
- скорость предсказания;
- время обучения.

Подготовка данных

In [1]:

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import numpy as np
import lightgbm as lgbm
import timeit

from sklearn.preprocessing import OneHotEncoder
from sklearn.model_selection import train_test_split
from sklearn.metrics import mean_squared_error
from sklearn.metrics import make_scorer
from sklearn.linear_model import LinearRegression
from sklearn.tree import DecisionTreeRegressor
from sklearn.ensemble import RandomForestRegressor
from sklearn.model_selection import RandomizedSearchCV
from sklearn.model_selection import GridSearchCV

from scipy.stats import randint as sp_randint
from scipy.stats import uniform as sp_uniform

from catboost import CatBoostRegressor, Pool

from lightgbm import LGBMRegressor
```

Изучение данных

In [2]:

```
df = pd.read_csv('/datasets/autos.csv')
```

In [3]:

```
df.head()
```

Out[3]:

	DateCrawled	Price	VehicleType	RegistrationYear	Gearbox	Power	Model	Kilometer	RegistrationMonth	FuelType	Brand	NotRepaired	Dat
0	2016-03-24 11:52:17	480	Nan	1993	manual	0	golf	150000	0	petrol	volkswagen	Nan	2016-03-24 11:52:17
1	2016-03-24 10:58:45	18300	coupe	2011	manual	190	Nan	125000	5	gasoline	audi	yes	2016-03-24 10:58:45
2	2016-03-14 12:52:21	9800	suv	2004	auto	163	grand	125000	8	gasoline	jeep	Nan	2016-03-14 12:52:21
3	2016-03-17 16:54:04	1500	small	2001	manual	75	golf	150000	6	petrol	volkswagen	no	2016-03-17 16:54:04
4	2016-03-31 17:25:20	3600	small	2008	manual	69	fabia	90000	7	gasoline	skoda	no	2016-03-31 17:25:20

In [4]:

```
df.info()
```

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

RangeIndex: 354369 entries, 0 to 354368

Data columns (total 16 columns):

#	Column	Non-Null Count	Dtype
0	DateCrawled	354369	non-null object
1	Price	354369	non-null int64
2	VehicleType	316879	non-null object
3	RegistrationYear	354369	non-null int64
4	Gearbox	334536	non-null object
5	Power	354369	non-null int64
6	Model	334664	non-null object
7	Kilometer	354369	non-null int64
8	RegistrationMonth	354369	non-null int64
9	FuelType	321474	non-null object
10	Brand	354369	non-null object
11	NotRepaired	283215	non-null object
12	DateCreated	354369	non-null object
13	NumberOfPictures	354369	non-null int64
14	PostalCode	354369	non-null int64
15	LastSeen	354369	non-null object

dtypes: int64(7), object(9)

memory usage: 43.3+ MB

In [5]:

```
df.describe()
```

Out[5]:

	Price	RegistrationYear	Power	Kilometer	RegistrationMonth	NumberOfPictures	PostalCode
count	354369.000000	354369.000000	354369.000000	354369.000000	354369.000000	354369.0	354369.000000
mean	4416.656776	2004.234448	110.094337	128211.172535	5.714645	0.0	50508.689087
std	4514.158514	90.227958	189.850405	37905.341530	3.726421	0.0	25783.096248
min	0.000000	1000.000000	0.000000	5000.000000	0.000000	0.0	1067.000000
25%	1050.000000	1999.000000	69.000000	125000.000000	3.000000	0.0	30165.000000
50%	2700.000000	2003.000000	105.000000	150000.000000	6.000000	0.0	49413.000000
75%	6400.000000	2008.000000	143.000000	150000.000000	9.000000	0.0	71083.000000
max	20000.000000	9999.000000	20000.000000	150000.000000	12.000000	0.0	99998.000000

In [6]:

```
df.isna().sum()
```

Out[6]:

DateCrawled	0
Price	0
RegistrationYear	0
Power	0
Kilometer	0
RegistrationMonth	0
NumberOfPictures	0
PostalCode	0

```
Price          0
VehicleType    37490
RegistrationYear 0
Gearbox        19833
Power          0
Model          19705
Kilometer      0
RegistrationMonth 0
FuelType        32895
Brand          0
NotRepaired    71154
DateCreated    0
NumberOfPictures 0
PostalCode      0
LastSeen        0
dtype: int64
```

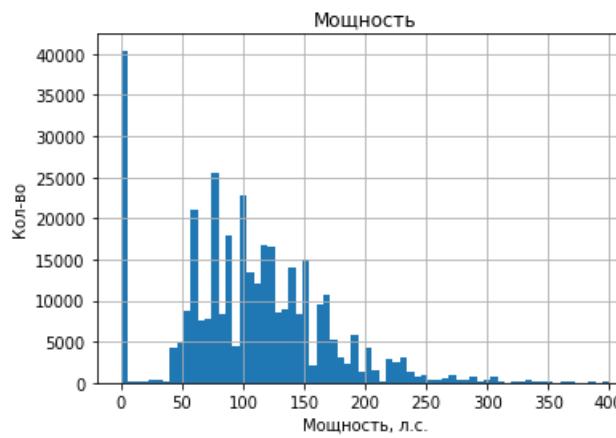
Посмотрим на выбросы:

In [7]:

```
df['Power'].hist(bins=70, range=(0, 400))
plt.title('Мощность')
plt.xlabel('Мощность, л.с.')
plt.ylabel('Кол-во')
```

Out[7]:

```
Text(0, 0.5, 'Кол-во')
```

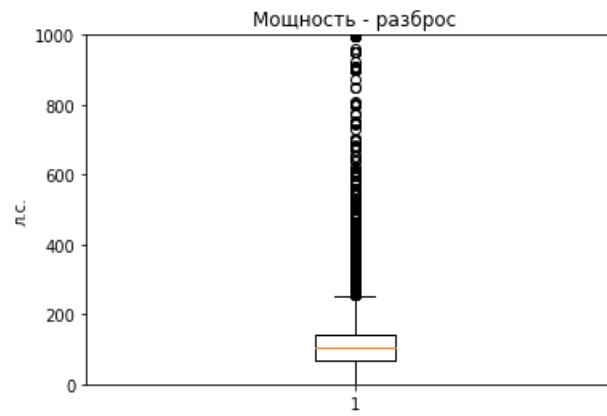


In [8]:

```
plt.boxplot(df['Power'])
plt.ylim(0, 1000)
plt.title('Мощность - разброс')
plt.ylabel('л.с.')
```

Out[8]:

```
Text(0, 0.5, 'л.с.')
```



- Виден всплеск около нуля, обучению модели этот всплеск никак не поможет
- Максимальная мощность больше 2012 л.с. не существует, основано на самом мощном автомобиле в мире Aspark Owl

- максимальная мощность больше 2012 л.с. не существует, основываясь на самом мощном автомобиле в мире Aspark Owl.
- 50 процентов всех данных лежит в диапазоне от 50-150 л.с.

In [9]:

```
fig, axes = plt.subplots(ncols=2, figsize=(20, 5))
```

```
sns.distplot(df['Price'], bins=100, ax=axes[0])
axes[0].set_title('Price - Distplot')
```

```
sns.boxplot(df['Price'], ax=axes[1])
axes[1].set_title('Price - Boxplot')
```

/opt/conda/lib/python3.9/site-packages/seaborn/distributions.py:2557: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

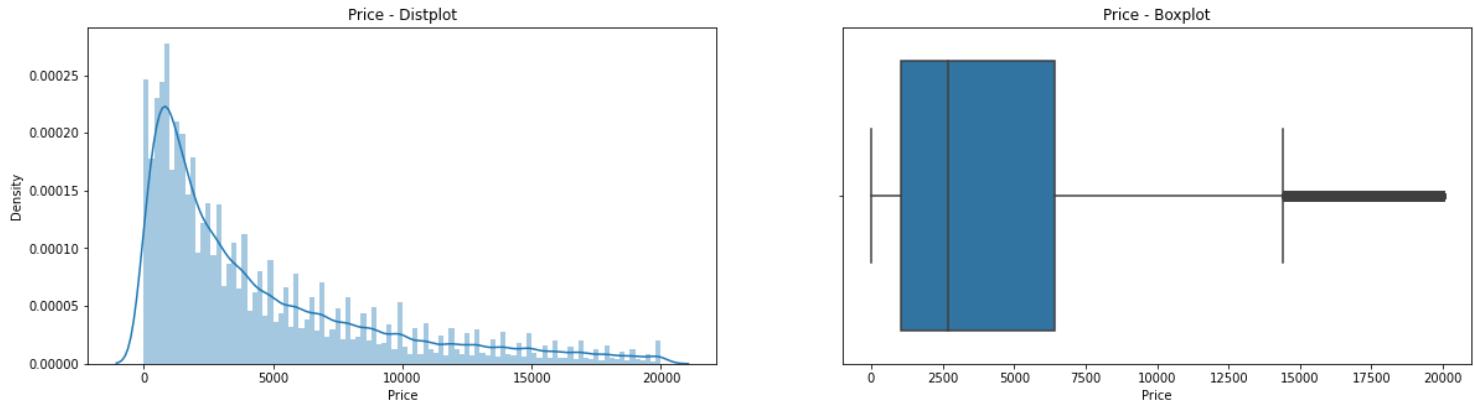
```
warnings.warn(msg, FutureWarning)
```

/opt/conda/lib/python3.9/site-packages/seaborn/_decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

```
warnings.warn(
```

Out[9]:

Text(0.5, 1.0, 'Price - Boxplot')



- Здесь все выглядит адекватно, поэтому оставим высокие значения.

Выбросы

In [10]:

```
print('Доля выброса от всех данных:', df.query('Power == 0').shape[0] / df['Power'].shape[0])
```

Доля выброса от всех данных: 0.11351162206626426

11 процентов это довольно серьезная часть от всех данных, но машина стоимостью 0 евро тоже кажется нереалистичным. Хотя можно решить, что машина в настолько плохом состоянии, что её отдают за бесценок. Попробуем обучить модель на данных без выбросов.

In [11]:

```
df = df.query('30 <= Power < 2012') # удаление выбросов
```

Пропуски

Сперва посмотрим, от какого километража входят 75 процентов значений.

In [12]:

```
plt.boxplot(df[df['NotRepaired'] == 'no']['Kilometer'])
plt.title('Автомобили, подвергшиеся ремонту')
plt.ylabel('кол-во')
```

Out[12]:

Out[12]:

Text(0, 0.5, 'кол-во')



От ~35000 км машина уже была починена. Поэтому пропуски заполним `no` при значениях километража больше 40000 км.

In [13]:

```
df.loc[df['NotRepaired'].isna(), 'NotRepaired'] = (df.loc[df['NotRepaired'].isna()]['Kilometer']
    .apply(lambda x: 'no' if x > 40000 else 'yes'))  
print(df['NotRepaired'].isna().sum())
print(df['NotRepaired'].unique())
```

0

['yes' 'no']

Заполним пропуски в колонке `VehicleType`

In [14]:

```
df['VehicleType'] = df['VehicleType'].fillna(df.groupby('Model', dropna=False)['VehicleType'] # Группировка по моделям
    .transform(lambda x: x.mode().iat[0])) # Подстановка названий индексов самых
    # популярных типов кузова
    # соотвествующей модели  
df['VehicleType'].isna().sum()
```

Out[14]:

0

Заполним пропуски в колонке `FuelType` и `Model`

In [15]:

```
df['FuelType'] = df['FuelType'].fillna(df.groupby(['VehicleType'], dropna=False)['FuelType']
    .transform(lambda x: x.mode(dropna=False).iat[0]))  
df['Model'] = df['Model'].fillna(df.groupby(['VehicleType', 'Brand'], dropna=False)['FuelType']
    .transform(lambda x: x.mode(dropna=False).iat[0]))  
print(df['FuelType'].isna().sum())
print(df['Model'].isna().sum())
```

0

0

In [16]:

```
df['Gearbox'] = df['Gearbox'].fillna(df.groupby(['VehicleType'], dropna=False)['FuelType']
    .transform(lambda x: x.mode(dropna=False).iat[0]))  
print(df['FuelType'].isna().sum())
print(df['Model'].isna().sum())
```

0
0

In [17]:

```
df['DateCreated'] = pd.to_datetime(df['DateCreated'], format="%Y-%m-%d %H:%M:%S")
```

In [18]:

```
df['DateCreated'].describe()
```

/tmp/ipykernel_178/1446076792.py:1: FutureWarning: Treating datetime data as categorical rather than numeric in `describe` is deprecated and will be removed in a future version of pandas. Specify `datetime_is_numeric=True` to silence this warning and adopt the future behavior now.

```
df['DateCreated'].describe()
```

Out[18]:

```
count      313120
unique     107
top       2016-04-03 00:00:00
freq      12317
first    2015-03-20 00:00:00
last     2016-04-07 00:00:00
Name: DateCreated, dtype: object
```

Определили, что верхняя планка - 2016 год.

In [19]:

```
df = df.drop(['DateCrawled', 'LastSeen', 'DateCreated', 'PostalCode', 'NumberOfPictures'], axis=1)
```

In [20]:

```
#КОД РЕВЬЮОРА
```

```
df.describe()
```

Out[20]:

	Price	RegistrationYear	Power	Kilometer	RegistrationMonth
count	313120.000000	313120.000000	313120.000000	313120.000000	313120.000000
mean	4707.279688	2003.509897	121.406400	128691.667731	5.936769
std	4592.241607	34.983894	64.491587	36611.015183	3.614948
min	0.000000	1000.000000	30.000000	5000.000000	0.000000
25%	1250.000000	1999.000000	75.000000	125000.000000	3.000000
50%	2999.000000	2003.000000	110.000000	150000.000000	6.000000
75%	6899.000000	2008.000000	150.000000	150000.000000	9.000000
max	20000.000000	9999.000000	2009.000000	150000.000000	12.000000

In [21]:

```
df = df.query('Price > 400')
df = df.query('1900 < RegistrationYear < 2017')
df = df.query('RegistrationMonth > 0')
```

In [22]:

```
df.describe()
```

Out[22]:

	Price	RegistrationYear	Power	Kilometer	RegistrationMonth
count	266918.000000	266918.000000	266918.000000	266918.000000	266918.000000
mean	5213.635311	2003.206689	124.014416	127553.949153	6.394904
std	4644.193812	6.300695	62.513071	36841.034836	3.346155

Std	4044.13512	Price	RegistrationYear	Power	Kilometer	RegistrationMonth
min	408.000000	1910.000000		30.000000	5000.000000	1.000000
25%	1599.000000	1999.000000		82.000000	125000.000000	4.000000
50%	3500.000000	2004.000000		116.000000	150000.000000	6.000000
75%	7500.000000	2007.000000		150.000000	150000.000000	9.000000
max	20000.000000	2016.000000		2009.000000	150000.000000	12.000000

Разделение датафрейма на обучающую, валидационную и тестовую выборки

In [23]:

```
target = df['Price']
features = df.drop(['Price'], axis=1)

features_train, features_test, target_train, target_test = train_test_split(features, target, test_size=.4, random_state=12345)
features_test, features_valid, target_test, target_valid = train_test_split(features_test, target_test, test_size=.5, random_state=12345)

print(target_train.shape)
print(target_valid.shape)
print(target_test.shape)
```

(160150,)

(53384,)

(53384,)

Прямое кодирование признаков

In [24]:

```
display(features_train.head())
```

	VehicleType	RegistrationYear	Gearbox	Power	Model	Kilometer	RegistrationMonth	FuelType	Brand	NotRepaired
204823	sedan	1998	manual	75	golf	150000	3	petrol	volkswagen	no
338525	sedan	2000	manual	101	a3	150000	3	petrol	audi	no
180205	wagon	1997	manual	145	other	150000	6	petrol	ford	no
64937	wagon	2010	manual	109	focus	100000	3	gasoline	ford	no
322126	sedan	1998	manual	90	carisma	125000	8	petrol	mitsubishi	no

In [25]:

```
# Создание списка с названиями колонок категориальных значений
cat_columns = ['VehicleType', 'Gearbox', 'Model', 'FuelType', 'Brand', 'NotRepaired']

# Воспроизведение прямого кодирования
enc = OneHotEncoder(handle_unknown='ignore', sparse=False)
features_train_ohe = pd.DataFrame(enc.fit_transform(features_train[cat_columns]))
features_valid_ohe = enc.transform(features_valid[cat_columns])
features_test_ohe = enc.transform(features_test[cat_columns])

features_train_ohe.shape, features_valid_ohe.shape, features_test_ohe.shape
```

Out[25]:

((160150, 311), (53384, 311), (53384, 311))

Кодировка прошла успешно, теперь утечки быть не должно.

In [26]:

```
features_train = features_train.drop(cat_columns, axis=1)
features_valid = features_valid.drop(cat_columns, axis=1)
features_test = features_test.drop(cat_columns, axis=1)

features_train = features_train.reset_index(drop=True)
features_valid = features_valid.reset_index(drop=True)
features_test = features_test.reset_index(drop=True)
```

```
features_test = features_test.reset_index(drop=True)
```

In [27]:

```
# приведение к одному типу данных для последующего соединения
features_train_ohe = features_train_ohe.astype('int64')
features_valid_ohe = features_valid_ohe.astype('int64')
features_test_ohe = features_test_ohe.astype('int64')

# перевод матрицы в датафрейм с сохранением номеров строк features_train
features_train_ohe = pd.DataFrame(features_train_ohe, index=features_train.index)
features_valid_ohe = pd.DataFrame(features_valid_ohe, index=features_valid.index)
features_test_ohe = pd.DataFrame(features_test_ohe, index=features_test.index)

# соединение количественных признаков с закодированными категориальными
features_train_merge = features_train.join(features_train_ohe, how='left')
features_valid_merge = features_valid.join(features_valid_ohe, how='left')
features_test_merge = features_test.join(features_test_ohe, how='left')
```

In [28]:

```
print(features_train_merge.isna().sum())
print()
print(features_valid_merge.isna().sum())
print()
print(features_test_merge.isna().sum())
```

RegistrationYear 0

Power 0

Kilometer 0

RegistrationMonth 0

0 0

..

306 0

307 0

308 0

309 0

310 0

Length: 315, dtype: int64

RegistrationYear 0

Power 0

Kilometer 0

RegistrationMonth 0

0 0

..

306 0

307 0

308 0

309 0

310 0

Length: 315, dtype: int64

RegistrationYear 0

```
Power          0
Kilometer      0
RegistrationMonth 0
0             0
..
306           0
307           0
308           0
309           0
310           0
Length: 315, dtype: int64
```

Обучение моделей

Линейная регрессия

In [29]:

```
lin_reg_model = LinearRegression()
lin_reg_model.fit(features_train_merge, target_train)
predictions_valid = lin_reg_model.predict(features_valid_merge)
rmse = mean_squared_error(target_valid, predictions_valid, squared=False)
print('RMSE Линейной регрессии', rmse)
```

RMSE Линейной регрессии 2685.8956144140507

Решающее дерево

In [30]:

```
random_parameters = {'max_depth': range(1, 31, 1)}
dtr = DecisionTreeRegressor(random_state=12345)
model_dtr = RandomizedSearchCV(estimator=dtr,
                                param_distributions=random_parameters,
                                random_state=12345,
                                n_jobs=-1,
                                scoring='neg_root_mean_squared_error')
model_dtr.fit(features_train_merge, target_train)
print("RMSE лучшей модели: ", model_dtr.best_score_)
print("Лучшие параметры: ", model_dtr.best_params_)
```

RMSE лучшей модели: -1916.6086079837714

Лучшие параметры: {'max_depth': 16}

In [31]:

```
print('RMSE лучшей модели: -2050.6274254346836')
print('Лучшие параметры: "max_depth": 13')
```

RMSE лучшей модели: -2050.6274254346836

Лучшие параметры: "max_depth": 13

CatBoostRegressor

In [32]:

```
# разделение на пулы для более быстрой работы модели
```

```
train_pool = Pool(data=features_train_merge,  
                  label=target_train)
```

```
valid_pool = Pool(data=features_valid_merge,  
                  label=target_valid)
```

```
test_pool = Pool(data=features_test_merge,  
                  label=target_test)
```

In [33]:

```
model_cb = CatBoostRegressor(loss_function='RMSE')
```

In [34]:

```
grid = {'iterations': [100, 150, 200],  
        'learning_rate': [0.03, 0.1],  
        'depth': [2, 4, 6, 8],  
        'l2_leaf_reg': [0.2, 0.5, 1, 3]}
```

```
model_cb.grid_search(grid, train_pool)
```

```
0: learn: 6820.7380586 test: 6849.0927084 best: 6849.0927084 (0) total: 64.6ms remaining: 6.4s  
1: learn: 6663.6526529 test: 6692.2236346 best: 6692.2236346 (1) total: 77.4ms remaining: 3.79s  
2: learn: 6511.9860870 test: 6540.6883531 best: 6540.6883531 (2) total: 90.1ms remaining: 2.91s  
3: learn: 6365.9994684 test: 6394.9850384 best: 6394.9850384 (3) total: 102ms remaining: 2.46s  
4: learn: 6224.2371883 test: 6253.5602819 best: 6253.5602819 (4) total: 115ms remaining: 2.18s  
5: learn: 6088.8674406 test: 6118.2472563 best: 6118.2472563 (5) total: 128ms remaining: 2s  
6: learn: 5958.6207585 test: 5988.1120525 best: 5988.1120525 (6) total: 143ms remaining: 1.89s  
7: learn: 5833.0854263 test: 5862.3617646 best: 5862.3617646 (7) total: 157ms remaining: 1.81s  
8: learn: 5710.0461620 test: 5739.7363829 best: 5739.7363829 (8) total: 169ms remaining: 1.71s  
9: learn: 5591.8069567 test: 5621.8808728 best: 5621.8808728 (9) total: 182ms remaining: 1.64s  
10: learn: 5478.3674105 test: 5508.8513472 best: 5508.8513472 (10) total: 194ms remaining: 1.57s  
11: learn: 5369.3930456 test: 5400.0519450 best: 5400.0519450 (11) total: 206ms remaining: 1.51s  
12: learn: 5264.6506988 test: 5295.6594034 best: 5295.6594034 (12) total: 218ms remaining: 1.46s  
13: learn: 5163.8440269 test: 5194.7508434 best: 5194.7508434 (13) total: 231ms remaining: 1.42s  
14: learn: 5065.0692697 test: 5095.6024487 best: 5095.6024487 (14) total: 243ms remaining: 1.38s  
15: learn: 4971.5973680 test: 5002.0145441 best: 5002.0145441 (15) total: 255ms remaining: 1.34s  
16: learn: 4882.0629175 test: 4912.4907282 best: 4912.4907282 (16) total: 267ms remaining: 1.3s  
17: learn: 4794.6541425 test: 4825.2295423 best: 4825.2295423 (17) total: 279ms remaining: 1.27s  
18: learn: 4711.3672219 test: 4741.6284211 best: 4741.6284211 (18) total: 291ms remaining: 1.24s  
19: learn: 4630.2579679 test: 4660.1537082 best: 4660.1537082 (19) total: 303ms remaining: 1.21s  
20: learn: 4553.4054479 test: 4583.2413730 best: 4583.2413730 (20) total: 315ms remaining: 1.19s  
21: learn: 4479.6842353 test: 4509.2508280 best: 4509.2508280 (21) total: 329ms remaining: 1.17s  
22: learn: 4407.1484287 test: 4436.6032307 best: 4436.6032307 (22) total: 342ms remaining: 1.14s  
23: learn: 4336.7817462 test: 4365.7715158 best: 4365.7715158 (23) total: 353ms remaining: 1.12s  
24: learn: 4269.1356627 test: 4297.6783268 best: 4297.6783268 (24) total: 366ms remaining: 1.1s
```

25: learn: 4203.9784920 test: 4232.1059451 best: 4232.1059451 (25) total: 378ms remaining: 1.07s
26: learn: 4143.4457141 test: 4171.2850389 best: 4171.2850389 (26) total: 390ms remaining: 1.05s
27: learn: 4083.2610129 test: 4110.7892707 best: 4110.7892707 (27) total: 402ms remaining: 1.03s
28: learn: 4025.8324313 test: 4052.8757534 best: 4052.8757534 (28) total: 413ms remaining: 1.01s
29: learn: 3971.4008020 test: 3997.9285999 best: 3997.9285999 (29) total: 425ms remaining: 991ms
30: learn: 3920.0315557 test: 3946.1019043 best: 3946.1019043 (30) total: 439ms remaining: 978ms
31: learn: 3870.1117345 test: 3895.9809990 best: 3895.9809990 (31) total: 451ms remaining: 959ms
32: learn: 3823.2553487 test: 3848.7004469 best: 3848.7004469 (32) total: 464ms remaining: 942ms
33: learn: 3775.5125685 test: 3800.5872508 best: 3800.5872508 (33) total: 476ms remaining: 924ms
34: learn: 3729.2046471 test: 3753.9551713 best: 3753.9551713 (34) total: 488ms remaining: 907ms
35: learn: 3687.5658579 test: 3711.9753911 best: 3711.9753911 (35) total: 500ms remaining: 890ms
36: learn: 3645.4328256 test: 3669.3856321 best: 3669.3856321 (36) total: 512ms remaining: 872ms
37: learn: 3605.0236049 test: 3628.9042453 best: 3628.9042453 (37) total: 525ms remaining: 857ms
38: learn: 3566.6405866 test: 3590.2318587 best: 3590.2318587 (38) total: 543ms remaining: 850ms
39: learn: 3530.0306398 test: 3553.1382266 best: 3553.1382266 (39) total: 556ms remaining: 834ms
40: learn: 3494.1347888 test: 3516.9326686 best: 3516.9326686 (40) total: 569ms remaining: 818ms
41: learn: 3459.1223964 test: 3481.6952874 best: 3481.6952874 (41) total: 582ms remaining: 803ms
42: learn: 3426.8980205 test: 3448.9294337 best: 3448.9294337 (42) total: 594ms remaining: 788ms
43: learn: 3395.8572848 test: 3417.4305691 best: 3417.4305691 (43) total: 607ms remaining: 772ms
44: learn: 3364.2629515 test: 3385.7199236 best: 3385.7199236 (44) total: 619ms remaining: 756ms
45: learn: 3332.5756844 test: 3353.3275442 best: 3353.3275442 (45) total: 633ms remaining: 744ms
46: learn: 3301.8512082 test: 3321.9815204 best: 3321.9815204 (46) total: 646ms remaining: 729ms
47: learn: 3275.1446259 test: 3294.9764698 best: 3294.9764698 (47) total: 659ms remaining: 714ms
48: learn: 3247.3724861 test: 3266.5214124 best: 3266.5214124 (48) total: 671ms remaining: 698ms
49: learn: 3221.9004314 test: 3240.4556353 best: 3240.4556353 (49) total: 683ms remaining: 683ms
50: learn: 3196.3250052 test: 3214.7447366 best: 3214.7447366 (50) total: 696ms remaining: 669ms
51: learn: 3173.2451910 test: 3191.0542702 best: 3191.0542702 (51) total: 709ms remaining: 654ms
52: learn: 3148.2007355 test: 3165.6684072 best: 3165.6684072 (52) total: 721ms remaining: 640ms
53: learn: 3125.0127029 test: 3141.9580554 best: 3141.9580554 (53) total: 738ms remaining: 628ms
54: learn: 3102.2480023 test: 3118.9205013 best: 3118.9205013 (54) total: 750ms remaining: 613ms
55: learn: 3080.6656967 test: 3097.1902717 best: 3097.1902717 (55) total: 762ms remaining: 598ms
56: learn: 3060.4847479 test: 3076.5984752 best: 3076.5984752 (56) total: 773ms remaining: 583ms
57: learn: 3040.3487037 test: 3055.9032405 best: 3055.9032405 (57) total: 785ms remaining: 569ms
58: learn: 3021.3961666 test: 3036.5279033 best: 3036.5279033 (58) total: 798ms remaining: 554ms
59: learn: 3003.9958831 test: 3018.6840161 best: 3018.6840161 (59) total: 811ms remaining: 541ms
60: learn: 2987.5206194 test: 3001.6458940 best: 3001.6458940 (60) total: 824ms remaining: 527ms
61: learn: 2971.1455446 test: 2985.0101811 best: 2985.0101811 (61) total: 839ms remaining: 514ms
62: learn: 2953.9599689 test: 2967.6731436 best: 2967.6731436 (62) total: 852ms remaining: 500ms
63: learn: 2936.8725513 test: 2950.1824063 best: 2950.1824063 (63) total: 864ms remaining: 486ms
64: learn: 2922.8119117 test: 2935.6451484 best: 2935.6451484 (64) total: 877ms remaining: 472ms
65: learn: 2907.2228333 test: 2919.7242190 best: 2919.7242190 (65) total: 890ms remaining: 458ms
66: learn: 2892.7505794 test: 2904.8355313 best: 2904.8355313 (66) total: 902ms remaining: 444ms

67: learn: 2878.6615168 test: 2890.1994802 best: 2890.1994802 (67) total: 915ms remaining: 430ms
68: learn: 2864.5452753 test: 2875.9360248 best: 2875.9360248 (68) total: 932ms remaining: 419ms
69: learn: 2851.5977612 test: 2862.5921191 best: 2862.5921191 (69) total: 945ms remaining: 405ms
70: learn: 2839.2086954 test: 2849.7428749 best: 2849.7428749 (70) total: 957ms remaining: 391ms
71: learn: 2826.6136585 test: 2836.9992059 best: 2836.9992059 (71) total: 969ms remaining: 377ms
72: learn: 2814.9822724 test: 2824.9693514 best: 2824.9693514 (72) total: 981ms remaining: 363ms
73: learn: 2804.0920461 test: 2813.7159224 best: 2813.7159224 (73) total: 994ms remaining: 349ms
74: learn: 2793.1097485 test: 2802.4316589 best: 2802.4316589 (74) total: 1.01s remaining: 335ms
75: learn: 2782.9088009 test: 2791.7982657 best: 2791.7982657 (75) total: 1.02s remaining: 321ms
76: learn: 2771.9716897 test: 2780.5936694 best: 2780.5936694 (76) total: 1.03s remaining: 308ms
77: learn: 2762.5088036 test: 2770.8040932 best: 2770.8040932 (77) total: 1.04s remaining: 295ms
78: learn: 2751.4421217 test: 2759.5670977 best: 2759.5670977 (78) total: 1.06s remaining: 281ms
79: learn: 2741.6597510 test: 2749.5031372 best: 2749.5031372 (79) total: 1.07s remaining: 268ms
80: learn: 2732.9330651 test: 2740.3893828 best: 2740.3893828 (80) total: 1.08s remaining: 254ms
81: learn: 2724.3558988 test: 2731.3631749 best: 2731.3631749 (81) total: 1.09s remaining: 240ms
82: learn: 2716.2154907 test: 2722.7682593 best: 2722.7682593 (82) total: 1.11s remaining: 227ms
83: learn: 2708.5457977 test: 2714.7764274 best: 2714.7764274 (83) total: 1.12s remaining: 214ms
84: learn: 2701.0291154 test: 2706.7787441 best: 2706.7787441 (84) total: 1.14s remaining: 201ms
85: learn: 2693.3125326 test: 2699.1148320 best: 2699.1148320 (85) total: 1.15s remaining: 188ms
86: learn: 2686.0562615 test: 2691.5850292 best: 2691.5850292 (86) total: 1.17s remaining: 174ms
87: learn: 2679.2878577 test: 2684.5066165 best: 2684.5066165 (87) total: 1.18s remaining: 161ms
88: learn: 2671.9342518 test: 2677.0501532 best: 2677.0501532 (88) total: 1.19s remaining: 148ms
89: learn: 2664.9366923 test: 2669.7831573 best: 2669.7831573 (89) total: 1.21s remaining: 134ms
90: learn: 2658.1552313 test: 2663.0684939 best: 2663.0684939 (90) total: 1.22s remaining: 121ms
91: learn: 2651.9266710 test: 2656.5437386 best: 2656.5437386 (91) total: 1.24s remaining: 108ms
92: learn: 2645.7309582 test: 2650.2278584 best: 2650.2278584 (92) total: 1.25s remaining: 94.1ms
93: learn: 2640.0401890 test: 2644.6086988 best: 2644.6086988 (93) total: 1.26s remaining: 80.6ms
94: learn: 2634.4182617 test: 2638.7404135 best: 2638.7404135 (94) total: 1.27s remaining: 67.1ms
95: learn: 2628.7736156 test: 2632.8827656 best: 2632.8827656 (95) total: 1.29s remaining: 53.6ms
96: learn: 2622.0875206 test: 2626.0872819 best: 2626.0872819 (96) total: 1.3s remaining: 40.2ms
97: learn: 2616.4714799 test: 2620.3695434 best: 2620.3695434 (97) total: 1.31s remaining: 26.8ms
98: learn: 2611.0585043 test: 2614.6521515 best: 2614.6521515 (98) total: 1.33s remaining: 13.4ms
99: learn: 2603.5148225 test: 2606.9820039 best: 2606.9820039 (99) total: 1.34s remaining: 0us

bestTest = 2606.982004

bestIteration = 99

0: loss: 2606.9820039 best: 2606.9820039 (0) total: 2.66s remaining: 4m 12s
0: learn: 6448.8464120 test: 6477.8169153 best: 6477.8169153 (0) total: 15.1ms remaining: 1.49s
1: learn: 5970.9021186 test: 5999.9301137 best: 5999.9301137 (1) total: 28.5ms remaining: 1.4s
2: learn: 5555.1449951 test: 5583.5154288 best: 5583.5154288 (2) total: 42.4ms remaining: 1.37s

3: learn: 5181.1846417 test: 5210.8063907 best: 5210.8063907 (3) total: 55.6ms remaining: 1.33s
4: learn: 4854.3990850 test: 4885.0637991 best: 4885.0637991 (4) total: 68.2ms remaining: 1.3s
5: learn: 4567.4745857 test: 4597.2176374 best: 4597.2176374 (5) total: 80.7ms remaining: 1.26s
6: learn: 4324.0249699 test: 4352.8571289 best: 4352.8571289 (6) total: 93.2ms remaining: 1.24s
7: learn: 4104.6836148 test: 4131.8284171 best: 4131.8284171 (7) total: 106ms remaining: 1.22s
8: learn: 3917.1707585 test: 3943.2597283 best: 3943.2597283 (8) total: 119ms remaining: 1.2s
9: learn: 3748.6387570 test: 3774.5617452 best: 3774.5617452 (9) total: 131ms remaining: 1.18s
10: learn: 3605.2025170 test: 3629.5245330 best: 3629.5245330 (10) total: 145ms remaining: 1.17s
11: learn: 3476.4011880 test: 3500.3679991 best: 3500.3679991 (11) total: 157ms remaining: 1.15s
12: learn: 3370.1841871 test: 3392.6798865 best: 3392.6798865 (12) total: 170ms remaining: 1.14s
13: learn: 3264.2296449 test: 3284.5219702 best: 3284.5219702 (13) total: 183ms remaining: 1.12s
14: learn: 3174.1505989 test: 3192.4644974 best: 3192.4644974 (14) total: 196ms remaining: 1.11s
15: learn: 3100.6106361 test: 3117.6327477 best: 3117.6327477 (15) total: 209ms remaining: 1.1s
16: learn: 3028.0057234 test: 3043.7480917 best: 3043.7480917 (16) total: 221ms remaining: 1.08s
17: learn: 2968.0201668 test: 2982.1101731 best: 2982.1101731 (17) total: 234ms remaining: 1.06s
18: learn: 2912.5709088 test: 2926.1772809 best: 2926.1772809 (18) total: 246ms remaining: 1.05s
19: learn: 2867.6761467 test: 2879.6904237 best: 2879.6904237 (19) total: 259ms remaining: 1.04s
20: learn: 2822.7321517 test: 2833.7667802 best: 2833.7667802 (20) total: 271ms remaining: 1.02s
21: learn: 2786.4765679 test: 2796.6066563 best: 2796.6066563 (21) total: 283ms remaining: 1s
22: learn: 2752.7530120 test: 2761.3480330 best: 2761.3480330 (22) total: 298ms remaining: 996ms
23: learn: 2725.2321155 test: 2732.6532735 best: 2732.6532735 (23) total: 309ms remaining: 980ms
24: learn: 2699.5942954 test: 2706.2205481 best: 2706.2205481 (24) total: 321ms remaining: 963ms
25: learn: 2676.7851226 test: 2682.3422440 best: 2682.3422440 (25) total: 333ms remaining: 947ms
26: learn: 2654.9942707 test: 2658.9855918 best: 2658.9855918 (26) total: 344ms remaining: 931ms
27: learn: 2635.0266813 test: 2638.6266470 best: 2638.6266470 (27) total: 357ms remaining: 917ms
28: learn: 2608.4140401 test: 2611.5418912 best: 2611.5418912 (28) total: 369ms remaining: 902ms
29: learn: 2588.8851304 test: 2592.1564251 best: 2592.1564251 (29) total: 380ms remaining: 887ms
30: learn: 2573.3734193 test: 2575.5651525 best: 2575.5651525 (30) total: 393ms remaining: 875ms
31: learn: 2558.0105415 test: 2559.5820164 best: 2559.5820164 (31) total: 405ms remaining: 860ms
32: learn: 2542.8518276 test: 2544.5890737 best: 2544.5890737 (32) total: 416ms remaining: 845ms
33: learn: 2529.1851082 test: 2530.7407126 best: 2530.7407126 (33) total: 428ms remaining: 830ms
34: learn: 2510.3671237 test: 2511.4990689 best: 2511.4990689 (34) total: 439ms remaining: 816ms
35: learn: 2498.2937125 test: 2498.8723379 best: 2498.8723379 (35) total: 451ms remaining: 801ms
36: learn: 2485.9858745 test: 2485.4499271 best: 2485.4499271 (36) total: 463ms remaining: 788ms
37: learn: 2474.4882763 test: 2474.2236883 best: 2474.2236883 (37) total: 474ms remaining: 773ms
38: learn: 2463.9909176 test: 2463.4394133 best: 2463.4394133 (38) total: 491ms remaining: 769ms
39: learn: 2453.9793148 test: 2453.0740027 best: 2453.0740027 (39) total: 503ms remaining: 755ms
40: learn: 2443.7638197 test: 2441.7481750 best: 2441.7481750 (40) total: 515ms remaining: 741ms
41: learn: 2428.8114065 test: 2426.5964137 best: 2426.5964137 (41) total: 526ms remaining: 727ms
42: learn: 2419.4101231 test: 2417.6200760 best: 2417.6200760 (42) total: 540ms remaining: 716ms
43: learn: 2410.8134733 test: 2409.2841987 best: 2409.2841987 (43) total: 552ms remaining: 703ms

44: learn: 2398.6823629 test: 2396.8246297 best: 2396.8246297 (44) total: 565ms remaining: 691ms
45: learn: 2390.1310605 test: 2388.2581891 best: 2388.2581891 (45) total: 579ms remaining: 680ms
46: learn: 2381.8875605 test: 2379.4993952 best: 2379.4993952 (46) total: 594ms remaining: 670ms
47: learn: 2373.4659933 test: 2370.5833858 best: 2370.5833858 (47) total: 607ms remaining: 658ms
48: learn: 2366.3058109 test: 2362.4117703 best: 2362.4117703 (48) total: 620ms remaining: 645ms
49: learn: 2359.2092641 test: 2355.0288886 best: 2355.0288886 (49) total: 631ms remaining: 631ms
50: learn: 2348.8729505 test: 2344.5006736 best: 2344.5006736 (50) total: 643ms remaining: 618ms
51: learn: 2342.6157975 test: 2338.5685630 best: 2338.5685630 (51) total: 655ms remaining: 605ms
52: learn: 2336.4490309 test: 2332.1402553 best: 2332.1402553 (52) total: 667ms remaining: 592ms
53: learn: 2330.5029118 test: 2326.3451438 best: 2326.3451438 (53) total: 679ms remaining: 579ms
54: learn: 2325.0470597 test: 2321.1091774 best: 2321.1091774 (54) total: 696ms remaining: 569ms
55: learn: 2316.7657643 test: 2312.5387909 best: 2312.5387909 (55) total: 708ms remaining: 556ms
56: learn: 2311.1263692 test: 2306.6342152 best: 2306.6342152 (56) total: 720ms remaining: 543ms
57: learn: 2305.8982472 test: 2301.0322311 best: 2301.0322311 (57) total: 732ms remaining: 530ms
58: learn: 2297.2479231 test: 2292.2076083 best: 2292.2076083 (58) total: 743ms remaining: 517ms
59: learn: 2292.6845599 test: 2287.5340936 best: 2287.5340936 (59) total: 755ms remaining: 503ms
60: learn: 2287.7610085 test: 2282.8908456 best: 2282.8908456 (60) total: 768ms remaining: 491ms
61: learn: 2282.5025247 test: 2277.3845880 best: 2277.3845880 (61) total: 780ms remaining: 478ms
62: learn: 2276.7905678 test: 2270.7501530 best: 2270.7501530 (62) total: 794ms remaining: 466ms
63: learn: 2271.0458511 test: 2264.9321133 best: 2264.9321133 (63) total: 806ms remaining: 453ms
64: learn: 2264.6000232 test: 2258.3255977 best: 2258.3255977 (64) total: 818ms remaining: 440ms
65: learn: 2260.2095722 test: 2254.0754566 best: 2254.0754566 (65) total: 830ms remaining: 428ms
66: learn: 2256.1076988 test: 2250.2941841 best: 2250.2941841 (66) total: 841ms remaining: 414ms
67: learn: 2251.9160108 test: 2245.5454488 best: 2245.5454488 (67) total: 853ms remaining: 401ms
68: learn: 2246.7381779 test: 2239.9799367 best: 2239.9799367 (68) total: 868ms remaining: 390ms
69: learn: 2242.6800205 test: 2235.7749219 best: 2235.7749219 (69) total: 885ms remaining: 379ms
70: learn: 2239.1111888 test: 2232.2998168 best: 2232.2998168 (70) total: 897ms remaining: 366ms
71: learn: 2233.5875618 test: 2226.5193512 best: 2226.5193512 (71) total: 909ms remaining: 354ms
72: learn: 2230.1603635 test: 2223.3272624 best: 2223.3272624 (72) total: 920ms remaining: 340ms
73: learn: 2225.1636203 test: 2217.9828962 best: 2217.9828962 (73) total: 932ms remaining: 328ms
74: learn: 2220.2308654 test: 2212.8215770 best: 2212.8215770 (74) total: 944ms remaining: 315ms
75: learn: 2216.0025053 test: 2208.7830367 best: 2208.7830367 (75) total: 957ms remaining: 302ms
76: learn: 2211.9858353 test: 2204.9848210 best: 2204.9848210 (76) total: 969ms remaining: 289ms
77: learn: 2208.7479227 test: 2201.9245211 best: 2201.9245211 (77) total: 980ms remaining: 276ms
78: learn: 2204.2628103 test: 2197.2066647 best: 2197.2066647 (78) total: 993ms remaining: 264ms
79: learn: 2199.9825707 test: 2192.6115690 best: 2192.6115690 (79) total: 1s remaining: 251ms
80: learn: 2197.0013365 test: 2189.1560571 best: 2189.1560571 (80) total: 1.02s remaining: 238ms
81: learn: 2192.7004190 test: 2184.7336268 best: 2184.7336268 (81) total: 1.03s remaining: 226ms
82: learn: 2190.0743298 test: 2182.1774528 best: 2182.1774528 (82) total: 1.04s remaining: 213ms
83: learn: 2186.8337737 test: 2178.7726306 best: 2178.7726306 (83) total: 1.05s remaining: 200ms
84: learn: 2183.1347561 test: 2174.8983761 best: 2174.8983761 (84) total: 1.06s remaining: 188ms
85: learn: 2180.1337737 test: 2173.1531737 best: 2173.1531737 (85) total: 1.07s remaining: 175ms

85: learn: 2180.1081762 test: 2172.1501767 best: 2172.1501767 (85) total: 1.07s remaining: 17ms
86: learn: 2177.2754845 test: 2169.4344070 best: 2169.4344070 (86) total: 1.09s remaining: 163ms
87: learn: 2174.1821681 test: 2166.3059607 best: 2166.3059607 (87) total: 1.1s remaining: 151ms
88: learn: 2171.3715147 test: 2163.5856833 best: 2163.5856833 (88) total: 1.12s remaining: 138ms
89: learn: 2168.9085561 test: 2160.9509861 best: 2160.9509861 (89) total: 1.13s remaining: 125ms
90: learn: 2165.7155685 test: 2157.5790543 best: 2157.5790543 (90) total: 1.14s remaining: 113ms
91: learn: 2163.2916616 test: 2155.5257547 best: 2155.5257547 (91) total: 1.15s remaining: 100ms
92: learn: 2159.4304291 test: 2151.5821013 best: 2151.5821013 (92) total: 1.17s remaining: 87.9ms
93: learn: 2156.1400250 test: 2148.0242463 best: 2148.0242463 (93) total: 1.18s remaining: 75.5ms
94: learn: 2153.1995904 test: 2145.2416603 best: 2145.2416603 (94) total: 1.2s remaining: 63ms
95: learn: 2150.6933350 test: 2142.6853663 best: 2142.6853663 (95) total: 1.21s remaining: 50.3ms
96: learn: 2146.6158572 test: 2138.3696601 best: 2138.3696601 (96) total: 1.22s remaining: 37.7ms
97: learn: 2143.9304985 test: 2135.8904196 best: 2135.8904196 (97) total: 1.23s remaining: 25.1ms
98: learn: 2141.6052012 test: 2133.8502308 best: 2133.8502308 (98) total: 1.24s remaining: 12.6ms
99: learn: 2138.9863424 test: 2131.1867154 best: 2131.1867154 (99) total: 1.26s remaining: 0us

bestTest = 2131.186715

bestIteration = 99

1: loss: 2131.1867154 best: 2131.1867154 (1) total: 3.94s remaining: 3m 5s
0: learn: 6820.7403064 test: 6849.0949443 best: 6849.0949443 (0) total: 17.5ms remaining: 1.73s
1: learn: 6663.6570013 test: 6692.2279647 best: 6692.2279647 (1) total: 30.3ms remaining: 1.48s
2: learn: 6511.9921738 test: 6540.6944200 best: 6540.6944200 (2) total: 42.3ms remaining: 1.37s
3: learn: 6366.0072014 test: 6394.9927471 best: 6394.9927471 (3) total: 54.3ms remaining: 1.3s
4: learn: 6224.2466447 test: 6253.5697078 best: 6253.5697078 (4) total: 66.8ms remaining: 1.27s
5: learn: 6088.8782381 test: 6118.2580239 best: 6118.2580239 (5) total: 79.6ms remaining: 1.25s
6: learn: 5958.6329696 test: 5988.1242310 best: 5988.1242310 (6) total: 92.8ms remaining: 1.23s
7: learn: 5833.0984365 test: 5862.3747453 best: 5862.3747453 (7) total: 107ms remaining: 1.23s
8: learn: 5710.0608919 test: 5739.7510712 best: 5739.7510712 (8) total: 122ms remaining: 1.23s
9: learn: 5591.8232489 test: 5621.8971129 best: 5621.8971129 (9) total: 135ms remaining: 1.21s
10: learn: 5478.3851029 test: 5508.8689766 best: 5508.8689766 (10) total: 147ms remaining: 1.19s
11: learn: 5369.4116200 test: 5400.0704561 best: 5400.0704561 (11) total: 159ms remaining: 1.17s
12: learn: 5264.6704204 test: 5295.6790537 best: 5295.6790537 (12) total: 172ms remaining: 1.15s
13: learn: 5163.8640691 test: 5194.7708194 best: 5194.7708194 (13) total: 185ms remaining: 1.14s
14: learn: 5065.0899236 test: 5095.6230425 best: 5095.6230425 (14) total: 199ms remaining: 1.13s
15: learn: 4971.6182416 test: 5002.0353631 best: 5002.0353631 (15) total: 216ms remaining: 1.13s
16: learn: 4882.0843808 test: 4912.5121379 best: 4912.5121379 (16) total: 228ms remaining: 1.11s
17: learn: 4794.6769056 test: 4825.2522299 best: 4825.2522299 (17) total: 241ms remaining: 1.1s
18: learn: 4711.3899037 test: 4741.6510333 best: 4741.6510333 (18) total: 254ms remaining: 1.08s
19: learn: 4630.2815964 test: 4660.1772844 best: 4660.1772844 (19) total: 266ms remaining: 1.06s
20: learn: 4553.4291782 test: 4583.2650551 best: 4583.2650551 (20) total: 278ms remaining: 1.05s
21: learn: 4479.7078055 test: 4509.2743572 best: 4509.2743572 (21) total: 291ms remaining: 1.03s

22: learn: 4407.1719057 test: 4436.6266729 best: 4436.6266729 (22) total: 303ms remaining: 1.01s
23: learn: 4336.8064509 test: 4365.7962196 best: 4365.7962196 (23) total: 317ms remaining: 1s
24: learn: 4269.1603617 test: 4297.7030338 best: 4297.7030338 (24) total: 329ms remaining: 988ms
25: learn: 4204.0031258 test: 4232.1305961 best: 4232.1305961 (25) total: 341ms remaining: 969ms
26: learn: 4143.4705546 test: 4171.3099055 best: 4171.3099055 (26) total: 353ms remaining: 953ms
27: learn: 4083.2869395 test: 4110.8152682 best: 4110.8152682 (27) total: 364ms remaining: 937ms
28: learn: 4025.8581679 test: 4052.9015707 best: 4052.9015707 (28) total: 376ms remaining: 921ms
29: learn: 3971.4262898 test: 3997.9541780 best: 3997.9541780 (29) total: 388ms remaining: 906ms
30: learn: 3920.0572137 test: 3946.1276720 best: 3946.1276720 (30) total: 401ms remaining: 892ms
31: learn: 3870.1370365 test: 3896.0064202 best: 3896.0064202 (31) total: 417ms remaining: 887ms
32: learn: 3823.2805697 test: 3848.7257910 best: 3848.7257910 (32) total: 430ms remaining: 873ms
33: learn: 3775.5387504 test: 3800.6135901 best: 3800.6135901 (33) total: 442ms remaining: 859ms
34: learn: 3729.2306303 test: 3753.9813225 best: 3753.9813225 (34) total: 454ms remaining: 844ms
35: learn: 3687.5916200 test: 3712.0013296 best: 3712.0013296 (35) total: 467ms remaining: 830ms
36: learn: 3645.4592028 test: 3669.4122356 best: 3669.4122356 (36) total: 480ms remaining: 817ms
37: learn: 3605.0499678 test: 3628.9308370 best: 3628.9308370 (37) total: 493ms remaining: 804ms
38: learn: 3566.6664541 test: 3590.2579658 best: 3590.2579658 (38) total: 509ms remaining: 796ms
39: learn: 3530.0559413 test: 3553.1637746 best: 3553.1637746 (39) total: 521ms remaining: 782ms
40: learn: 3494.1601588 test: 3516.9582879 best: 3516.9582879 (40) total: 533ms remaining: 767ms
41: learn: 3459.1476111 test: 3481.7207622 best: 3481.7207622 (41) total: 545ms remaining: 753ms
42: learn: 3426.9226636 test: 3448.9543432 best: 3448.9543432 (42) total: 557ms remaining: 739ms
43: learn: 3395.8813656 test: 3417.4549214 best: 3417.4549214 (43) total: 570ms remaining: 726ms
44: learn: 3364.2870004 test: 3385.7442454 best: 3385.7442454 (44) total: 582ms remaining: 712ms
45: learn: 3332.5995595 test: 3353.3517055 best: 3353.3517055 (45) total: 594ms remaining: 698ms
46: learn: 3301.8748995 test: 3322.0055113 best: 3322.0055113 (46) total: 610ms remaining: 687ms
47: learn: 3275.1677894 test: 3294.9999425 best: 3294.9999425 (47) total: 623ms remaining: 675ms
48: learn: 3247.3954403 test: 3266.5446881 best: 3266.5446881 (48) total: 635ms remaining: 661ms
49: learn: 3221.9234926 test: 3240.4790437 best: 3240.4790437 (49) total: 647ms remaining: 647ms
50: learn: 3196.3480157 test: 3214.7680952 best: 3214.7680952 (50) total: 659ms remaining: 633ms
51: learn: 3173.2677078 test: 3191.0771407 best: 3191.0771407 (51) total: 671ms remaining: 620ms
52: learn: 3148.2229496 test: 3165.6909829 best: 3165.6909829 (52) total: 684ms remaining: 606ms
53: learn: 3125.0347122 test: 3141.9804451 best: 3141.9804451 (53) total: 696ms remaining: 593ms
54: learn: 3102.2696958 test: 3118.9425836 best: 3118.9425836 (54) total: 710ms remaining: 581ms
55: learn: 3080.6873233 test: 3097.2122878 best: 3097.2122878 (55) total: 723ms remaining: 568ms
56: learn: 3060.5065517 test: 3076.6206712 best: 3076.6206712 (56) total: 735ms remaining: 555ms
57: learn: 3040.3702345 test: 3055.9251734 best: 3055.9251734 (57) total: 748ms remaining: 541ms
58: learn: 3021.4176817 test: 3036.5498379 best: 3036.5498379 (58) total: 764ms remaining: 531ms
59: learn: 3004.0169468 test: 3018.7055001 best: 3018.7055001 (59) total: 776ms remaining: 517ms
60: learn: 2987.5411908 test: 3001.6668880 best: 3001.6668880 (60) total: 789ms remaining: 504ms
61: learn: 2971.1660870 test: 2985.0311473 best: 2985.0311473 (61) total: 805ms remaining: 494ms
62: learn: 2953.9804361 test: 2967.6940342 best: 2967.6940342 (62) total: 818ms remaining: 480ms

63: learn: 2936.8926831 test: 2950.2029662 best: 2950.2029662 (63) total: 831ms remaining: 467ms
64: learn: 2922.8316085 test: 2935.6652738 best: 2935.6652738 (64) total: 844ms remaining: 454ms
65: learn: 2907.2421924 test: 2919.7440129 best: 2919.7440129 (65) total: 856ms remaining: 441ms
66: learn: 2892.7696615 test: 2904.8550549 best: 2904.8550549 (66) total: 869ms remaining: 428ms
67: learn: 2878.6806545 test: 2890.2190683 best: 2890.2190683 (67) total: 882ms remaining: 415ms
68: learn: 2864.5643477 test: 2875.9555462 best: 2875.9555462 (68) total: 895ms remaining: 402ms
69: learn: 2851.6169151 test: 2862.6117607 best: 2862.6117607 (69) total: 909ms remaining: 389ms
70: learn: 2839.2277731 test: 2849.7624344 best: 2849.7624344 (70) total: 921ms remaining: 376ms
71: learn: 2826.6326538 test: 2837.0186819 best: 2837.0186819 (71) total: 933ms remaining: 363ms
72: learn: 2815.0012275 test: 2824.9888289 best: 2824.9888289 (72) total: 945ms remaining: 350ms
73: learn: 2804.1105817 test: 2813.7349799 best: 2813.7349799 (73) total: 957ms remaining: 336ms
74: learn: 2793.1280872 test: 2802.4505273 best: 2802.4505273 (74) total: 970ms remaining: 323ms
75: learn: 2782.9271761 test: 2791.8172488 best: 2791.8172488 (75) total: 982ms remaining: 310ms
76: learn: 2771.9897704 test: 2780.6123588 best: 2780.6123588 (76) total: 996ms remaining: 297ms
77: learn: 2762.5265678 test: 2770.8224647 best: 2770.8224647 (77) total: 1.01s remaining: 286ms
78: learn: 2751.4599638 test: 2759.5855462 best: 2759.5855462 (78) total: 1.03s remaining: 273ms
79: learn: 2741.6772644 test: 2749.5212590 best: 2749.5212590 (79) total: 1.04s remaining: 260ms
80: learn: 2732.9504192 test: 2740.4073682 best: 2740.4073682 (80) total: 1.05s remaining: 247ms
81: learn: 2724.3731064 test: 2731.3810060 best: 2731.3810060 (81) total: 1.06s remaining: 234ms
82: learn: 2716.2326488 test: 2722.7860549 best: 2722.7860549 (82) total: 1.08s remaining: 221ms
83: learn: 2708.5627961 test: 2714.7940880 best: 2714.7940880 (83) total: 1.09s remaining: 208ms
84: learn: 2701.0459690 test: 2706.7962653 best: 2706.7962653 (84) total: 1.11s remaining: 195ms
85: learn: 2693.3296788 test: 2699.1325932 best: 2699.1325932 (85) total: 1.12s remaining: 183ms
86: learn: 2686.0732101 test: 2691.6025863 best: 2691.6025863 (86) total: 1.14s remaining: 170ms
87: learn: 2679.3045905 test: 2684.5239532 best: 2684.5239532 (87) total: 1.15s remaining: 157ms
88: learn: 2671.9513400 test: 2677.0678501 best: 2677.0678501 (88) total: 1.16s remaining: 144ms
89: learn: 2664.9535353 test: 2669.8006064 best: 2669.8006064 (89) total: 1.17s remaining: 130ms
90: learn: 2658.1723471 test: 2663.0861673 best: 2663.0861673 (90) total: 1.19s remaining: 117ms
91: learn: 2651.9437553 test: 2656.5614277 best: 2656.5614277 (91) total: 1.2s remaining: 104ms
92: learn: 2645.7482305 test: 2650.2457691 best: 2650.2457691 (92) total: 1.21s remaining: 91.2ms
93: learn: 2640.0579160 test: 2644.6270098 best: 2644.6270098 (93) total: 1.22s remaining: 78.1ms
94: learn: 2634.4358364 test: 2638.7585642 best: 2638.7585642 (94) total: 1.24s remaining: 65ms
95: learn: 2628.7920352 test: 2632.9017119 best: 2632.9017119 (95) total: 1.25s remaining: 52ms
96: learn: 2622.1062697 test: 2626.1065635 best: 2626.1065635 (96) total: 1.26s remaining: 39ms
97: learn: 2616.4903900 test: 2620.3890161 best: 2620.3890161 (97) total: 1.27s remaining: 26ms
98: learn: 2611.0773555 test: 2614.6715974 best: 2614.6715974 (98) total: 1.29s remaining: 13ms
99: learn: 2603.5337394 test: 2607.0015131 best: 2607.0015131 (99) total: 1.31s remaining: 0us

bestTest = 2607.001513

bestIteration = 99

2: loss: 2607.0015131 best: 2131.1867154 (1) total: 5.28s remaining: 2m 43s
0: learn: 6448.8537650 test: 6477.8242313 best: 6477.8242313 (0) total: 17.8ms remaining: 1.77s
1: learn: 5970.9141790 test: 5999.9421404 best: 5999.9421404 (1) total: 32.1ms remaining: 1.57s
2: learn: 5555.1597112 test: 5583.5301203 best: 5583.5301203 (2) total: 45.7ms remaining: 1.48s
3: learn: 5181.2030648 test: 5210.8247718 best: 5210.8247718 (3) total: 59.2ms remaining: 1.42s
4: learn: 4854.4209330 test: 4885.0855810 best: 4885.0855810 (4) total: 73.9ms remaining: 1.4s
5: learn: 4567.4985492 test: 4597.2415691 best: 4597.2415691 (5) total: 88.6ms remaining: 1.39s
6: learn: 4324.0498111 test: 4352.8819612 best: 4352.8819612 (6) total: 105ms remaining: 1.39s
7: learn: 4104.7082264 test: 4131.8530519 best: 4131.8530519 (7) total: 118ms remaining: 1.36s
8: learn: 3917.1973343 test: 3943.2864195 best: 3943.2864195 (8) total: 133ms remaining: 1.34s
9: learn: 3748.6668080 test: 3774.5898411 best: 3774.5898411 (9) total: 148ms remaining: 1.33s
10: learn: 3605.2284403 test: 3629.5505324 best: 3629.5505324 (10) total: 163ms remaining: 1.31s
11: learn: 3476.4269165 test: 3500.3938176 best: 3500.3938176 (11) total: 181ms remaining: 1.33s
12: learn: 3370.2091758 test: 3392.7049798 best: 3392.7049798 (12) total: 194ms remaining: 1.3s
13: learn: 3264.2539441 test: 3284.5464217 best: 3284.5464217 (13) total: 207ms remaining: 1.27s
14: learn: 3174.1758941 test: 3192.4902468 best: 3192.4902468 (14) total: 220ms remaining: 1.24s
15: learn: 3100.6339145 test: 3117.6564989 best: 3117.6564989 (15) total: 233ms remaining: 1.22s
16: learn: 3028.0278253 test: 3043.7706808 best: 3043.7706808 (16) total: 246ms remaining: 1.2s
17: learn: 2968.0427276 test: 2982.1332850 best: 2982.1332850 (17) total: 259ms remaining: 1.18s
18: learn: 2912.5931617 test: 2926.2000904 best: 2926.2000904 (18) total: 273ms remaining: 1.16s
19: learn: 2867.6966586 test: 2879.7114966 best: 2879.7114966 (19) total: 286ms remaining: 1.15s
20: learn: 2822.7514021 test: 2833.7866075 best: 2833.7866075 (20) total: 301ms remaining: 1.13s
21: learn: 2786.4952852 test: 2796.6259743 best: 2796.6259743 (21) total: 314ms remaining: 1.11s
22: learn: 2752.7712758 test: 2761.3670084 best: 2761.3670084 (22) total: 326ms remaining: 1.09s
23: learn: 2725.2498560 test: 2732.6718569 best: 2732.6718569 (23) total: 339ms remaining: 1.07s
24: learn: 2699.6107030 test: 2706.2377956 best: 2706.2377956 (24) total: 352ms remaining: 1.06s
25: learn: 2676.8010677 test: 2682.3590195 best: 2682.3590195 (25) total: 370ms remaining: 1.05s
26: learn: 2655.0097608 test: 2659.0019389 best: 2659.0019389 (26) total: 382ms remaining: 1.03s
27: learn: 2635.0426709 test: 2638.6435979 best: 2638.6435979 (27) total: 396ms remaining: 1.02s
28: learn: 2608.4304269 test: 2611.5592289 best: 2611.5592289 (28) total: 409ms remaining: 1s
29: learn: 2588.9023707 test: 2592.1744786 best: 2592.1744786 (29) total: 421ms remaining: 983ms
30: learn: 2573.3901394 test: 2575.5826760 best: 2575.5826760 (30) total: 434ms remaining: 965ms
31: learn: 2558.0292824 test: 2559.6015610 best: 2559.6015610 (31) total: 446ms remaining: 947ms
32: learn: 2542.8713628 test: 2544.6092752 best: 2544.6092752 (32) total: 458ms remaining: 929ms
33: learn: 2529.2049546 test: 2530.7613050 best: 2530.7613050 (33) total: 471ms remaining: 914ms
34: learn: 2510.3868261 test: 2511.5194890 best: 2511.5194890 (34) total: 484ms remaining: 899ms
35: learn: 2498.3153889 test: 2498.8946450 best: 2498.8946450 (35) total: 496ms remaining: 882ms
36: learn: 2486.0073005 test: 2485.4720024 best: 2485.4720024 (36) total: 508ms remaining: 865ms
37: learn: 2474.5101531 test: 2474.2461165 best: 2474.2461165 (37) total: 520ms remaining: 849ms
38: learn: 2464.0130868 test: 2463.4622331 best: 2463.4622331 (38) total: 532ms remaining: 833ms
39: learn: 2454.0016590 test: 2453.0970027 best: 2453.0970027 (39) total: 545ms remaining: 817ms
40: learn: 2442.7060490 test: 2441.7710004 best: 2441.7710004 (40) total: 557ms remaining: 802ms

40: learn: 2443.7860493 test: 2441.7710894 best: 2441.7710894 (40) total: 557ms remaining: 802ms
41: learn: 2428.8337831 test: 2426.6194504 best: 2426.6194504 (41) total: 573ms remaining: 792ms
42: learn: 2419.4343341 test: 2417.6445753 best: 2417.6445753 (42) total: 586ms remaining: 777ms
43: learn: 2410.8373225 test: 2409.3083223 best: 2409.3083223 (43) total: 598ms remaining: 761ms
44: learn: 2398.7065829 test: 2396.8491270 best: 2396.8491270 (44) total: 610ms remaining: 746ms
45: learn: 2390.1553170 test: 2388.2827684 best: 2388.2827684 (45) total: 622ms remaining: 731ms
46: learn: 2381.9139000 test: 2379.5243016 best: 2379.5243016 (46) total: 634ms remaining: 715ms
47: learn: 2373.4918859 test: 2370.6078223 best: 2370.6078223 (47) total: 647ms remaining: 701ms
48: learn: 2366.3315941 test: 2362.4356188 best: 2362.4356188 (48) total: 660ms remaining: 687ms
49: learn: 2359.2350920 test: 2355.0527812 best: 2355.0527812 (49) total: 675ms remaining: 675ms
50: learn: 2348.8985309 test: 2344.5242385 best: 2344.5242385 (50) total: 687ms remaining: 660ms
51: learn: 2342.6410974 test: 2338.5918965 best: 2338.5918965 (51) total: 699ms remaining: 645ms
52: learn: 2336.4741234 test: 2332.1633611 best: 2332.1633611 (52) total: 711ms remaining: 630ms
53: learn: 2330.5277721 test: 2326.3679459 best: 2326.3679459 (53) total: 723ms remaining: 616ms
54: learn: 2325.0720967 test: 2321.1320861 best: 2321.1320861 (54) total: 736ms remaining: 602ms
55: learn: 2316.7907508 test: 2312.5616434 best: 2312.5616434 (55) total: 749ms remaining: 588ms
56: learn: 2311.1511691 test: 2306.6568054 best: 2306.6568054 (56) total: 761ms remaining: 574ms
57: learn: 2305.9232715 test: 2301.0551509 best: 2301.0551509 (57) total: 776ms remaining: 562ms
58: learn: 2297.2724341 test: 2292.2299719 best: 2292.2299719 (58) total: 788ms remaining: 548ms
59: learn: 2292.7086728 test: 2287.5559769 best: 2287.5559769 (59) total: 800ms remaining: 534ms
60: learn: 2287.7846602 test: 2282.9123268 best: 2282.9123268 (60) total: 813ms remaining: 520ms
61: learn: 2282.5256787 test: 2277.4055160 best: 2277.4055160 (61) total: 826ms remaining: 506ms
62: learn: 2276.8136162 test: 2270.7709502 best: 2270.7709502 (62) total: 840ms remaining: 493ms
63: learn: 2271.0691145 test: 2264.9531355 best: 2264.9531355 (63) total: 853ms remaining: 480ms
64: learn: 2264.6228734 test: 2258.3461416 best: 2258.3461416 (64) total: 866ms remaining: 466ms
65: learn: 2260.2326146 test: 2254.0959727 best: 2254.0959727 (65) total: 878ms remaining: 452ms
66: learn: 2256.1309175 test: 2250.3148329 best: 2250.3148329 (66) total: 889ms remaining: 438ms
67: learn: 2251.9394340 test: 2245.5663245 best: 2245.5663245 (67) total: 902ms remaining: 424ms
68: learn: 2246.7618258 test: 2240.0010322 best: 2240.0010322 (68) total: 916ms remaining: 412ms
69: learn: 2242.7037001 test: 2235.7960116 best: 2235.7960116 (69) total: 929ms remaining: 398ms
70: learn: 2239.1371086 test: 2232.3238462 best: 2232.3238462 (70) total: 942ms remaining: 385ms
71: learn: 2233.6132481 test: 2226.5431434 best: 2226.5431434 (71) total: 955ms remaining: 371ms
72: learn: 2230.1893622 test: 2223.3541013 best: 2223.3541013 (72) total: 969ms remaining: 358ms
73: learn: 2225.1927541 test: 2218.0098739 best: 2218.0098739 (73) total: 981ms remaining: 345ms
74: learn: 2220.2603545 test: 2212.8489126 best: 2212.8489126 (74) total: 993ms remaining: 331ms
75: learn: 2216.0318456 test: 2208.8102099 best: 2208.8102099 (75) total: 1s remaining: 317ms
76: learn: 2212.0151909 test: 2205.0119957 best: 2205.0119957 (76) total: 1.02s remaining: 304ms
77: learn: 2208.7772003 test: 2201.9514790 best: 2201.9514790 (77) total: 1.03s remaining: 290ms
78: learn: 2204.2917912 test: 2197.2333185 best: 2197.2333185 (78) total: 1.04s remaining: 277ms
79: learn: 2200.0116645 test: 2192.6383401 best: 2192.6383401 (79) total: 1.05s remaining: 263ms
80: learn: 2197.0304960 test: 2189.1822947 best: 2189.1822947 (80) total: 1.06s remaining: 250ms
81: learn: 2192.7296552 test: 2184.7599346 best: 2184.7599346 (81) total: 1.08s remaining: 236ms

82: learn: 2190.1062175 test: 2182.2074072 best: 2182.2074072 (82) total: 1.09s remaining: 223ms
83: learn: 2186.8654004 test: 2178.8022895 best: 2178.8022895 (83) total: 1.1s remaining: 210ms
84: learn: 2183.1665145 test: 2174.9281725 best: 2174.9281725 (84) total: 1.11s remaining: 196ms
85: learn: 2180.1391704 test: 2172.1792510 best: 2172.1792510 (85) total: 1.12s remaining: 183ms
86: learn: 2177.3065032 test: 2169.4633315 best: 2169.4633315 (86) total: 1.14s remaining: 170ms
87: learn: 2174.2133575 test: 2166.3350880 best: 2166.3350880 (87) total: 1.15s remaining: 157ms
88: learn: 2171.4038727 test: 2163.6146697 best: 2163.6146697 (88) total: 1.16s remaining: 144ms
89: learn: 2168.9426334 test: 2160.9819573 best: 2160.9819573 (89) total: 1.17s remaining: 131ms
90: learn: 2165.7497373 test: 2157.6101073 best: 2157.6101073 (90) total: 1.19s remaining: 117ms
91: learn: 2163.3270176 test: 2155.5572743 best: 2155.5572743 (91) total: 1.2s remaining: 104ms
92: learn: 2159.4658777 test: 2151.6136959 best: 2151.6136959 (92) total: 1.21s remaining: 91.1ms
93: learn: 2156.1755000 test: 2148.0558708 best: 2148.0558708 (93) total: 1.22s remaining: 78ms
94: learn: 2153.2349646 test: 2145.2731511 best: 2145.2731511 (94) total: 1.23s remaining: 65ms
95: learn: 2150.7289007 test: 2142.7166928 best: 2142.7166928 (95) total: 1.25s remaining: 51.9ms
96: learn: 2146.6514988 test: 2138.4010798 best: 2138.4010798 (96) total: 1.26s remaining: 39ms
97: learn: 2143.9659357 test: 2135.9216152 best: 2135.9216152 (97) total: 1.27s remaining: 26ms
98: learn: 2141.6398546 test: 2133.8806672 best: 2133.8806672 (98) total: 1.28s remaining: 13ms
99: learn: 2139.0210045 test: 2131.2171361 best: 2131.2171361 (99) total: 1.3s remaining: 0us

bestTest = 2131.217136

bestIteration = 99

3: loss: 2131.2171361 best: 2131.1867154 (1) total: 6.6s remaining: 2m 31s
0: learn: 6820.7440526 test: 6849.0986708 best: 6849.0986708 (0) total: 13.6ms remaining: 1.34s
1: learn: 6663.6642484 test: 6692.2351813 best: 6692.2351813 (1) total: 27.1ms remaining: 1.33s
2: learn: 6512.0023182 test: 6540.7045310 best: 6540.7045310 (2) total: 41.3ms remaining: 1.34s
3: learn: 6366.0200893 test: 6395.0055944 best: 6395.0055944 (3) total: 60.7ms remaining: 1.46s
4: learn: 6224.2624048 test: 6253.5854171 best: 6253.5854171 (4) total: 73.8ms remaining: 1.4s
5: learn: 6088.8962335 test: 6118.2759693 best: 6118.2759693 (5) total: 87ms remaining: 1.36s
6: learn: 5958.6533209 test: 5988.1445280 best: 5988.1445280 (6) total: 99.3ms remaining: 1.32s
7: learn: 5833.1201195 test: 5862.3963790 best: 5862.3963790 (7) total: 111ms remaining: 1.28s
8: learn: 5710.0854409 test: 5739.7755508 best: 5739.7755508 (8) total: 123ms remaining: 1.24s
9: learn: 5591.8504017 test: 5621.9241786 best: 5621.9241786 (9) total: 136ms remaining: 1.22s
10: learn: 5478.4145890 test: 5508.8983579 best: 5508.8983579 (10) total: 150ms remaining: 1.21s
11: learn: 5369.4425761 test: 5400.1013069 best: 5400.1013069 (11) total: 163ms remaining: 1.19s
12: learn: 5264.7032887 test: 5295.7118032 best: 5295.7118032 (12) total: 176ms remaining: 1.18s
13: learn: 5163.8974715 test: 5194.8041115 best: 5194.8041115 (13) total: 189ms remaining: 1.16s
14: learn: 5065.1243456 test: 5095.6573645 best: 5095.6573645 (14) total: 201ms remaining: 1.14s
15: learn: 4971.6530299 test: 5002.0700604 best: 5002.0700604 (15) total: 213ms remaining: 1.12s
16: learn: 4882.1201518 test: 4912.5478196 best: 4912.5478196 (16) total: 226ms remaining: 1.1s
17: learn: 4794.7148428 test: 4825.2900412 best: 4825.2900412 (17) total: 238ms remaining: 1.08s

18: learn: 4711.4277054 test: 4741.6887190 best: 4741.6887190 (18) total: 255ms remaining: 1.09s
19: learn: 4630.3209759 test: 4660.2165767 best: 4660.2165767 (19) total: 267ms remaining: 1.07s
20: learn: 4553.4687273 test: 4583.3045238 best: 4583.3045238 (20) total: 282ms remaining: 1.06s
21: learn: 4479.7470879 test: 4509.3135712 best: 4509.3135712 (21) total: 294ms remaining: 1.04s
22: learn: 4407.2110327 test: 4436.6657420 best: 4436.6657420 (22) total: 306ms remaining: 1.02s
23: learn: 4336.8476236 test: 4365.8373908 best: 4365.8373908 (23) total: 318ms remaining: 1s
24: learn: 4269.2015251 test: 4297.7442105 best: 4297.7442105 (24) total: 330ms remaining: 990ms
25: learn: 4204.0441805 test: 4232.1716796 best: 4232.1716796 (25) total: 343ms remaining: 977ms
26: learn: 4143.5119537 test: 4171.3513482 best: 4171.3513482 (26) total: 357ms remaining: 965ms
27: learn: 4083.3301481 test: 4110.8585949 best: 4110.8585949 (27) total: 371ms remaining: 955ms
28: learn: 4025.9010598 test: 4052.9445974 best: 4052.9445974 (28) total: 384ms remaining: 941ms
29: learn: 3971.4687672 test: 3997.9968060 best: 3997.9968060 (29) total: 396ms remaining: 924ms
30: learn: 3920.0999747 test: 3946.1706159 best: 3946.1706159 (30) total: 408ms remaining: 908ms
31: learn: 3870.1792045 test: 3896.0487867 best: 3896.0487867 (31) total: 420ms remaining: 893ms
32: learn: 3823.3226027 test: 3848.7680290 best: 3848.7680290 (32) total: 433ms remaining: 879ms
33: learn: 3775.5823838 test: 3800.6574857 best: 3800.6574857 (33) total: 450ms remaining: 874ms
34: learn: 3729.2739325 test: 3754.0249045 best: 3754.0249045 (34) total: 462ms remaining: 858ms
35: learn: 3687.6345539 test: 3712.0445572 best: 3712.0445572 (35) total: 475ms remaining: 844ms
36: learn: 3645.5031611 test: 3669.4565709 best: 3669.4565709 (36) total: 487ms remaining: 829ms
37: learn: 3605.0939022 test: 3628.9751527 best: 3628.9751527 (37) total: 499ms remaining: 814ms
38: learn: 3566.7095631 test: 3590.3014739 best: 3590.3014739 (38) total: 512ms remaining: 801ms
39: learn: 3530.0981068 test: 3553.2063510 best: 3553.2063510 (39) total: 524ms remaining: 787ms
40: learn: 3494.2024389 test: 3517.0009833 best: 3517.0009833 (40) total: 537ms remaining: 773ms
41: learn: 3459.1896322 test: 3481.7632167 best: 3481.7632167 (41) total: 551ms remaining: 762ms
42: learn: 3426.9637323 test: 3448.9958558 best: 3448.9958558 (42) total: 564ms remaining: 748ms
43: learn: 3395.9214971 test: 3417.4955054 best: 3417.4955054 (43) total: 576ms remaining: 733ms
44: learn: 3364.3270788 test: 3385.7847784 best: 3385.7847784 (44) total: 588ms remaining: 719ms
45: learn: 3332.6393484 test: 3353.3919711 best: 3353.3919711 (45) total: 602ms remaining: 707ms
46: learn: 3301.9143820 test: 3322.0454930 best: 3322.0454930 (46) total: 615ms remaining: 693ms
47: learn: 3275.2063923 test: 3295.0390609 best: 3295.0390609 (47) total: 628ms remaining: 681ms
48: learn: 3247.4336946 test: 3266.5834781 best: 3266.5834781 (48) total: 647ms remaining: 674ms
49: learn: 3221.9619252 test: 3240.5180548 best: 3240.5180548 (49) total: 661ms remaining: 661ms
50: learn: 3196.3863637 test: 3214.8070233 best: 3214.8070233 (50) total: 677ms remaining: 650ms
51: learn: 3173.3052330 test: 3191.1152554 best: 3191.1152554 (51) total: 694ms remaining: 641ms
52: learn: 3148.2599703 test: 3165.7286062 best: 3165.7286062 (52) total: 706ms remaining: 626ms
53: learn: 3125.0713919 test: 3142.0177585 best: 3142.0177585 (53) total: 718ms remaining: 612ms
54: learn: 3102.3058492 test: 3118.9793848 best: 3118.9793848 (54) total: 731ms remaining: 598ms
55: learn: 3080.7233650 test: 3097.2489787 best: 3097.2489787 (55) total: 746ms remaining: 586ms
56: learn: 3060.5428885 test: 3076.6576617 best: 3076.6576617 (56) total: 760ms remaining: 573ms
57: learn: 3040.4061165 test: 3055.9617254 best: 3055.9617254 (57) total: 772ms remaining: 559ms
58: learn: 3021.4535372 test: 3036.5863924 best: 3036.5863924 (58) total: 785ms remaining: 546ms

59: learn: 3004.0520502 test: 3018.7413037 best: 3018.7413037 (59) total: 798ms remaining: 532ms
60: learn: 2987.5754737 test: 3001.7018751 best: 3001.7018751 (60) total: 811ms remaining: 518ms
61: learn: 2971.2003215 test: 2985.0660880 best: 2985.0660880 (61) total: 824ms remaining: 505ms
62: learn: 2954.0145453 test: 2967.7288490 best: 2967.7288490 (62) total: 837ms remaining: 491ms
63: learn: 2936.9262333 test: 2950.2372298 best: 2950.2372298 (63) total: 853ms remaining: 480ms
64: learn: 2922.8644336 test: 2935.6988132 best: 2935.6988132 (64) total: 866ms remaining: 466ms
65: learn: 2907.2744549 test: 2919.7770000 best: 2919.7770000 (65) total: 878ms remaining: 452ms
66: learn: 2892.8014625 test: 2904.8875915 best: 2904.8875915 (66) total: 891ms remaining: 439ms
67: learn: 2878.7125477 test: 2890.2517120 best: 2890.2517120 (67) total: 903ms remaining: 425ms
68: learn: 2864.5961320 test: 2875.9880786 best: 2875.9880786 (68) total: 915ms remaining: 411ms
69: learn: 2851.6488351 test: 2862.6444933 best: 2862.6444933 (69) total: 928ms remaining: 398ms
70: learn: 2839.2595660 test: 2849.7950302 best: 2849.7950302 (70) total: 943ms remaining: 385ms
71: learn: 2826.6643094 test: 2837.0511386 best: 2837.0511386 (71) total: 955ms remaining: 371ms
72: learn: 2815.0328164 test: 2825.0212881 best: 2825.0212881 (72) total: 967ms remaining: 358ms
73: learn: 2804.1414714 test: 2813.7667392 best: 2813.7667392 (73) total: 979ms remaining: 344ms
74: learn: 2793.1586488 test: 2802.4819714 best: 2802.4819714 (74) total: 991ms remaining: 330ms
75: learn: 2782.9577984 test: 2791.8488840 best: 2791.8488840 (75) total: 1s remaining: 317ms
76: learn: 2772.0199020 test: 2780.6435047 best: 2780.6435047 (76) total: 1.01s remaining: 303ms
77: learn: 2762.5561721 test: 2770.8530807 best: 2770.8530807 (77) total: 1.03s remaining: 290ms
78: learn: 2751.4896977 test: 2759.6162905 best: 2759.6162905 (78) total: 1.04s remaining: 278ms
79: learn: 2741.7064505 test: 2749.5514589 best: 2749.5514589 (79) total: 1.06s remaining: 265ms
80: learn: 2732.9793399 test: 2740.4373410 best: 2740.4373410 (80) total: 1.07s remaining: 251ms
81: learn: 2724.4017830 test: 2731.4107217 best: 2731.4107217 (81) total: 1.08s remaining: 238ms
82: learn: 2716.2612429 test: 2722.8157114 best: 2722.8157114 (82) total: 1.09s remaining: 224ms
83: learn: 2708.5911241 test: 2714.8235196 best: 2714.8235196 (83) total: 1.11s remaining: 211ms
84: learn: 2701.0740558 test: 2706.8254648 best: 2706.8254648 (84) total: 1.12s remaining: 197ms
85: learn: 2693.3582528 test: 2699.1621922 best: 2699.1621922 (85) total: 1.13s remaining: 184ms
86: learn: 2686.1014551 test: 2691.6318452 best: 2691.6318452 (86) total: 1.15s remaining: 172ms
87: learn: 2679.3324759 test: 2684.5528448 best: 2684.5528448 (87) total: 1.16s remaining: 158ms
88: learn: 2671.9798173 test: 2677.0973419 best: 2677.0973419 (88) total: 1.17s remaining: 145ms
89: learn: 2664.9816041 test: 2669.8296852 best: 2669.8296852 (89) total: 1.18s remaining: 132ms
90: learn: 2658.2008701 test: 2663.1156196 best: 2663.1156196 (90) total: 1.2s remaining: 118ms
91: learn: 2651.9722257 test: 2656.5909059 best: 2656.5909059 (91) total: 1.21s remaining: 105ms
92: learn: 2645.7770137 test: 2650.2756161 best: 2650.2756161 (92) total: 1.22s remaining: 91.9ms
93: learn: 2640.0874568 test: 2644.6575238 best: 2644.6575238 (93) total: 1.23s remaining: 78.6ms
94: learn: 2634.4651233 test: 2638.7888109 best: 2638.7888109 (94) total: 1.25s remaining: 65.6ms
95: learn: 2628.8227259 test: 2632.9332807 best: 2632.9332807 (95) total: 1.26s remaining: 52.4ms
96: learn: 2622.1375095 test: 2626.1386910 best: 2626.1386910 (96) total: 1.27s remaining: 39.3ms
97: learn: 2616.5218979 test: 2620.4214619 best: 2620.4214619 (97) total: 1.28s remaining: 26.2ms
98: learn: 2611.1087651 test: 2614.7039985 best: 2614.7039985 (98) total: 1.29s remaining: 13.1ms
99: learn: 2603.5652585 test: 2607.0340197 best: 2607.0340197 (99) total: 1.3s remaining: 0us

bestTest = 2607.03402

bestIteration = 99

4: loss: 2607.0340197 best: 2131.1867154 (1) total: 7.93s remaining: 2m 24s
0: learn: 6448.8660194 test: 6477.8364241 best: 6477.8364241 (0) total: 13.4ms remaining: 1.33s
1: learn: 5970.9342790 test: 5999.9621843 best: 5999.9621843 (1) total: 30.1ms remaining: 1.47s
2: learn: 5555.1842372 test: 5583.5546055 best: 5583.5546055 (2) total: 42.9ms remaining: 1.39s
3: learn: 5181.2337691 test: 5210.8554060 best: 5210.8554060 (3) total: 55.8ms remaining: 1.34s
4: learn: 4854.4573450 test: 4885.1218831 best: 4885.1218831 (4) total: 68.3ms remaining: 1.3s
5: learn: 4567.5384870 test: 4597.2814540 best: 4597.2814540 (5) total: 80.4ms remaining: 1.26s
6: learn: 4324.0912118 test: 4352.9233470 best: 4352.9233470 (6) total: 93.1ms remaining: 1.24s
7: learn: 4104.7492445 test: 4131.8941088 best: 4131.8941088 (7) total: 105ms remaining: 1.21s
8: learn: 3917.2416255 test: 3943.3309030 best: 3943.3309030 (8) total: 121ms remaining: 1.22s
9: learn: 3748.7135575 test: 3774.6366654 best: 3774.6366654 (9) total: 137ms remaining: 1.23s
10: learn: 3605.2716440 test: 3629.5938628 best: 3629.5938628 (10) total: 152ms remaining: 1.23s
11: learn: 3476.4697954 test: 3500.4368465 best: 3500.4368465 (11) total: 168ms remaining: 1.23s
12: learn: 3370.2508217 test: 3392.7467999 best: 3392.7467999 (12) total: 182ms remaining: 1.22s
13: learn: 3264.2944409 test: 3284.5871723 best: 3284.5871723 (13) total: 197ms remaining: 1.21s
14: learn: 3174.2180488 test: 3192.5331580 best: 3192.5331580 (14) total: 216ms remaining: 1.22s
15: learn: 3100.6727080 test: 3117.6960803 best: 3117.6960803 (15) total: 232ms remaining: 1.22s
16: learn: 3028.0646584 test: 3043.8083255 best: 3043.8083255 (16) total: 248ms remaining: 1.21s
17: learn: 2968.0803248 test: 2982.1718003 best: 2982.1718003 (17) total: 264ms remaining: 1.2s
18: learn: 2912.6302456 test: 2926.2381014 best: 2926.2381014 (18) total: 279ms remaining: 1.19s
19: learn: 2867.7308415 test: 2879.7466140 best: 2879.7466140 (19) total: 294ms remaining: 1.18s
20: learn: 2822.7834827 test: 2833.8196493 best: 2833.8196493 (20) total: 309ms remaining: 1.16s
21: learn: 2786.5264777 test: 2796.6581675 best: 2796.6581675 (21) total: 323ms remaining: 1.14s
22: learn: 2752.8017125 test: 2761.3986304 best: 2761.3986304 (22) total: 336ms remaining: 1.12s
23: learn: 2725.2794207 test: 2732.7028259 best: 2732.7028259 (23) total: 347ms remaining: 1.1s
24: learn: 2699.6380469 test: 2706.2665388 best: 2706.2665388 (24) total: 360ms remaining: 1.08s
25: learn: 2676.8276406 test: 2682.3869761 best: 2682.3869761 (25) total: 372ms remaining: 1.06s
26: learn: 2655.0355757 test: 2659.0291816 best: 2659.0291816 (26) total: 384ms remaining: 1.04s
27: learn: 2635.0693174 test: 2638.6718459 best: 2638.6718459 (27) total: 398ms remaining: 1.02s
28: learn: 2608.4577351 test: 2611.5881214 best: 2611.5881214 (28) total: 416ms remaining: 1.02s
29: learn: 2588.9311005 test: 2592.2045634 best: 2592.2045634 (29) total: 428ms remaining: 998ms
30: learn: 2573.4180022 test: 2575.6118773 best: 2575.6118773 (30) total: 440ms remaining: 979ms
31: learn: 2558.0604760 test: 2559.6341030 best: 2559.6341030 (31) total: 452ms remaining: 959ms
32: learn: 2542.9038772 test: 2544.6429087 best: 2544.6429087 (32) total: 463ms remaining: 940ms
33: learn: 2529.2379851 test: 2530.7955862 best: 2530.7955862 (33) total: 476ms remaining: 923ms
34: learn: 2510.4196279 test: 2511.5534981 best: 2511.5534981 (34) total: 488ms remaining: 906ms
35: learn: 2498.3514586 test: 2498.9317735 best: 2498.9317735 (35) total: 501ms remaining: 890ms
36: learn: 2486.0429534 test: 2485.5087440 best: 2485.5087440 (36) total: 516ms remaining: 878ms

37: learn: 2474.5465559 test: 2474.2834447 best: 2474.2834447 (37) total: 528ms remaining: 861ms
38: learn: 2464.0499683 test: 2463.5002007 best: 2463.5002007 (38) total: 540ms remaining: 845ms
39: learn: 2454.0388325 test: 2453.1352706 best: 2453.1352706 (39) total: 553ms remaining: 829ms
40: learn: 2443.8230278 test: 2441.8092085 best: 2441.8092085 (40) total: 566ms remaining: 814ms
41: learn: 2428.8710165 test: 2426.6577871 best: 2426.6577871 (41) total: 577ms remaining: 797ms
42: learn: 2419.4746213 test: 2417.6853477 best: 2417.6853477 (42) total: 588ms remaining: 780ms
43: learn: 2410.8770073 test: 2409.3484688 best: 2409.3484688 (43) total: 600ms remaining: 764ms
44: learn: 2398.7468938 test: 2396.8899079 best: 2396.8899079 (44) total: 617ms remaining: 755ms
45: learn: 2390.1956876 test: 2388.3236841 best: 2388.3236841 (45) total: 630ms remaining: 739ms
46: learn: 2381.9573950 test: 2379.5657810 best: 2379.5657810 (46) total: 642ms remaining: 724ms
47: learn: 2373.5346331 test: 2370.6485130 best: 2370.6485130 (47) total: 654ms remaining: 708ms
48: learn: 2366.3739225 test: 2362.4753797 best: 2362.4753797 (48) total: 666ms remaining: 693ms
49: learn: 2359.2774851 test: 2355.0926094 best: 2355.0926094 (49) total: 677ms remaining: 677ms
50: learn: 2348.9405158 test: 2344.5635406 best: 2344.5635406 (50) total: 689ms remaining: 662ms
51: learn: 2342.6826197 test: 2338.6308206 best: 2338.6308206 (51) total: 701ms remaining: 647ms
52: learn: 2336.5152886 test: 2332.2018972 best: 2332.2018972 (52) total: 714ms remaining: 633ms
53: learn: 2330.5685730 test: 2326.4060101 best: 2326.4060101 (53) total: 727ms remaining: 619ms
54: learn: 2325.1131893 test: 2321.1703287 best: 2321.1703287 (54) total: 739ms remaining: 605ms
55: learn: 2316.8317628 test: 2312.5998012 best: 2312.5998012 (55) total: 752ms remaining: 591ms
56: learn: 2311.1918510 test: 2306.6945459 best: 2306.6945459 (56) total: 767ms remaining: 579ms
57: learn: 2305.9642938 test: 2301.0934255 best: 2301.0934255 (57) total: 779ms remaining: 564ms
58: learn: 2297.3126003 test: 2292.2673245 best: 2292.2673245 (58) total: 790ms remaining: 549ms
59: learn: 2292.7481592 test: 2287.5925486 best: 2287.5925486 (59) total: 802ms remaining: 535ms
60: learn: 2287.8233865 test: 2282.9482284 best: 2282.9482284 (60) total: 819ms remaining: 523ms
61: learn: 2282.5635770 test: 2277.4405073 best: 2277.4405073 (61) total: 830ms remaining: 509ms
62: learn: 2276.8513470 test: 2270.8057290 best: 2270.8057290 (62) total: 842ms remaining: 494ms
63: learn: 2271.1072033 test: 2264.9882898 best: 2264.9882898 (63) total: 853ms remaining: 480ms
64: learn: 2264.6602767 test: 2258.3805140 best: 2258.3805140 (64) total: 865ms remaining: 466ms
65: learn: 2260.2703615 test: 2254.1303399 best: 2254.1303399 (65) total: 878ms remaining: 452ms
66: learn: 2256.1689544 test: 2250.3494160 best: 2250.3494160 (66) total: 890ms remaining: 438ms
67: learn: 2251.9778330 test: 2245.6013008 best: 2245.6013008 (67) total: 902ms remaining: 424ms
68: learn: 2246.8005998 test: 2240.0363760 best: 2240.0363760 (68) total: 916ms remaining: 412ms
69: learn: 2242.7425231 test: 2235.8313493 best: 2235.8313493 (69) total: 928ms remaining: 398ms
70: learn: 2239.1794722 test: 2232.3638630 best: 2232.3638630 (70) total: 941ms remaining: 384ms
71: learn: 2233.6552240 test: 2226.5827706 best: 2226.5827706 (71) total: 953ms remaining: 371ms
72: learn: 2230.2368344 test: 2223.3987848 best: 2223.3987848 (72) total: 965ms remaining: 357ms
73: learn: 2225.2404505 test: 2218.0547883 best: 2218.0547883 (73) total: 977ms remaining: 343ms
74: learn: 2220.3086410 test: 2212.8944224 best: 2212.8944224 (74) total: 989ms remaining: 330ms
75: learn: 2216.0798848 test: 2208.8554586 best: 2208.8554586 (75) total: 1s remaining: 316ms
76: learn: 2212.0632547 test: 2205.0572467 best: 2205.0572467 (76) total: 1.02s remaining: 304ms
77: learn: 2208.8251667 test: 2201.9964009 best: 2201.9964009 (77) total: 1.03s remaining: 290ms

78: learn: 2204.3392645 test: 2197.2777386 best: 2197.2777386 (78) total: 1.04s remaining: 277ms
79: learn: 2200.0593251 test: 2192.6829553 best: 2192.6829553 (79) total: 1.05s remaining: 263ms
80: learn: 2197.0780005 test: 2189.2260767 best: 2189.2260767 (80) total: 1.06s remaining: 250ms
81: learn: 2192.7772901 test: 2184.8038351 best: 2184.8038351 (81) total: 1.08s remaining: 237ms
82: learn: 2190.1580529 test: 2182.2569003 best: 2182.2569003 (82) total: 1.09s remaining: 223ms
83: learn: 2186.9168468 test: 2178.8513312 best: 2178.8513312 (83) total: 1.1s remaining: 210ms
84: learn: 2183.2181802 test: 2174.9774417 best: 2174.9774417 (84) total: 1.12s remaining: 197ms
85: learn: 2180.1895869 test: 2172.2273303 best: 2172.2273303 (85) total: 1.13s remaining: 184ms
86: learn: 2177.3569733 test: 2169.5111910 best: 2169.5111910 (86) total: 1.14s remaining: 171ms
87: learn: 2174.2641186 test: 2166.3832914 best: 2166.3832914 (87) total: 1.16s remaining: 158ms
88: learn: 2171.4564107 test: 2163.6626554 best: 2163.6626554 (88) total: 1.17s remaining: 145ms
89: learn: 2168.9980286 test: 2161.0332417 best: 2161.0332417 (89) total: 1.18s remaining: 131ms
90: learn: 2165.8052852 test: 2157.6615281 best: 2157.6615281 (90) total: 1.19s remaining: 118ms
91: learn: 2163.3840589 test: 2155.6092295 best: 2155.6092295 (91) total: 1.21s remaining: 105ms
92: learn: 2159.5230693 test: 2151.6657720 best: 2151.6657720 (92) total: 1.23s remaining: 92.2ms
93: learn: 2156.2327310 test: 2148.1079908 best: 2148.1079908 (93) total: 1.24s remaining: 79.1ms
94: learn: 2153.2920195 test: 2145.3250546 best: 2145.3250546 (94) total: 1.25s remaining: 65.9ms
95: learn: 2150.7861853 test: 2142.7683209 best: 2142.7683209 (95) total: 1.26s remaining: 52.7ms
96: learn: 2146.7089055 test: 2138.4528637 best: 2138.4528637 (96) total: 1.28s remaining: 39.5ms
97: learn: 2144.0230096 test: 2135.9730379 best: 2135.9730379 (97) total: 1.29s remaining: 26.3ms
98: learn: 2141.6956725 test: 2133.9308677 best: 2133.9308677 (98) total: 1.3s remaining: 13.2ms
99: learn: 2139.0768243 test: 2131.2673082 best: 2131.2673082 (99) total: 1.32s remaining: 0us

bestTest = 2131.267308

bestIteration = 99

5: loss: 2131.2673082 best: 2131.1867154 (1) total: 9.28s remaining: 2m 19s
0: learn: 6820.7590353 test: 6849.1135744 best: 6849.1135744 (0) total: 13.7ms remaining: 1.35s
1: learn: 6663.6932329 test: 6692.2640438 best: 6692.2640438 (1) total: 26.5ms remaining: 1.3s
2: learn: 6512.0428905 test: 6540.7449703 best: 6540.7449703 (2) total: 40.5ms remaining: 1.31s
3: learn: 6366.0716347 test: 6395.0569776 best: 6395.0569776 (3) total: 54.7ms remaining: 1.31s
4: learn: 6224.3254379 test: 6253.6482471 best: 6253.6482471 (4) total: 73.7ms remaining: 1.4s
5: learn: 6088.9682070 test: 6118.3477431 best: 6118.3477431 (5) total: 86.5ms remaining: 1.35s
6: learn: 5958.7347170 test: 5988.2257069 best: 5988.2257069 (6) total: 99.5ms remaining: 1.32s
7: learn: 5833.2068424 test: 5862.4829048 best: 5862.4829048 (7) total: 112ms remaining: 1.29s
8: learn: 5710.1836259 test: 5739.8734584 best: 5739.8734584 (8) total: 125ms remaining: 1.26s
9: learn: 5591.9590001 test: 5622.0324291 best: 5622.0324291 (9) total: 138ms remaining: 1.24s
10: learn: 5478.5325199 test: 5509.0158694 best: 5509.0158694 (10) total: 151ms remaining: 1.22s
11: learn: 5369.5663868 test: 5400.2246961 best: 5400.2246961 (11) total: 164ms remaining: 1.2s
12: learn: 5264.8347468 test: 5295.8427862 best: 5295.8427862 (12) total: 179ms remaining: 1.2s
13: learn: 5164.0310665 test: 5194.9372658 best: 5194.9372658 (13) total: 192ms remaining: 1.18s

14: learn: 5065.2620189 test: 5095.7946377 best: 5095.7946377 (14) total: 205ms remaining: 1.16s
15: learn: 4971.7921689 test: 5002.2088352 best: 5002.2088352 (15) total: 217ms remaining: 1.14s
16: learn: 4882.2632217 test: 4912.6905323 best: 4912.6905323 (16) total: 230ms remaining: 1.12s
17: learn: 4794.8665748 test: 4825.4412697 best: 4825.4412697 (17) total: 242ms remaining: 1.1s
18: learn: 4711.5788960 test: 4741.8394458 best: 4741.8394458 (18) total: 255ms remaining: 1.09s
19: learn: 4630.4784758 test: 4660.3737280 best: 4660.3737280 (19) total: 274ms remaining: 1.1s
20: learn: 4553.6269064 test: 4583.4623816 best: 4583.4623816 (20) total: 287ms remaining: 1.08s
21: learn: 4479.9042009 test: 4509.4704108 best: 4509.4704108 (21) total: 300ms remaining: 1.06s
22: learn: 4407.3675250 test: 4436.8220029 best: 4436.8220029 (22) total: 312ms remaining: 1.04s
23: learn: 4337.0122921 test: 4366.0020529 best: 4366.0020529 (23) total: 325ms remaining: 1.03s
24: learn: 4269.3661569 test: 4297.9088954 best: 4297.9088954 (24) total: 337ms remaining: 1.01s
25: learn: 4204.2083784 test: 4232.3359923 best: 4232.3359923 (25) total: 351ms remaining: 999ms
26: learn: 4143.6775295 test: 4171.5170979 best: 4171.5170979 (26) total: 364ms remaining: 985ms
27: learn: 4083.5029527 test: 4111.0318715 best: 4111.0318715 (27) total: 377ms remaining: 970ms
28: learn: 4026.0725991 test: 4053.1166750 best: 4053.1166750 (28) total: 389ms remaining: 953ms
29: learn: 3971.6386496 test: 3998.1672898 best: 3998.1672898 (29) total: 402ms remaining: 937ms
30: learn: 3920.2709916 test: 3946.3423636 best: 3946.3423636 (30) total: 414ms remaining: 922ms
31: learn: 3870.3478505 test: 3896.2182261 best: 3896.2182261 (31) total: 427ms remaining: 906ms
32: learn: 3823.4907089 test: 3848.9369546 best: 3848.9369546 (32) total: 441ms remaining: 895ms
33: learn: 3775.7568762 test: 3800.8330261 best: 3800.8330261 (33) total: 453ms remaining: 879ms
34: learn: 3729.4471021 test: 3754.1991926 best: 3754.1991926 (34) total: 472ms remaining: 876ms
35: learn: 3687.8062508 test: 3712.2174283 best: 3712.2174283 (35) total: 484ms remaining: 860ms
36: learn: 3645.6789478 test: 3669.6338640 best: 3669.6338640 (36) total: 496ms remaining: 844ms
37: learn: 3605.2695935 test: 3629.1523674 best: 3629.1523674 (37) total: 509ms remaining: 830ms
38: learn: 3566.8819547 test: 3590.4754605 best: 3590.4754605 (38) total: 524ms remaining: 820ms
39: learn: 3530.2667262 test: 3553.3766121 best: 3553.3766121 (39) total: 537ms remaining: 805ms
40: learn: 3494.3715167 test: 3517.1717209 best: 3517.1717209 (40) total: 549ms remaining: 790ms
41: learn: 3459.3576760 test: 3481.9329925 best: 3481.9329925 (41) total: 561ms remaining: 775ms
42: learn: 3427.1279676 test: 3449.1618650 best: 3449.1618650 (42) total: 578ms remaining: 767ms
43: learn: 3396.0819847 test: 3417.6578012 best: 3417.6578012 (43) total: 591ms remaining: 752ms
44: learn: 3364.4873534 test: 3385.9468701 best: 3385.9468701 (44) total: 603ms remaining: 737ms
45: learn: 3332.7984658 test: 3353.5529941 best: 3353.5529941 (45) total: 615ms remaining: 723ms
46: learn: 3302.0722748 test: 3322.2053810 best: 3322.2053810 (46) total: 628ms remaining: 708ms
47: learn: 3275.3607688 test: 3295.1954971 best: 3295.1954971 (47) total: 643ms remaining: 697ms
48: learn: 3247.5866773 test: 3266.7386016 best: 3266.7386016 (48) total: 657ms remaining: 683ms
49: learn: 3222.1156195 test: 3240.6740616 best: 3240.6740616 (49) total: 670ms remaining: 670ms
50: learn: 3196.5397194 test: 3214.9626974 best: 3214.9626974 (50) total: 683ms remaining: 656ms
51: learn: 3173.4552995 test: 3191.2676776 best: 3191.2676776 (51) total: 696ms remaining: 643ms
52: learn: 3148.4080200 test: 3165.8790643 best: 3165.8790643 (52) total: 709ms remaining: 629ms
53: learn: 3125.2180783 test: 3142.1669782 best: 3142.1669782 (53) total: 722ms remaining: 615ms
54: learn: 3102.4504314 test: 3119.1265564 best: 3119.1265564 (54) total: 736ms remaining: 602ms
55: learn: 3080.8675002 test: 3097.3957086 best: 3097.3957086 (55) total: 750ms remaining: 590ms

55: learn: 3050.3873002 test: 3057.3557058 best: 3057.3557058 (55) total: 750ms remaining: 550ms
56: learn: 3060.6881997 test: 3076.8055858 best: 3076.8055858 (56) total: 767ms remaining: 579ms
57: learn: 3040.5496095 test: 3056.1078966 best: 3056.1078966 (57) total: 780ms remaining: 565ms
58: learn: 3021.5969229 test: 3036.7325722 best: 3036.7325722 (58) total: 793ms remaining: 551ms
59: learn: 3004.1924280 test: 3018.8844808 best: 3018.8844808 (59) total: 805ms remaining: 537ms
60: learn: 2987.7125715 test: 3001.8417879 best: 3001.8417879 (60) total: 817ms remaining: 523ms
61: learn: 2971.3372247 test: 2985.2058142 best: 2985.2058142 (61) total: 830ms remaining: 508ms
62: learn: 2954.1509465 test: 2967.8680709 best: 2967.8680709 (62) total: 845ms remaining: 496ms
63: learn: 2937.0603996 test: 2950.3742481 best: 2950.3742481 (63) total: 858ms remaining: 482ms
64: learn: 2922.9957008 test: 2935.8329355 best: 2935.8329355 (64) total: 872ms remaining: 470ms
65: learn: 2907.4034729 test: 2919.9089146 best: 2919.9089146 (65) total: 885ms remaining: 456ms
66: learn: 2892.9286351 test: 2905.0177045 best: 2905.0177045 (66) total: 898ms remaining: 442ms
67: learn: 2878.8400837 test: 2890.3822486 best: 2890.3822486 (67) total: 910ms remaining: 428ms
68: learn: 2864.7232322 test: 2876.1181699 best: 2876.1181699 (68) total: 922ms remaining: 414ms
69: learn: 2851.7764759 test: 2862.7753826 best: 2862.7753826 (69) total: 934ms remaining: 400ms
70: learn: 2839.3866972 test: 2849.9253714 best: 2849.9253714 (70) total: 948ms remaining: 387ms
71: learn: 2826.7908917 test: 2837.1809234 best: 2837.1809234 (71) total: 965ms remaining: 375ms
72: learn: 2815.1591329 test: 2825.1510844 best: 2825.1510844 (72) total: 977ms remaining: 361ms
73: learn: 2804.2649923 test: 2813.8937369 best: 2813.8937369 (73) total: 989ms remaining: 347ms
74: learn: 2793.2808584 test: 2802.6077096 best: 2802.6077096 (74) total: 1s remaining: 334ms
75: learn: 2783.0802495 test: 2791.9753840 best: 2791.9753840 (75) total: 1.01s remaining: 320ms
76: learn: 2772.1403911 test: 2780.7680485 best: 2780.7680485 (76) total: 1.03s remaining: 307ms
77: learn: 2762.6745525 test: 2770.9755054 best: 2770.9755054 (77) total: 1.04s remaining: 293ms
78: learn: 2751.6085963 test: 2759.7392281 best: 2759.7392281 (78) total: 1.05s remaining: 280ms
79: learn: 2741.8231598 test: 2749.6722207 best: 2749.6722207 (79) total: 1.07s remaining: 267ms
80: learn: 2733.0949899 test: 2740.5571967 best: 2740.5571967 (80) total: 1.08s remaining: 253ms
81: learn: 2724.5164566 test: 2731.5295492 best: 2731.5295492 (81) total: 1.09s remaining: 240ms
82: learn: 2716.3755848 test: 2722.9343006 best: 2722.9343006 (82) total: 1.11s remaining: 227ms
83: learn: 2708.7044042 test: 2714.9412120 best: 2714.9412120 (83) total: 1.12s remaining: 213ms
84: learn: 2701.1863716 test: 2706.9422291 best: 2706.9422291 (84) total: 1.13s remaining: 200ms
85: learn: 2693.4725130 test: 2699.2805506 best: 2699.2805506 (85) total: 1.15s remaining: 187ms
86: learn: 2686.2143990 test: 2691.7488434 best: 2691.7488434 (86) total: 1.17s remaining: 174ms
87: learn: 2679.4439816 test: 2684.6683744 best: 2684.6683744 (87) total: 1.18s remaining: 161ms
88: learn: 2672.0936891 test: 2677.2152703 best: 2677.2152703 (88) total: 1.19s remaining: 147ms
89: learn: 2665.0938425 test: 2669.9459621 best: 2669.9459621 (89) total: 1.2s remaining: 134ms
90: learn: 2658.3149214 test: 2663.2333870 best: 2663.2333870 (90) total: 1.22s remaining: 120ms
91: learn: 2652.0860637 test: 2656.7087719 best: 2656.7087719 (91) total: 1.23s remaining: 107ms
92: learn: 2645.8920989 test: 2650.3949524 best: 2650.3949524 (92) total: 1.24s remaining: 93.3ms
93: learn: 2640.2055669 test: 2644.7795236 best: 2644.7795236 (93) total: 1.25s remaining: 79.9ms
94: learn: 2634.5822180 test: 2638.9097419 best: 2638.9097419 (94) total: 1.27s remaining: 66.6ms
95: learn: 2628.9453815 test: 2633.0594532 best: 2633.0594532 (95) total: 1.28s remaining: 53.3ms
96: learn: 2622.2623601 test: 2626.2670968 best: 2626.2670968 (96) total: 1.29s remaining: 39.9ms

97: learn: 2616.6478179 test: 2620.5511369 best: 2620.5511369 (97) total: 1.3s remaining: 26.6ms
98: learn: 2611.2342910 test: 2614.8334932 best: 2614.8334932 (98) total: 1.31s remaining: 13.3ms
99: learn: 2603.6912229 test: 2607.1639368 best: 2607.1639368 (99) total: 1.33s remaining: 0us

bestTest = 2607.163937

bestIteration = 99

6: loss: 2607.1639368 best: 2131.1867154 (1) total: 10.6s remaining: 2m 15s
0: learn: 6448.9150301 test: 6477.8851884 best: 6477.8851884 (0) total: 13.5ms remaining: 1.33s
1: learn: 5971.0146696 test: 6000.0423505 best: 6000.0423505 (1) total: 29.1ms remaining: 1.43s
2: learn: 5555.2823313 test: 5583.6525361 best: 5583.6525361 (2) total: 41.3ms remaining: 1.34s
3: learn: 5181.3565742 test: 5210.9779311 best: 5210.9779311 (3) total: 53.4ms remaining: 1.28s
4: learn: 4854.6029785 test: 4885.2670766 best: 4885.2670766 (4) total: 65.4ms remaining: 1.24s
5: learn: 4567.6982232 test: 4597.4409784 best: 4597.4409784 (5) total: 77.3ms remaining: 1.21s
6: learn: 4324.2567991 test: 4353.0888750 best: 4353.0888750 (6) total: 89.6ms remaining: 1.19s
7: learn: 4104.9133034 test: 4132.0583227 best: 4132.0583227 (7) total: 101ms remaining: 1.17s
8: learn: 3917.4187676 test: 3943.5088142 best: 3943.5088142 (8) total: 114ms remaining: 1.16s
9: learn: 3748.9005280 test: 3774.8239351 best: 3774.8239351 (9) total: 129ms remaining: 1.16s
10: learn: 3605.4444353 test: 3629.7671612 best: 3629.7671612 (10) total: 141ms remaining: 1.14s
11: learn: 3476.6412856 test: 3500.6089368 best: 3500.6089368 (11) total: 154ms remaining: 1.13s
12: learn: 3370.4173798 test: 3392.9140551 best: 3392.9140551 (12) total: 166ms remaining: 1.11s
13: learn: 3264.4564049 test: 3284.7501516 best: 3284.7501516 (13) total: 179ms remaining: 1.1s
14: learn: 3174.3866166 test: 3192.7047473 best: 3192.7047473 (14) total: 191ms remaining: 1.08s
15: learn: 3100.8278367 test: 3117.8543560 best: 3117.8543560 (15) total: 204ms remaining: 1.07s
16: learn: 3028.2119484 test: 3043.9588577 best: 3043.9588577 (16) total: 223ms remaining: 1.09s
17: learn: 2968.2306601 test: 2982.3258033 best: 2982.3258033 (17) total: 235ms remaining: 1.07s
18: learn: 2912.7785268 test: 2926.3900866 best: 2926.3900866 (18) total: 248ms remaining: 1.05s
19: learn: 2867.8675260 test: 2879.8870322 best: 2879.8870322 (19) total: 261ms remaining: 1.04s
20: learn: 2822.9117641 test: 2833.9517711 best: 2833.9517711 (20) total: 273ms remaining: 1.03s
21: learn: 2786.6512090 test: 2796.7868976 best: 2796.7868976 (21) total: 285ms remaining: 1.01s
22: learn: 2752.9234195 test: 2761.5250738 best: 2761.5250738 (22) total: 297ms remaining: 995ms
23: learn: 2725.3976446 test: 2732.8266611 best: 2732.8266611 (23) total: 309ms remaining: 979ms
24: learn: 2699.7473943 test: 2706.3814776 best: 2706.3814776 (24) total: 324ms remaining: 971ms
25: learn: 2676.9339049 test: 2682.4987691 best: 2682.4987691 (25) total: 336ms remaining: 955ms
26: learn: 2655.1388104 test: 2659.1381224 best: 2659.1381224 (26) total: 347ms remaining: 939ms
27: learn: 2635.1758662 test: 2638.7847925 best: 2638.7847925 (27) total: 360ms remaining: 925ms
28: learn: 2608.5669294 test: 2611.7036449 best: 2611.7036449 (28) total: 372ms remaining: 911ms
29: learn: 2589.0459703 test: 2592.3248460 best: 2592.3248460 (29) total: 384ms remaining: 897ms
30: learn: 2573.5294022 test: 2575.7286243 best: 2575.7286243 (30) total: 397ms remaining: 884ms
31: learn: 2558.1848156 test: 2559.7639246 best: 2559.7639246 (31) total: 410ms remaining: 871ms
32: learn: 2543.0334683 test: 2544.7770583 best: 2544.7770583 (32) total: 426ms remaining: 864ms

33: learn: 2529.3696133 test: 2530.9322873 best: 2530.9322873 (33) total: 438ms remaining: 850ms
34: learn: 2510.5504554 test: 2511.6892636 best: 2511.6892636 (34) total: 451ms remaining: 837ms
35: learn: 2498.4951124 test: 2499.0797388 best: 2499.0797388 (35) total: 463ms remaining: 824ms
36: learn: 2486.1849444 test: 2485.6551580 best: 2485.6551580 (36) total: 476ms remaining: 811ms
37: learn: 2474.6915339 test: 2474.4321876 best: 2474.4321876 (37) total: 488ms remaining: 797ms
38: learn: 2464.1967756 test: 2463.6513693 best: 2463.6513693 (38) total: 501ms remaining: 784ms
39: learn: 2454.1868130 test: 2453.2876385 best: 2453.2876385 (39) total: 516ms remaining: 774ms
40: learn: 2443.9701857 test: 2441.9609225 best: 2441.9609225 (40) total: 528ms remaining: 760ms
41: learn: 2429.0192948 test: 2426.8105110 best: 2426.8105110 (41) total: 540ms remaining: 746ms
42: learn: 2419.6350681 test: 2417.8477847 best: 2417.8477847 (42) total: 552ms remaining: 732ms
43: learn: 2411.0350547 test: 2409.5084081 best: 2409.5084081 (43) total: 564ms remaining: 718ms
44: learn: 2398.9075276 test: 2397.0525026 best: 2397.0525026 (44) total: 577ms remaining: 705ms
45: learn: 2390.3565495 test: 2388.4867987 best: 2388.4867987 (45) total: 590ms remaining: 692ms
46: learn: 2382.1277050 test: 2379.7311925 best: 2379.7311925 (46) total: 602ms remaining: 679ms
47: learn: 2373.7019266 test: 2370.8107234 best: 2370.8107234 (47) total: 622ms remaining: 674ms
48: learn: 2366.5387662 test: 2362.6342914 best: 2362.6342914 (48) total: 637ms remaining: 663ms
49: learn: 2359.4425347 test: 2355.2517543 best: 2355.2517543 (49) total: 650ms remaining: 650ms
50: learn: 2349.1039833 test: 2344.7207684 best: 2344.7207684 (50) total: 663ms remaining: 637ms
51: learn: 2342.8443156 test: 2338.7866189 best: 2338.7866189 (51) total: 675ms remaining: 623ms
52: learn: 2336.6755008 test: 2332.3560871 best: 2332.3560871 (52) total: 688ms remaining: 610ms
53: learn: 2330.7275126 test: 2326.5586041 best: 2326.5586041 (53) total: 700ms remaining: 596ms
54: learn: 2325.2732662 test: 2321.3236355 best: 2321.3236355 (54) total: 714ms remaining: 584ms
55: learn: 2316.9915610 test: 2312.7528584 best: 2312.7528584 (55) total: 727ms remaining: 571ms
56: learn: 2311.3503767 test: 2306.8462092 best: 2306.8462092 (56) total: 739ms remaining: 558ms
57: learn: 2306.1240377 test: 2301.2471613 best: 2301.2471613 (57) total: 751ms remaining: 544ms
58: learn: 2297.4689088 test: 2292.4174121 best: 2292.4174121 (58) total: 764ms remaining: 531ms
59: learn: 2292.9017886 test: 2287.7397597 best: 2287.7397597 (59) total: 776ms remaining: 517ms
60: learn: 2287.9740564 test: 2283.0927624 best: 2283.0927624 (60) total: 788ms remaining: 504ms
61: learn: 2282.7109596 test: 2277.5814826 best: 2277.5814826 (61) total: 800ms remaining: 491ms
62: learn: 2276.9980756 test: 2270.9458666 best: 2270.9458666 (62) total: 817ms remaining: 480ms
63: learn: 2271.2553542 test: 2265.1299300 best: 2265.1299300 (63) total: 830ms remaining: 467ms
64: learn: 2264.8057233 test: 2258.5191735 best: 2258.5191735 (64) total: 842ms remaining: 454ms
65: learn: 2260.4174071 test: 2254.2693341 best: 2254.2693341 (65) total: 855ms remaining: 440ms
66: learn: 2256.3171364 test: 2250.4892294 best: 2250.4892294 (66) total: 867ms remaining: 427ms
67: learn: 2252.1275419 test: 2245.7427603 best: 2245.7427603 (67) total: 879ms remaining: 414ms
68: learn: 2246.9517974 test: 2240.1793045 best: 2240.1793045 (68) total: 892ms remaining: 401ms
69: learn: 2242.8938940 test: 2235.9742845 best: 2235.9742845 (69) total: 905ms remaining: 388ms
70: learn: 2239.3430801 test: 2232.5231379 best: 2232.5231379 (70) total: 919ms remaining: 375ms
71: learn: 2233.8173043 test: 2226.7405488 best: 2226.7405488 (71) total: 932ms remaining: 362ms
72: learn: 2230.4206060 test: 2223.5765238 best: 2223.5765238 (72) total: 944ms remaining: 349ms
73: learn: 2225.4250968 test: 2218.2334351 best: 2218.2334351 (73) total: 956ms remaining: 336ms

74: learn: 2220.4956238 test: 2213.0754352 best: 2213.0754352 (74) total: 968ms remaining: 323ms
75: learn: 2216.2659124 test: 2209.0355126 best: 2209.0355126 (75) total: 981ms remaining: 310ms
76: learn: 2212.2493745 test: 2205.2373109 best: 2205.2373109 (76) total: 993ms remaining: 297ms
77: learn: 2209.0111698 test: 2202.1754223 best: 2202.1754223 (77) total: 1.01s remaining: 285ms
78: learn: 2204.5233155 test: 2197.4548079 best: 2197.4548079 (78) total: 1.02s remaining: 272ms
79: learn: 2200.2441055 test: 2192.8607891 best: 2192.8607891 (79) total: 1.03s remaining: 259ms
80: learn: 2197.2611104 test: 2189.4010080 best: 2189.4010080 (80) total: 1.05s remaining: 246ms
81: learn: 2192.9609180 test: 2184.9792359 best: 2184.9792359 (81) total: 1.06s remaining: 233ms
82: learn: 2190.3566410 test: 2182.4506466 best: 2182.4506466 (82) total: 1.07s remaining: 220ms
83: learn: 2187.1140845 test: 2179.0434978 best: 2179.0434978 (83) total: 1.08s remaining: 207ms
84: learn: 2183.4162861 test: 2175.1705012 best: 2175.1705012 (84) total: 1.1s remaining: 194ms
85: learn: 2180.3829150 test: 2172.4157679 best: 2172.4157679 (85) total: 1.11s remaining: 181ms
86: learn: 2177.5506614 test: 2169.6990095 best: 2169.6990095 (86) total: 1.13s remaining: 168ms
87: learn: 2174.4590131 test: 2166.5725260 best: 2166.5725260 (87) total: 1.14s remaining: 156ms
88: learn: 2171.6568080 test: 2163.8511752 best: 2163.8511752 (88) total: 1.15s remaining: 143ms
89: learn: 2169.2097560 test: 2161.2348447 best: 2161.2348447 (89) total: 1.17s remaining: 130ms
90: learn: 2166.0176188 test: 2157.8636734 best: 2157.8636734 (90) total: 1.18s remaining: 117ms
91: learn: 2163.5991505 test: 2155.8118685 best: 2155.8118685 (91) total: 1.19s remaining: 103ms
92: learn: 2159.7387285 test: 2151.8688648 best: 2151.8688648 (92) total: 1.2s remaining: 90.5ms
93: learn: 2156.4485066 test: 2148.3112127 best: 2148.3112127 (93) total: 1.22s remaining: 77.7ms
94: learn: 2153.5070728 test: 2145.5274763 best: 2145.5274763 (94) total: 1.23s remaining: 64.7ms
95: learn: 2151.0018127 test: 2142.9698103 best: 2142.9698103 (95) total: 1.24s remaining: 51.7ms
96: learn: 2146.9249874 test: 2138.6549836 best: 2138.6549836 (96) total: 1.25s remaining: 38.8ms
97: learn: 2144.2378291 test: 2136.1738144 best: 2136.1738144 (97) total: 1.27s remaining: 25.9ms
98: learn: 2141.9058468 test: 2134.1270806 best: 2134.1270806 (98) total: 1.28s remaining: 12.9ms
99: learn: 2139.2869374 test: 2131.4633917 best: 2131.4633917 (99) total: 1.29s remaining: 0us

bestTest = 2131.463392

bestIteration = 99

7: loss: 2131.4633917 best: 2131.1867154 (1) total: 11.9s remaining: 2m 11s
0: learn: 6820.7380586 test: 6849.0927084 best: 6849.0927084 (0) total: 17.1ms remaining: 2.55s
1: learn: 6663.6526529 test: 6692.2236346 best: 6692.2236346 (1) total: 29.9ms remaining: 2.21s
2: learn: 6511.9860870 test: 6540.6883531 best: 6540.6883531 (2) total: 46ms remaining: 2.25s
3: learn: 6365.9994684 test: 6394.9850384 best: 6394.9850384 (3) total: 61.5ms remaining: 2.25s
4: learn: 6224.2371883 test: 6253.5602819 best: 6253.5602819 (4) total: 74.2ms remaining: 2.15s
5: learn: 6088.8674406 test: 6118.2472563 best: 6118.2472563 (5) total: 87.5ms remaining: 2.1s
6: learn: 5958.6207585 test: 5988.1120525 best: 5988.1120525 (6) total: 103ms remaining: 2.1s
7: learn: 5833.0854263 test: 5862.3617646 best: 5862.3617646 (7) total: 115ms remaining: 2.05s
8: learn: 5710.0461620 test: 5739.7363829 best: 5739.7363829 (8) total: 128ms remaining: 2.01s
9: learn: 5591.8069567 test: 5621.8808728 best: 5621.8808728 (9) total: 140ms remaining: 1.97s
10: learn: 5478.3674105 test: 5508.8513472 best: 5508.8513472 (10) total: 153ms remaining: 1.93s

11: learn: 5369.3930456 test: 5400.0519450 best: 5400.0519450 (11) total: 164ms remaining: 1.89s
12: learn: 5264.6506988 test: 5295.6594034 best: 5295.6594034 (12) total: 177ms remaining: 1.87s
13: learn: 5163.8440269 test: 5194.7508434 best: 5194.7508434 (13) total: 190ms remaining: 1.84s
14: learn: 5065.0692697 test: 5095.6024487 best: 5095.6024487 (14) total: 205ms remaining: 1.85s
15: learn: 4971.5973680 test: 5002.0145441 best: 5002.0145441 (15) total: 219ms remaining: 1.83s
16: learn: 4882.0629175 test: 4912.4907282 best: 4912.4907282 (16) total: 231ms remaining: 1.81s
17: learn: 4794.6541425 test: 4825.2295423 best: 4825.2295423 (17) total: 244ms remaining: 1.79s
18: learn: 4711.3672219 test: 4741.6284211 best: 4741.6284211 (18) total: 257ms remaining: 1.77s
19: learn: 4630.2579679 test: 4660.1537082 best: 4660.1537082 (19) total: 270ms remaining: 1.75s
20: learn: 4553.4054479 test: 4583.2413730 best: 4583.2413730 (20) total: 283ms remaining: 1.74s
21: learn: 4479.6842353 test: 4509.2508280 best: 4509.2508280 (21) total: 295ms remaining: 1.72s
22: learn: 4407.1484287 test: 4436.6032307 best: 4436.6032307 (22) total: 309ms remaining: 1.71s
23: learn: 4336.7817462 test: 4365.7715158 best: 4365.7715158 (23) total: 324ms remaining: 1.7s
24: learn: 4269.1356627 test: 4297.6783268 best: 4297.6783268 (24) total: 337ms remaining: 1.68s
25: learn: 4203.9784920 test: 4232.1059451 best: 4232.1059451 (25) total: 353ms remaining: 1.68s
26: learn: 4143.4457141 test: 4171.2850389 best: 4171.2850389 (26) total: 365ms remaining: 1.66s
27: learn: 4083.2610129 test: 4110.7892707 best: 4110.7892707 (27) total: 378ms remaining: 1.65s
28: learn: 4025.8324313 test: 4052.8757534 best: 4052.8757534 (28) total: 394ms remaining: 1.64s
29: learn: 3971.4008020 test: 3997.9285999 best: 3997.9285999 (29) total: 418ms remaining: 1.67s
30: learn: 3920.0315557 test: 3946.1019043 best: 3946.1019043 (30) total: 432ms remaining: 1.66s
31: learn: 3870.1117345 test: 3895.9809990 best: 3895.9809990 (31) total: 445ms remaining: 1.64s
32: learn: 3823.2553487 test: 3848.7004469 best: 3848.7004469 (32) total: 458ms remaining: 1.62s
33: learn: 3775.5125685 test: 3800.5872508 best: 3800.5872508 (33) total: 471ms remaining: 1.61s
34: learn: 3729.2046471 test: 3753.9551713 best: 3753.9551713 (34) total: 484ms remaining: 1.59s
35: learn: 3687.5658579 test: 3711.9753911 best: 3711.9753911 (35) total: 497ms remaining: 1.57s
36: learn: 3645.4328256 test: 3669.3856321 best: 3669.3856321 (36) total: 511ms remaining: 1.56s
37: learn: 3605.0236049 test: 3628.9042453 best: 3628.9042453 (37) total: 524ms remaining: 1.54s
38: learn: 3566.6405866 test: 3590.2318587 best: 3590.2318587 (38) total: 538ms remaining: 1.53s
39: learn: 3530.0306398 test: 3553.1382266 best: 3553.1382266 (39) total: 551ms remaining: 1.51s
40: learn: 3494.1347888 test: 3516.9326686 best: 3516.9326686 (40) total: 564ms remaining: 1.5s
41: learn: 3459.1223964 test: 3481.6952874 best: 3481.6952874 (41) total: 576ms remaining: 1.48s
42: learn: 3426.8980205 test: 3448.9294337 best: 3448.9294337 (42) total: 589ms remaining: 1.47s
43: learn: 3395.8572848 test: 3417.4305691 best: 3417.4305691 (43) total: 604ms remaining: 1.45s
44: learn: 3364.2629515 test: 3385.7199236 best: 3385.7199236 (44) total: 616ms remaining: 1.44s
45: learn: 3332.5756844 test: 3353.3275442 best: 3353.3275442 (45) total: 628ms remaining: 1.42s
46: learn: 3301.8512082 test: 3321.9815204 best: 3321.9815204 (46) total: 641ms remaining: 1.4s
47: learn: 3275.1446259 test: 3294.9764698 best: 3294.9764698 (47) total: 653ms remaining: 1.39s
48: learn: 3247.3724861 test: 3266.5214124 best: 3266.5214124 (48) total: 665ms remaining: 1.37s
49: learn: 3221.9004314 test: 3240.4556353 best: 3240.4556353 (49) total: 678ms remaining: 1.35s
50: learn: 3196.3250052 test: 3214.7447366 best: 3214.7447366 (50) total: 691ms remaining: 1.34s
51: learn: 3173.2451910 test: 3191.0542702 best: 3191.0542702 (51) total: 706ms remaining: 1.33s

52: learn: 3148.2007355 test: 3165.6684072 best: 3165.6684072 (52) total: 720ms remaining: 1.32s
53: learn: 3125.0127029 test: 3141.9580554 best: 3141.9580554 (53) total: 732ms remaining: 1.3s
54: learn: 3102.2480023 test: 3118.9205013 best: 3118.9205013 (54) total: 745ms remaining: 1.29s
55: learn: 3080.6656967 test: 3097.1902717 best: 3097.1902717 (55) total: 758ms remaining: 1.27s
56: learn: 3060.4847479 test: 3076.5984752 best: 3076.5984752 (56) total: 770ms remaining: 1.26s
57: learn: 3040.3487037 test: 3055.9032405 best: 3055.9032405 (57) total: 782ms remaining: 1.24s
58: learn: 3021.3961666 test: 3036.5279033 best: 3036.5279033 (58) total: 798ms remaining: 1.23s
59: learn: 3003.9958831 test: 3018.6840161 best: 3018.6840161 (59) total: 811ms remaining: 1.22s
60: learn: 2987.5206194 test: 3001.6458940 best: 3001.6458940 (60) total: 825ms remaining: 1.2s
61: learn: 2971.1455446 test: 2985.0101811 best: 2985.0101811 (61) total: 838ms remaining: 1.19s
62: learn: 2953.9599689 test: 2967.6731436 best: 2967.6731436 (62) total: 851ms remaining: 1.18s
63: learn: 2936.8725513 test: 2950.1824063 best: 2950.1824063 (63) total: 864ms remaining: 1.16s
64: learn: 2922.8119117 test: 2935.6451484 best: 2935.6451484 (64) total: 878ms remaining: 1.15s
65: learn: 2907.2228333 test: 2919.7242190 best: 2919.7242190 (65) total: 893ms remaining: 1.14s
66: learn: 2892.7505794 test: 2904.8355313 best: 2904.8355313 (66) total: 906ms remaining: 1.12s
67: learn: 2878.6615168 test: 2890.1994802 best: 2890.1994802 (67) total: 919ms remaining: 1.11s
68: learn: 2864.5452753 test: 2875.9360248 best: 2875.9360248 (68) total: 933ms remaining: 1.09s
69: learn: 2851.5977612 test: 2862.5921191 best: 2862.5921191 (69) total: 945ms remaining: 1.08s
70: learn: 2839.2086954 test: 2849.7428749 best: 2849.7428749 (70) total: 958ms remaining: 1.06s
71: learn: 2826.6136585 test: 2836.9992059 best: 2836.9992059 (71) total: 971ms remaining: 1.05s
72: learn: 2814.9822724 test: 2824.9693514 best: 2824.9693514 (72) total: 983ms remaining: 1.04s
73: learn: 2804.0920461 test: 2813.7159224 best: 2813.7159224 (73) total: 1s remaining: 1.03s
74: learn: 2793.1097485 test: 2802.4316589 best: 2802.4316589 (74) total: 1.01s remaining: 1.01s
75: learn: 2782.9088009 test: 2791.7982657 best: 2791.7982657 (75) total: 1.02s remaining: 998ms
76: learn: 2771.9716897 test: 2780.5936694 best: 2780.5936694 (76) total: 1.04s remaining: 984ms
77: learn: 2762.5088036 test: 2770.8040932 best: 2770.8040932 (77) total: 1.05s remaining: 970ms
78: learn: 2751.4421217 test: 2759.5670977 best: 2759.5670977 (78) total: 1.06s remaining: 955ms
79: learn: 2741.6597510 test: 2749.5031372 best: 2749.5031372 (79) total: 1.07s remaining: 941ms
80: learn: 2732.9330651 test: 2740.3893828 best: 2740.3893828 (80) total: 1.09s remaining: 927ms
81: learn: 2724.3558988 test: 2731.3631749 best: 2731.3631749 (81) total: 1.1s remaining: 915ms
82: learn: 2716.2154907 test: 2722.7682593 best: 2722.7682593 (82) total: 1.12s remaining: 902ms
83: learn: 2708.5457977 test: 2714.7764274 best: 2714.7764274 (83) total: 1.13s remaining: 888ms
84: learn: 2701.0291154 test: 2706.7787441 best: 2706.7787441 (84) total: 1.14s remaining: 874ms
85: learn: 2693.3125326 test: 2699.1148320 best: 2699.1148320 (85) total: 1.16s remaining: 861ms
86: learn: 2686.0562615 test: 2691.5850292 best: 2691.5850292 (86) total: 1.17s remaining: 848ms
87: learn: 2679.2878577 test: 2684.5066165 best: 2684.5066165 (87) total: 1.18s remaining: 835ms
88: learn: 2671.9342518 test: 2677.0501532 best: 2677.0501532 (88) total: 1.2s remaining: 825ms
89: learn: 2664.9366923 test: 2669.7831573 best: 2669.7831573 (89) total: 1.22s remaining: 811ms
90: learn: 2658.1552313 test: 2663.0684939 best: 2663.0684939 (90) total: 1.23s remaining: 798ms
91: learn: 2651.9266710 test: 2656.5437386 best: 2656.5437386 (91) total: 1.25s remaining: 785ms
92: learn: 2645.7309582 test: 2650.2278584 best: 2650.2278584 (92) total: 1.26s remaining: 771ms

93: learn: 2640.0401890 test: 2644.6086988 best: 2644.6086988 (93) total: 1.27s remaining: 758ms
94: learn: 2634.4182617 test: 2638.7404135 best: 2638.7404135 (94) total: 1.29s remaining: 745ms
95: learn: 2628.7736156 test: 2632.8827656 best: 2632.8827656 (95) total: 1.3s remaining: 733ms
96: learn: 2622.0875206 test: 2626.0872819 best: 2626.0872819 (96) total: 1.32s remaining: 720ms
97: learn: 2616.4714799 test: 2620.3695434 best: 2620.3695434 (97) total: 1.33s remaining: 706ms
98: learn: 2611.0585043 test: 2614.6521515 best: 2614.6521515 (98) total: 1.34s remaining: 692ms
99: learn: 2603.5148225 test: 2606.9820039 best: 2606.9820039 (99) total: 1.35s remaining: 678ms
100: learn: 2598.4268324 test: 2601.4199645 best: 2601.4199645 (100) total: 1.37s remaining: 664ms
101: learn: 2593.0377505 test: 2595.8757827 best: 2595.8757827 (101) total: 1.38s remaining: 650ms
102: learn: 2587.9938186 test: 2590.5499054 best: 2590.5499054 (102) total: 1.4s remaining: 637ms
103: learn: 2582.9131557 test: 2585.3851116 best: 2585.3851116 (103) total: 1.41s remaining: 623ms
104: learn: 2578.1188981 test: 2580.3766867 best: 2580.3766867 (104) total: 1.42s remaining: 609ms
105: learn: 2573.3933656 test: 2575.5752665 best: 2575.5752665 (105) total: 1.43s remaining: 595ms
106: learn: 2566.5946272 test: 2568.7006855 best: 2568.7006855 (106) total: 1.45s remaining: 581ms
107: learn: 2561.3842713 test: 2563.5361628 best: 2563.5361628 (107) total: 1.46s remaining: 567ms
108: learn: 2556.4846103 test: 2558.4532854 best: 2558.4532854 (108) total: 1.47s remaining: 553ms
109: learn: 2550.0906126 test: 2551.9411757 best: 2551.9411757 (109) total: 1.48s remaining: 539ms
110: learn: 2545.8158832 test: 2547.3859170 best: 2547.3859170 (110) total: 1.5s remaining: 526ms
111: learn: 2541.1263381 test: 2542.8089020 best: 2542.8089020 (111) total: 1.51s remaining: 512ms
112: learn: 2536.6156393 test: 2538.3901198 best: 2538.3901198 (112) total: 1.52s remaining: 499ms
113: learn: 2532.3188366 test: 2533.7081185 best: 2533.7081185 (113) total: 1.53s remaining: 485ms
114: learn: 2526.4845190 test: 2527.7617119 best: 2527.7617119 (114) total: 1.55s remaining: 471ms
115: learn: 2522.3862858 test: 2523.7687328 best: 2523.7687328 (115) total: 1.56s remaining: 457ms
116: learn: 2518.4275457 test: 2519.5469705 best: 2519.5469705 (116) total: 1.57s remaining: 443ms
117: learn: 2512.9684800 test: 2513.9770052 best: 2513.9770052 (117) total: 1.59s remaining: 431ms
118: learn: 2508.9533872 test: 2509.5424426 best: 2509.5424426 (118) total: 1.6s remaining: 417ms
119: learn: 2505.0864739 test: 2505.4828979 best: 2505.4828979 (119) total: 1.61s remaining: 403ms
120: learn: 2501.1949389 test: 2501.5481330 best: 2501.5481330 (120) total: 1.62s remaining: 389ms
121: learn: 2497.5097747 test: 2497.5196792 best: 2497.5196792 (121) total: 1.64s remaining: 376ms
122: learn: 2493.8702460 test: 2493.7278934 best: 2493.7278934 (122) total: 1.65s remaining: 362ms
123: learn: 2490.4020264 test: 2490.0607705 best: 2490.0607705 (123) total: 1.66s remaining: 348ms
124: learn: 2486.8368714 test: 2486.2955513 best: 2486.2955513 (124) total: 1.67s remaining: 334ms
125: learn: 2483.1772033 test: 2482.7159671 best: 2482.7159671 (125) total: 1.69s remaining: 321ms
126: learn: 2478.0171159 test: 2477.4932092 best: 2477.4932092 (126) total: 1.7s remaining: 307ms
127: learn: 2474.6561542 test: 2474.2164023 best: 2474.2164023 (127) total: 1.71s remaining: 294ms
128: learn: 2471.3077340 test: 2470.7409440 best: 2470.7409440 (128) total: 1.72s remaining: 280ms
129: learn: 2466.4452071 test: 2465.8158243 best: 2465.8158243 (129) total: 1.73s remaining: 267ms
130: learn: 2463.2641409 test: 2462.3359961 best: 2462.3359961 (130) total: 1.75s remaining: 253ms
131: learn: 2460.0290655 test: 2459.1922497 best: 2459.1922497 (131) total: 1.76s remaining: 240ms
132: learn: 2456.7839388 test: 2455.9687109 best: 2455.9687109 (132) total: 1.77s remaining: 226ms
133: learn: 2453.7474735 test: 2452.7194946 best: 2452.7194946 (133) total: 1.79s remaining: 213ms
134: learn: 2452.4446542 test: 2449.4714284 best: 2449.4714284 (134) total: 1.8s remaining: 202ms

134: learn: 2450.4443548 test: 2449.4714304 best: 2449.4714304 (134) total: 1.8s remaining: 200ms
135: learn: 2445.8927178 test: 2444.8600197 best: 2444.8600197 (135) total: 1.81s remaining: 186ms
136: learn: 2442.8612203 test: 2441.6008290 best: 2441.6008290 (136) total: 1.82s remaining: 173ms
137: learn: 2439.9196710 test: 2438.3684811 best: 2438.3684811 (137) total: 1.83s remaining: 160ms
138: learn: 2437.0020149 test: 2435.2778562 best: 2435.2778562 (138) total: 1.85s remaining: 146ms
139: learn: 2434.0734993 test: 2432.4388610 best: 2432.4388610 (139) total: 1.86s remaining: 133ms
140: learn: 2431.2062070 test: 2429.5001586 best: 2429.5001586 (140) total: 1.88s remaining: 120ms
141: learn: 2427.2175506 test: 2425.4052476 best: 2425.4052476 (141) total: 1.89s remaining: 107ms
142: learn: 2423.1885866 test: 2421.2762464 best: 2421.2762464 (142) total: 1.9s remaining: 93.2ms
143: learn: 2420.4424925 test: 2418.6166484 best: 2418.6166484 (143) total: 1.92s remaining: 79.8ms
144: learn: 2417.8814464 test: 2416.1389175 best: 2416.1389175 (144) total: 1.93s remaining: 66.4ms
145: learn: 2415.0559428 test: 2413.3467034 best: 2413.3467034 (145) total: 1.94s remaining: 53.1ms
146: learn: 2412.3943996 test: 2410.7189663 best: 2410.7189663 (146) total: 1.95s remaining: 39.8ms
147: learn: 2408.4989507 test: 2406.7051309 best: 2406.7051309 (147) total: 1.96s remaining: 26.5ms
148: learn: 2405.9642662 test: 2403.8679824 best: 2403.8679824 (148) total: 1.98s remaining: 13.3ms
149: learn: 2402.2791159 test: 2400.1151589 best: 2400.1151589 (149) total: 1.99s remaining: 0us

bestTest = 2400.115159

bestIteration = 149

8: loss: 2400.1151589 best: 2131.1867154 (1) total: 14s remaining: 2m 15s
0: learn: 6448.8464120 test: 6477.8169153 best: 6477.8169153 (0) total: 13ms remaining: 1.94s
1: learn: 5970.9021186 test: 5999.9301137 best: 5999.9301137 (1) total: 25.6ms remaining: 1.89s
2: learn: 5555.1449951 test: 5583.5154288 best: 5583.5154288 (2) total: 37.9ms remaining: 1.86s
3: learn: 5181.1846417 test: 5210.8063907 best: 5210.8063907 (3) total: 50.1ms remaining: 1.83s
4: learn: 4854.3990850 test: 4885.0637991 best: 4885.0637991 (4) total: 62.4ms remaining: 1.81s
5: learn: 4567.4745857 test: 4597.2176374 best: 4597.2176374 (5) total: 74.4ms remaining: 1.78s
6: learn: 4324.0249699 test: 4352.8571289 best: 4352.8571289 (6) total: 88.9ms remaining: 1.82s
7: learn: 4104.6836148 test: 4131.8284171 best: 4131.8284171 (7) total: 101ms remaining: 1.8s
8: learn: 3917.1707585 test: 3943.2597283 best: 3943.2597283 (8) total: 116ms remaining: 1.81s
9: learn: 3748.6387570 test: 3774.5617452 best: 3774.5617452 (9) total: 129ms remaining: 1.8s
10: learn: 3605.2025170 test: 3629.5245330 best: 3629.5245330 (10) total: 143ms remaining: 1.8s
11: learn: 3476.4011880 test: 3500.3679991 best: 3500.3679991 (11) total: 156ms remaining: 1.79s
12: learn: 3370.1841871 test: 3392.6798865 best: 3392.6798865 (12) total: 169ms remaining: 1.78s
13: learn: 3264.2296449 test: 3284.5219702 best: 3284.5219702 (13) total: 186ms remaining: 1.8s
14: learn: 3174.1505989 test: 3192.4644974 best: 3192.4644974 (14) total: 199ms remaining: 1.79s
15: learn: 3100.6106361 test: 3117.6327477 best: 3117.6327477 (15) total: 211ms remaining: 1.77s
16: learn: 3028.0057234 test: 3043.7480917 best: 3043.7480917 (16) total: 224ms remaining: 1.75s
17: learn: 2968.0201668 test: 2982.1101731 best: 2982.1101731 (17) total: 237ms remaining: 1.74s
18: learn: 2912.5709088 test: 2926.1772809 best: 2926.1772809 (18) total: 249ms remaining: 1.72s
19: learn: 2867.6761467 test: 2879.6904237 best: 2879.6904237 (19) total: 264ms remaining: 1.72s
20: learn: 2822.7321517 test: 2833.7667802 best: 2833.7667802 (20) total: 280ms remaining: 1.72s

21: learn: 2786.4765679 test: 2796.6066563 best: 2796.6066563 (21) total: 292ms remaining: 1.7s
22: learn: 2752.7530120 test: 2761.3480330 best: 2761.3480330 (22) total: 304ms remaining: 1.68s
23: learn: 2725.2321155 test: 2732.6532735 best: 2732.6532735 (23) total: 316ms remaining: 1.66s
24: learn: 2699.5942954 test: 2706.2205481 best: 2706.2205481 (24) total: 329ms remaining: 1.64s
25: learn: 2676.7851226 test: 2682.3422440 best: 2682.3422440 (25) total: 342ms remaining: 1.63s
26: learn: 2654.9942707 test: 2658.9855918 best: 2658.9855918 (26) total: 356ms remaining: 1.62s
27: learn: 2635.0266813 test: 2638.6266470 best: 2638.6266470 (27) total: 368ms remaining: 1.6s
28: learn: 2608.4140401 test: 2611.5418912 best: 2611.5418912 (28) total: 385ms remaining: 1.61s
29: learn: 2588.8851304 test: 2592.1564251 best: 2592.1564251 (29) total: 397ms remaining: 1.59s
30: learn: 2573.3734193 test: 2575.5651525 best: 2575.5651525 (30) total: 411ms remaining: 1.57s
31: learn: 2558.0105415 test: 2559.5820164 best: 2559.5820164 (31) total: 424ms remaining: 1.56s
32: learn: 2542.8518276 test: 2544.5890737 best: 2544.5890737 (32) total: 436ms remaining: 1.54s
33: learn: 2529.1851082 test: 2530.7407126 best: 2530.7407126 (33) total: 450ms remaining: 1.53s
34: learn: 2510.3671237 test: 2511.4990689 best: 2511.4990689 (34) total: 464ms remaining: 1.52s
35: learn: 2498.2937125 test: 2498.8723379 best: 2498.8723379 (35) total: 479ms remaining: 1.51s
36: learn: 2485.9858745 test: 2485.4499271 best: 2485.4499271 (36) total: 491ms remaining: 1.5s
37: learn: 2474.4882763 test: 2474.2236883 best: 2474.2236883 (37) total: 502ms remaining: 1.48s
38: learn: 2463.9909176 test: 2463.4394133 best: 2463.4394133 (38) total: 514ms remaining: 1.46s
39: learn: 2453.9793148 test: 2453.0740027 best: 2453.0740027 (39) total: 526ms remaining: 1.45s
40: learn: 2443.7638197 test: 2441.7481750 best: 2441.7481750 (40) total: 538ms remaining: 1.43s
41: learn: 2428.8114065 test: 2426.5964137 best: 2426.5964137 (41) total: 552ms remaining: 1.42s
42: learn: 2419.4101231 test: 2417.6200760 best: 2417.6200760 (42) total: 565ms remaining: 1.41s
43: learn: 2410.8134733 test: 2409.2841987 best: 2409.2841987 (43) total: 580ms remaining: 1.4s
44: learn: 2398.6823629 test: 2396.8246297 best: 2396.8246297 (44) total: 593ms remaining: 1.38s
45: learn: 2390.1310605 test: 2388.2581891 best: 2388.2581891 (45) total: 605ms remaining: 1.37s
46: learn: 2381.8875605 test: 2379.4993952 best: 2379.4993952 (46) total: 618ms remaining: 1.35s
47: learn: 2373.4659933 test: 2370.5833858 best: 2370.5833858 (47) total: 630ms remaining: 1.34s
48: learn: 2366.3058109 test: 2362.4117703 best: 2362.4117703 (48) total: 642ms remaining: 1.32s
49: learn: 2359.2092641 test: 2355.0288886 best: 2355.0288886 (49) total: 658ms remaining: 1.31s
50: learn: 2348.8729505 test: 2344.5006736 best: 2344.5006736 (50) total: 673ms remaining: 1.3s
51: learn: 2342.6157975 test: 2338.5685630 best: 2338.5685630 (51) total: 685ms remaining: 1.29s
52: learn: 2336.4490309 test: 2332.1402553 best: 2332.1402553 (52) total: 697ms remaining: 1.28s
53: learn: 2330.5029118 test: 2326.3451438 best: 2326.3451438 (53) total: 710ms remaining: 1.26s
54: learn: 2325.0470597 test: 2321.1091774 best: 2321.1091774 (54) total: 722ms remaining: 1.25s
55: learn: 2316.7657643 test: 2312.5387909 best: 2312.5387909 (55) total: 734ms remaining: 1.23s
56: learn: 2311.1263692 test: 2306.6342152 best: 2306.6342152 (56) total: 746ms remaining: 1.22s
57: learn: 2305.8982472 test: 2301.0322311 best: 2301.0322311 (57) total: 759ms remaining: 1.2s
58: learn: 2297.2479231 test: 2292.2076083 best: 2292.2076083 (58) total: 775ms remaining: 1.19s
59: learn: 2292.6845599 test: 2287.5340936 best: 2287.5340936 (59) total: 787ms remaining: 1.18s
60: learn: 2287.7610085 test: 2282.8908456 best: 2282.8908456 (60) total: 799ms remaining: 1.17s
61: learn: 2282.5025247 test: 2277.3845880 best: 2277.3845880 (61) total: 811ms remaining: 1.15s

62: learn: 2276.7905678 test: 2270.7501530 best: 2270.7501530 (62) total: 823ms remaining: 1.14s
63: learn: 2271.0458511 test: 2264.9321133 best: 2264.9321133 (63) total: 835ms remaining: 1.12s
64: learn: 2264.6000232 test: 2258.3255977 best: 2258.3255977 (64) total: 847ms remaining: 1.11s
65: learn: 2260.2095722 test: 2254.0754566 best: 2254.0754566 (65) total: 859ms remaining: 1.09s
66: learn: 2256.1076988 test: 2250.2941841 best: 2250.2941841 (66) total: 874ms remaining: 1.08s
67: learn: 2251.9160108 test: 2245.5454488 best: 2245.5454488 (67) total: 886ms remaining: 1.07s
68: learn: 2246.7381779 test: 2239.9799367 best: 2239.9799367 (68) total: 898ms remaining: 1.05s
69: learn: 2242.6800205 test: 2235.7749219 best: 2235.7749219 (69) total: 910ms remaining: 1.04s
70: learn: 2239.1111888 test: 2232.2998168 best: 2232.2998168 (70) total: 922ms remaining: 1.02s
71: learn: 2233.5875618 test: 2226.5193512 best: 2226.5193512 (71) total: 934ms remaining: 1.01s
72: learn: 2230.1603635 test: 2223.3272624 best: 2223.3272624 (72) total: 945ms remaining: 997ms
73: learn: 2225.1636203 test: 2217.9828962 best: 2217.9828962 (73) total: 958ms remaining: 984ms
74: learn: 2220.2308654 test: 2212.8215770 best: 2212.8215770 (74) total: 972ms remaining: 972ms
75: learn: 2216.0025053 test: 2208.7830367 best: 2208.7830367 (75) total: 984ms remaining: 958ms
76: learn: 2211.9858353 test: 2204.9848210 best: 2204.9848210 (76) total: 996ms remaining: 944ms
77: learn: 2208.7479227 test: 2201.9245211 best: 2201.9245211 (77) total: 1.01s remaining: 931ms
78: learn: 2204.2628103 test: 2197.2066647 best: 2197.2066647 (78) total: 1.02s remaining: 917ms
79: learn: 2199.9825707 test: 2192.6115690 best: 2192.6115690 (79) total: 1.03s remaining: 903ms
80: learn: 2197.0013365 test: 2189.1560571 best: 2189.1560571 (80) total: 1.04s remaining: 889ms
81: learn: 2192.7004190 test: 2184.7336268 best: 2184.7336268 (81) total: 1.05s remaining: 875ms
82: learn: 2190.0743298 test: 2182.1774528 best: 2182.1774528 (82) total: 1.07s remaining: 864ms
83: learn: 2186.8337737 test: 2178.7726306 best: 2178.7726306 (83) total: 1.08s remaining: 850ms
84: learn: 2183.1347561 test: 2174.8983761 best: 2174.8983761 (84) total: 1.09s remaining: 836ms
85: learn: 2180.1081762 test: 2172.1501767 best: 2172.1501767 (85) total: 1.1s remaining: 823ms
86: learn: 2177.2754845 test: 2169.4344070 best: 2169.4344070 (86) total: 1.12s remaining: 809ms
87: learn: 2174.1821681 test: 2166.3059607 best: 2166.3059607 (87) total: 1.13s remaining: 797ms
88: learn: 2171.3715147 test: 2163.5856833 best: 2163.5856833 (88) total: 1.15s remaining: 786ms
89: learn: 2168.9085561 test: 2160.9509861 best: 2160.9509861 (89) total: 1.16s remaining: 773ms
90: learn: 2165.7155685 test: 2157.5790543 best: 2157.5790543 (90) total: 1.18s remaining: 763ms
91: learn: 2163.2916616 test: 2155.5257547 best: 2155.5257547 (91) total: 1.19s remaining: 750ms
92: learn: 2159.4304291 test: 2151.5821013 best: 2151.5821013 (92) total: 1.2s remaining: 738ms
93: learn: 2156.1400250 test: 2148.0242463 best: 2148.0242463 (93) total: 1.22s remaining: 725ms
94: learn: 2153.1995904 test: 2145.2416603 best: 2145.2416603 (94) total: 1.23s remaining: 715ms
95: learn: 2150.6933350 test: 2142.6853663 best: 2142.6853663 (95) total: 1.25s remaining: 702ms
96: learn: 2146.6158572 test: 2138.3696601 best: 2138.3696601 (96) total: 1.27s remaining: 692ms
97: learn: 2143.9304985 test: 2135.8904196 best: 2135.8904196 (97) total: 1.28s remaining: 682ms
98: learn: 2141.6052012 test: 2133.8502308 best: 2133.8502308 (98) total: 1.3s remaining: 670ms
99: learn: 2138.9863424 test: 2131.1867154 best: 2131.1867154 (99) total: 1.31s remaining: 658ms
100: learn: 2136.4276576 test: 2128.8266663 best: 2128.8266663 (100) total: 1.33s remaining: 645ms
101: learn: 2133.7104433 test: 2126.0949359 best: 2126.0949359 (101) total: 1.34s remaining: 632ms
102: learn: 2131.5674755 test: 2123.8464963 best: 2123.8464963 (102) total: 1.36s remaining: 619ms

103: learn: 2129.5283824 test: 2121.5289417 best: 2121.5289417 (103) total: 1.37s remaining: 607ms
104: learn: 2126.3819280 test: 2118.4486716 best: 2118.4486716 (104) total: 1.39s remaining: 594ms
105: learn: 2124.3185215 test: 2116.5238398 best: 2116.5238398 (105) total: 1.4s remaining: 581ms
106: learn: 2122.4097294 test: 2114.6791199 best: 2114.6791199 (106) total: 1.41s remaining: 567ms
107: learn: 2119.6480686 test: 2111.6879772 best: 2111.6879772 (107) total: 1.42s remaining: 554ms
108: learn: 2116.5777589 test: 2108.6517907 best: 2108.6517907 (108) total: 1.44s remaining: 541ms
109: learn: 2114.6543669 test: 2106.8778524 best: 2106.8778524 (109) total: 1.45s remaining: 527ms
110: learn: 2112.8839405 test: 2105.3383255 best: 2105.3383255 (110) total: 1.47s remaining: 515ms
111: learn: 2109.9198356 test: 2102.2490697 best: 2102.2490697 (111) total: 1.48s remaining: 502ms
112: learn: 2107.9891863 test: 2100.2714397 best: 2100.2714397 (112) total: 1.49s remaining: 489ms
113: learn: 2106.2666598 test: 2098.6472644 best: 2098.6472644 (113) total: 1.51s remaining: 476ms
114: learn: 2103.7525569 test: 2095.9247282 best: 2095.9247282 (114) total: 1.52s remaining: 462ms
115: learn: 2101.9225400 test: 2094.2822168 best: 2094.2822168 (115) total: 1.53s remaining: 449ms
116: learn: 2099.8054611 test: 2092.1270688 best: 2092.1270688 (116) total: 1.54s remaining: 436ms
117: learn: 2097.8001839 test: 2090.3939439 best: 2090.3939439 (117) total: 1.56s remaining: 423ms
118: learn: 2096.1560233 test: 2088.8098282 best: 2088.8098282 (118) total: 1.58s remaining: 411ms
119: learn: 2093.6847557 test: 2086.3970181 best: 2086.3970181 (119) total: 1.59s remaining: 397ms
120: learn: 2092.1728971 test: 2085.1522153 best: 2085.1522153 (120) total: 1.6s remaining: 384ms
121: learn: 2090.5541086 test: 2083.3352528 best: 2083.3352528 (121) total: 1.62s remaining: 371ms
122: learn: 2089.0208301 test: 2081.9439601 best: 2081.9439601 (122) total: 1.63s remaining: 358ms
123: learn: 2086.7612142 test: 2079.4921206 best: 2079.4921206 (123) total: 1.64s remaining: 344ms
124: learn: 2085.3241775 test: 2078.3926469 best: 2078.3926469 (124) total: 1.65s remaining: 331ms
125: learn: 2082.8288285 test: 2075.9299996 best: 2075.9299996 (125) total: 1.67s remaining: 319ms
126: learn: 2080.8028372 test: 2073.9510689 best: 2073.9510689 (126) total: 1.69s remaining: 305ms
127: learn: 2079.2568989 test: 2072.5073626 best: 2072.5073626 (127) total: 1.7s remaining: 292ms
128: learn: 2077.8230050 test: 2071.2263358 best: 2071.2263358 (128) total: 1.71s remaining: 279ms
129: learn: 2076.5106354 test: 2069.7979017 best: 2069.7979017 (129) total: 1.73s remaining: 265ms
130: learn: 2074.3540695 test: 2067.4584381 best: 2067.4584381 (130) total: 1.74s remaining: 252ms
131: learn: 2072.9918506 test: 2066.3079357 best: 2066.3079357 (131) total: 1.75s remaining: 239ms
132: learn: 2070.6240489 test: 2063.7299178 best: 2063.7299178 (132) total: 1.77s remaining: 226ms
133: learn: 2068.6442290 test: 2061.5763583 best: 2061.5763583 (133) total: 1.78s remaining: 212ms
134: learn: 2067.2269440 test: 2060.0048093 best: 2060.0048093 (134) total: 1.79s remaining: 199ms
135: learn: 2065.8683305 test: 2058.5471152 best: 2058.5471152 (135) total: 1.8s remaining: 186ms
136: learn: 2064.4248285 test: 2057.1017344 best: 2057.1017344 (136) total: 1.82s remaining: 173ms
137: learn: 2063.1120912 test: 2055.8949441 best: 2055.8949441 (137) total: 1.83s remaining: 159ms
138: learn: 2061.9153938 test: 2054.7518810 best: 2054.7518810 (138) total: 1.84s remaining: 146ms
139: learn: 2059.9959761 test: 2052.7433269 best: 2052.7433269 (139) total: 1.86s remaining: 133ms
140: learn: 2058.1772218 test: 2050.6055788 best: 2050.6055788 (140) total: 1.87s remaining: 120ms
141: learn: 2056.6450085 test: 2049.3657099 best: 2049.3657099 (141) total: 1.89s remaining: 106ms
142: learn: 2055.3297857 test: 2047.8645636 best: 2047.8645636 (142) total: 1.9s remaining: 92.9ms
143: learn: 2054.1554328 test: 2046.7526621 best: 2046.7526621 (143) total: 1.91s remaining: 79.6ms
144: learn: 2052.7015149 test: 2045.5516282 best: 2045.5516282 (144) total: 1.92s remaining: 66.2ms

144: learn: 2052.7915149 test: 2045.5516282 best: 2045.5516282 (144) total: 1.92s remaining: 66.3ms
145: learn: 2051.1831873 test: 2043.9383738 best: 2043.9383738 (145) total: 1.94s remaining: 53ms
146: learn: 2049.9984131 test: 2042.8013990 best: 2042.8013990 (146) total: 1.95s remaining: 39.8ms
147: learn: 2048.9132371 test: 2041.6059502 best: 2041.6059502 (147) total: 1.96s remaining: 26.5ms
148: learn: 2047.4464152 test: 2040.0490841 best: 2040.0490841 (148) total: 1.98s remaining: 13.3ms
149: learn: 2046.4274296 test: 2038.7033683 best: 2038.7033683 (149) total: 1.99s remaining: 0us

bestTest = 2038.703368

bestIteration = 149

9: loss: 2038.7033683 best: 2038.7033683 (9) total: 16s remaining: 2m 17s
0: learn: 6820.7403064 test: 6849.0949443 best: 6849.0949443 (0) total: 14.4ms remaining: 2.15s
1: learn: 6663.6570013 test: 6692.2279647 best: 6692.2279647 (1) total: 27.2ms remaining: 2.01s
2: learn: 6511.9921738 test: 6540.6944200 best: 6540.6944200 (2) total: 40.4ms remaining: 1.98s
3: learn: 6366.0072014 test: 6394.9927471 best: 6394.9927471 (3) total: 56.8ms remaining: 2.07s
4: learn: 6224.2466447 test: 6253.5697078 best: 6253.5697078 (4) total: 70.5ms remaining: 2.04s
5: learn: 6088.8782381 test: 6118.2580239 best: 6118.2580239 (5) total: 83.6ms remaining: 2.01s
6: learn: 5958.6329696 test: 5988.1242310 best: 5988.1242310 (6) total: 97.5ms remaining: 1.99s
7: learn: 5833.0984365 test: 5862.3747453 best: 5862.3747453 (7) total: 113ms remaining: 2s
8: learn: 5710.0608919 test: 5739.7510712 best: 5739.7510712 (8) total: 126ms remaining: 1.98s
9: learn: 5591.8232489 test: 5621.8971129 best: 5621.8971129 (9) total: 139ms remaining: 1.95s
10: learn: 5478.3851029 test: 5508.8689766 best: 5508.8689766 (10) total: 153ms remaining: 1.94s
11: learn: 5369.4116200 test: 5400.0704561 best: 5400.0704561 (11) total: 166ms remaining: 1.91s
12: learn: 5264.6704204 test: 5295.6790537 best: 5295.6790537 (12) total: 180ms remaining: 1.9s
13: learn: 5163.8640691 test: 5194.7708194 best: 5194.7708194 (13) total: 195ms remaining: 1.89s
14: learn: 5065.0899236 test: 5095.6230425 best: 5095.6230425 (14) total: 210ms remaining: 1.89s
15: learn: 4971.6182416 test: 5002.0353631 best: 5002.0353631 (15) total: 225ms remaining: 1.89s
16: learn: 4882.0843808 test: 4912.5121379 best: 4912.5121379 (16) total: 239ms remaining: 1.87s
17: learn: 4794.6769056 test: 4825.2522299 best: 4825.2522299 (17) total: 256ms remaining: 1.88s
18: learn: 4711.3899037 test: 4741.6510333 best: 4741.6510333 (18) total: 270ms remaining: 1.86s
19: learn: 4630.2815964 test: 4660.1772844 best: 4660.1772844 (19) total: 283ms remaining: 1.84s
20: learn: 4553.4291782 test: 4583.2650551 best: 4583.2650551 (20) total: 296ms remaining: 1.82s
21: learn: 4479.7078055 test: 4509.2743572 best: 4509.2743572 (21) total: 310ms remaining: 1.8s
22: learn: 4407.1719057 test: 4436.6266729 best: 4436.6266729 (22) total: 325ms remaining: 1.79s
23: learn: 4336.8064509 test: 4365.7962196 best: 4365.7962196 (23) total: 339ms remaining: 1.78s
24: learn: 4269.1603617 test: 4297.7030338 best: 4297.7030338 (24) total: 355ms remaining: 1.78s
25: learn: 4204.0031258 test: 4232.1305961 best: 4232.1305961 (25) total: 369ms remaining: 1.76s
26: learn: 4143.4705546 test: 4171.3099055 best: 4171.3099055 (26) total: 383ms remaining: 1.74s
27: learn: 4083.2869395 test: 4110.8152682 best: 4110.8152682 (27) total: 397ms remaining: 1.73s
28: learn: 4025.8581679 test: 4052.9015707 best: 4052.9015707 (28) total: 410ms remaining: 1.71s
29: learn: 3971.4262898 test: 3997.9541780 best: 3997.9541780 (29) total: 423ms remaining: 1.69s
30: learn: 3920.0572137 test: 3946.1276720 best: 3946.1276720 (30) total: 438ms remaining: 1.68s

31: learn: 3870.1370365 test: 3896.0064202 best: 3896.0064202 (31) total: 457ms remaining: 1.68s
32: learn: 3823.2805697 test: 3848.7257910 best: 3848.7257910 (32) total: 472ms remaining: 1.67s
33: learn: 3775.5387504 test: 3800.6135901 best: 3800.6135901 (33) total: 487ms remaining: 1.66s
34: learn: 3729.2306303 test: 3753.9813225 best: 3753.9813225 (34) total: 501ms remaining: 1.64s
35: learn: 3687.5916200 test: 3712.0013296 best: 3712.0013296 (35) total: 514ms remaining: 1.63s
36: learn: 3645.4592028 test: 3669.4122356 best: 3669.4122356 (36) total: 527ms remaining: 1.61s
37: learn: 3605.0499678 test: 3628.9308370 best: 3628.9308370 (37) total: 540ms remaining: 1.59s
38: learn: 3566.6664541 test: 3590.2579658 best: 3590.2579658 (38) total: 555ms remaining: 1.58s
39: learn: 3530.0559413 test: 3553.1637746 best: 3553.1637746 (39) total: 568ms remaining: 1.56s
40: learn: 3494.1601588 test: 3516.9582879 best: 3516.9582879 (40) total: 581ms remaining: 1.54s
41: learn: 3459.1476111 test: 3481.7207622 best: 3481.7207622 (41) total: 593ms remaining: 1.53s
42: learn: 3426.9226636 test: 3448.9543432 best: 3448.9543432 (42) total: 607ms remaining: 1.51s
43: learn: 3395.8813656 test: 3417.4549214 best: 3417.4549214 (43) total: 620ms remaining: 1.49s
44: learn: 3364.2870004 test: 3385.7442454 best: 3385.7442454 (44) total: 632ms remaining: 1.47s
45: learn: 3332.5995595 test: 3353.3517055 best: 3353.3517055 (45) total: 651ms remaining: 1.47s
46: learn: 3301.8748995 test: 3322.0055113 best: 3322.0055113 (46) total: 664ms remaining: 1.46s
47: learn: 3275.1677894 test: 3294.9999425 best: 3294.9999425 (47) total: 678ms remaining: 1.44s
48: learn: 3247.3954403 test: 3266.5446881 best: 3266.5446881 (48) total: 691ms remaining: 1.42s
49: learn: 3221.9234926 test: 3240.4790437 best: 3240.4790437 (49) total: 704ms remaining: 1.41s
50: learn: 3196.3480157 test: 3214.7680952 best: 3214.7680952 (50) total: 717ms remaining: 1.39s
51: learn: 3173.2677078 test: 3191.0771407 best: 3191.0771407 (51) total: 730ms remaining: 1.38s
52: learn: 3148.2229496 test: 3165.6909829 best: 3165.6909829 (52) total: 746ms remaining: 1.36s
53: learn: 3125.0347122 test: 3141.9804451 best: 3141.9804451 (53) total: 760ms remaining: 1.35s
54: learn: 3102.2696958 test: 3118.9425836 best: 3118.9425836 (54) total: 773ms remaining: 1.33s
55: learn: 3080.6873233 test: 3097.2122878 best: 3097.2122878 (55) total: 787ms remaining: 1.32s
56: learn: 3060.5065517 test: 3076.6206712 best: 3076.6206712 (56) total: 799ms remaining: 1.3s
57: learn: 3040.3702345 test: 3055.9251734 best: 3055.9251734 (57) total: 812ms remaining: 1.29s
58: learn: 3021.4176817 test: 3036.5498379 best: 3036.5498379 (58) total: 826ms remaining: 1.27s
59: learn: 3004.0169468 test: 3018.7055001 best: 3018.7055001 (59) total: 839ms remaining: 1.26s
60: learn: 2987.5411908 test: 3001.6668880 best: 3001.6668880 (60) total: 855ms remaining: 1.25s
61: learn: 2971.1660870 test: 2985.0311473 best: 2985.0311473 (61) total: 867ms remaining: 1.23s
62: learn: 2953.9804361 test: 2967.6940342 best: 2967.6940342 (62) total: 879ms remaining: 1.21s
63: learn: 2936.8926831 test: 2950.2029662 best: 2950.2029662 (63) total: 891ms remaining: 1.2s
64: learn: 2922.8316085 test: 2935.6652738 best: 2935.6652738 (64) total: 904ms remaining: 1.18s
65: learn: 2907.2421924 test: 2919.7440129 best: 2919.7440129 (65) total: 918ms remaining: 1.17s
66: learn: 2892.7696615 test: 2904.8550549 best: 2904.8550549 (66) total: 932ms remaining: 1.15s
67: learn: 2878.6806545 test: 2890.2190683 best: 2890.2190683 (67) total: 945ms remaining: 1.14s
68: learn: 2864.5643477 test: 2875.9555462 best: 2875.9555462 (68) total: 957ms remaining: 1.12s
69: learn: 2851.6169151 test: 2862.6117607 best: 2862.6117607 (69) total: 971ms remaining: 1.11s
70: learn: 2839.2277731 test: 2849.7624344 best: 2849.7624344 (70) total: 982ms remaining: 1.09s
71: learn: 2826.6326538 test: 2837.0186819 best: 2837.0186819 (71) total: 995ms remaining: 1.08s

72: learn: 2815.0012275 test: 2824.9888289 best: 2824.9888289 (72) total: 1.01s remaining: 1.06s
73: learn: 2804.1105817 test: 2813.7349799 best: 2813.7349799 (73) total: 1.02s remaining: 1.05s
74: learn: 2793.1280872 test: 2802.4505273 best: 2802.4505273 (74) total: 1.03s remaining: 1.03s
75: learn: 2782.9271761 test: 2791.8172488 best: 2791.8172488 (75) total: 1.05s remaining: 1.02s
76: learn: 2771.9897704 test: 2780.6123588 best: 2780.6123588 (76) total: 1.06s remaining: 1s
77: learn: 2762.5265678 test: 2770.8224647 best: 2770.8224647 (77) total: 1.07s remaining: 991ms
78: learn: 2751.4599638 test: 2759.5855462 best: 2759.5855462 (78) total: 1.08s remaining: 976ms
79: learn: 2741.6772644 test: 2749.5212590 best: 2749.5212590 (79) total: 1.1s remaining: 962ms
80: learn: 2732.9504192 test: 2740.4073682 best: 2740.4073682 (80) total: 1.11s remaining: 946ms
81: learn: 2724.3731064 test: 2731.3810060 best: 2731.3810060 (81) total: 1.12s remaining: 932ms
82: learn: 2716.2326488 test: 2722.7860549 best: 2722.7860549 (82) total: 1.14s remaining: 917ms
83: learn: 2708.5627961 test: 2714.7940880 best: 2714.7940880 (83) total: 1.15s remaining: 904ms
84: learn: 2701.0459690 test: 2706.7962653 best: 2706.7962653 (84) total: 1.16s remaining: 890ms
85: learn: 2693.3296788 test: 2699.1325932 best: 2699.1325932 (85) total: 1.18s remaining: 875ms
86: learn: 2686.0732101 test: 2691.6025863 best: 2691.6025863 (86) total: 1.19s remaining: 860ms
87: learn: 2679.3045905 test: 2684.5239532 best: 2684.5239532 (87) total: 1.2s remaining: 846ms
88: learn: 2671.9513400 test: 2677.0678501 best: 2677.0678501 (88) total: 1.21s remaining: 832ms
89: learn: 2664.9535353 test: 2669.8006064 best: 2669.8006064 (89) total: 1.23s remaining: 818ms
90: learn: 2658.1723471 test: 2663.0861673 best: 2663.0861673 (90) total: 1.25s remaining: 807ms
91: learn: 2651.9437553 test: 2656.5614277 best: 2656.5614277 (91) total: 1.26s remaining: 796ms
92: learn: 2645.7482305 test: 2650.2457691 best: 2650.2457691 (92) total: 1.27s remaining: 782ms
93: learn: 2640.0579160 test: 2644.6270098 best: 2644.6270098 (93) total: 1.29s remaining: 767ms
94: learn: 2634.4358364 test: 2638.7585642 best: 2638.7585642 (94) total: 1.3s remaining: 752ms
95: learn: 2628.7920352 test: 2632.9017119 best: 2632.9017119 (95) total: 1.31s remaining: 737ms
96: learn: 2622.1062697 test: 2626.1065635 best: 2626.1065635 (96) total: 1.32s remaining: 723ms
97: learn: 2616.4903900 test: 2620.3890161 best: 2620.3890161 (97) total: 1.33s remaining: 708ms
98: learn: 2611.0773555 test: 2614.6715974 best: 2614.6715974 (98) total: 1.35s remaining: 694ms
99: learn: 2603.5337394 test: 2607.0015131 best: 2607.0015131 (99) total: 1.36s remaining: 680ms
100: learn: 2598.4459434 test: 2601.4396843 best: 2601.4396843 (100) total: 1.37s remaining: 665ms
101: learn: 2593.0565175 test: 2595.8951566 best: 2595.8951566 (101) total: 1.38s remaining: 651ms
102: learn: 2588.0124117 test: 2590.5690965 best: 2590.5690965 (102) total: 1.4s remaining: 637ms
103: learn: 2582.9318853 test: 2585.4044657 best: 2585.4044657 (103) total: 1.41s remaining: 623ms
104: learn: 2578.1374828 test: 2580.3958868 best: 2580.3958868 (104) total: 1.42s remaining: 609ms
105: learn: 2573.4120667 test: 2575.5946067 best: 2575.5946067 (105) total: 1.43s remaining: 595ms
106: learn: 2566.6135344 test: 2568.7202284 best: 2568.7202284 (106) total: 1.45s remaining: 582ms
107: learn: 2561.4033190 test: 2563.5558206 best: 2563.5558206 (107) total: 1.46s remaining: 568ms
108: learn: 2556.5035425 test: 2558.4728326 best: 2558.4728326 (108) total: 1.47s remaining: 554ms
109: learn: 2550.1095710 test: 2551.9607482 best: 2551.9607482 (109) total: 1.49s remaining: 540ms
110: learn: 2545.8352110 test: 2547.4058760 best: 2547.4058760 (110) total: 1.5s remaining: 526ms
111: learn: 2541.1459541 test: 2542.8290995 best: 2542.8290995 (111) total: 1.51s remaining: 512ms
112: learn: 2536.6354073 test: 2538.4104379 best: 2538.4104379 (112) total: 1.52s remaining: 498ms

113: learn: 2532.3385201 test: 2533.7283576 best: 2533.7283576 (113) total: 1.53s remaining: 484ms
114: learn: 2526.5042205 test: 2527.7819683 best: 2527.7819683 (114) total: 1.55s remaining: 471ms
115: learn: 2522.4062047 test: 2523.7891641 best: 2523.7891641 (115) total: 1.56s remaining: 457ms
116: learn: 2518.4477949 test: 2519.5677487 best: 2519.5677487 (116) total: 1.57s remaining: 444ms
117: learn: 2512.9887311 test: 2513.9977852 best: 2513.9977852 (117) total: 1.59s remaining: 431ms
118: learn: 2508.9737392 test: 2509.5633229 best: 2509.5633229 (118) total: 1.6s remaining: 417ms
119: learn: 2505.1069093 test: 2505.5038757 best: 2505.5038757 (119) total: 1.61s remaining: 403ms
120: learn: 2501.2154552 test: 2501.5692111 best: 2501.5692111 (120) total: 1.63s remaining: 390ms
121: learn: 2497.5302221 test: 2497.5406902 best: 2497.5406902 (121) total: 1.64s remaining: 377ms
122: learn: 2493.8911955 test: 2493.7493685 best: 2493.7493685 (122) total: 1.65s remaining: 363ms
123: learn: 2490.4239045 test: 2490.0827742 best: 2490.0827742 (123) total: 1.67s remaining: 350ms
124: learn: 2486.8590390 test: 2486.3178756 best: 2486.3178756 (124) total: 1.68s remaining: 336ms
125: learn: 2483.1994614 test: 2482.7383540 best: 2482.7383540 (125) total: 1.69s remaining: 323ms
126: learn: 2478.0394922 test: 2477.5157060 best: 2477.5157060 (126) total: 1.71s remaining: 309ms
127: learn: 2474.6787855 test: 2474.2391194 best: 2474.2391194 (127) total: 1.72s remaining: 296ms
128: learn: 2471.3303631 test: 2470.7636608 best: 2470.7636608 (128) total: 1.74s remaining: 283ms
129: learn: 2466.4679273 test: 2465.8386247 best: 2465.8386247 (129) total: 1.75s remaining: 269ms
130: learn: 2463.2875783 test: 2462.3595469 best: 2462.3595469 (130) total: 1.76s remaining: 256ms
131: learn: 2460.0526195 test: 2459.2158815 best: 2459.2158815 (131) total: 1.77s remaining: 242ms
132: learn: 2456.8075138 test: 2455.9923535 best: 2455.9923535 (132) total: 1.79s remaining: 229ms
133: learn: 2453.7711505 test: 2452.7432388 best: 2452.7432388 (133) total: 1.8s remaining: 215ms
134: learn: 2450.4680226 test: 2449.4951557 best: 2449.4951557 (134) total: 1.81s remaining: 202ms
135: learn: 2445.9164563 test: 2444.8838092 best: 2444.8838092 (135) total: 1.83s remaining: 189ms
136: learn: 2442.8850450 test: 2441.6248134 best: 2441.6248134 (136) total: 1.85s remaining: 175ms
137: learn: 2439.9434592 test: 2438.3924309 best: 2438.3924309 (137) total: 1.86s remaining: 162ms
138: learn: 2437.0265074 test: 2435.3020554 best: 2435.3020554 (138) total: 1.87s remaining: 148ms
139: learn: 2434.0980674 test: 2432.4631099 best: 2432.4631099 (139) total: 1.89s remaining: 135ms
140: learn: 2431.2307368 test: 2429.5243539 best: 2429.5243539 (140) total: 1.9s remaining: 121ms
141: learn: 2427.2422375 test: 2425.4296094 best: 2425.4296094 (141) total: 1.92s remaining: 108ms
142: learn: 2423.2131796 test: 2421.3005081 best: 2421.3005081 (142) total: 1.94s remaining: 94.8ms
143: learn: 2420.4672228 test: 2418.6410315 best: 2418.6410315 (143) total: 1.95s remaining: 81.3ms
144: learn: 2417.9063771 test: 2416.1634633 best: 2416.1634633 (144) total: 1.97s remaining: 67.8ms
145: learn: 2415.0808643 test: 2413.3712234 best: 2413.3712234 (145) total: 1.98s remaining: 54.2ms
146: learn: 2412.4193050 test: 2410.7434539 best: 2410.7434539 (146) total: 1.99s remaining: 40.6ms
147: learn: 2408.5237199 test: 2406.7294735 best: 2406.7294735 (147) total: 2s remaining: 27.1ms
148: learn: 2405.9889754 test: 2403.8922592 best: 2403.8922592 (148) total: 2.02s remaining: 13.5ms
149: learn: 2402.3036657 test: 2400.1392681 best: 2400.1392681 (149) total: 2.03s remaining: 0us

bestTest = 2400.139268

bestIteration = 149

0: learn: 6448.8537650 test: 6477.8242313 best: 6477.8242313 (0) total: 18.2ms remaining: 2.71s
1: learn: 5970.9141790 test: 5999.9421404 best: 5999.9421404 (1) total: 33.9ms remaining: 2.51s
2: learn: 5555.1597112 test: 5583.5301203 best: 5583.5301203 (2) total: 52.7ms remaining: 2.58s
3: learn: 5181.2030648 test: 5210.8247718 best: 5210.8247718 (3) total: 69.1ms remaining: 2.52s
4: learn: 4854.4209330 test: 4885.0855810 best: 4885.0855810 (4) total: 89ms remaining: 2.58s
5: learn: 4567.4985492 test: 4597.2415691 best: 4597.2415691 (5) total: 105ms remaining: 2.52s
6: learn: 4324.0498111 test: 4352.8819612 best: 4352.8819612 (6) total: 121ms remaining: 2.47s
7: learn: 4104.7082264 test: 4131.8530519 best: 4131.8530519 (7) total: 136ms remaining: 2.42s
8: learn: 3917.1973343 test: 3943.2864195 best: 3943.2864195 (8) total: 153ms remaining: 2.39s
9: learn: 3748.6668080 test: 3774.5898411 best: 3774.5898411 (9) total: 168ms remaining: 2.35s
10: learn: 3605.2284403 test: 3629.5505324 best: 3629.5505324 (10) total: 183ms remaining: 2.31s
11: learn: 3476.4269165 test: 3500.3938176 best: 3500.3938176 (11) total: 197ms remaining: 2.27s
12: learn: 3370.2091758 test: 3392.7049798 best: 3392.7049798 (12) total: 211ms remaining: 2.22s
13: learn: 3264.2539441 test: 3284.5464217 best: 3284.5464217 (13) total: 225ms remaining: 2.19s
14: learn: 3174.1758941 test: 3192.4902468 best: 3192.4902468 (14) total: 239ms remaining: 2.15s
15: learn: 3100.6339145 test: 3117.6564989 best: 3117.6564989 (15) total: 253ms remaining: 2.12s
16: learn: 3028.0278253 test: 3043.7706808 best: 3043.7706808 (16) total: 266ms remaining: 2.08s
17: learn: 2968.0427276 test: 2982.1332850 best: 2982.1332850 (17) total: 284ms remaining: 2.08s
18: learn: 2912.5931617 test: 2926.2000904 best: 2926.2000904 (18) total: 298ms remaining: 2.06s
19: learn: 2867.6966586 test: 2879.7114966 best: 2879.7114966 (19) total: 312ms remaining: 2.03s
20: learn: 2822.7514021 test: 2833.7866075 best: 2833.7866075 (20) total: 326ms remaining: 2s
21: learn: 2786.4952852 test: 2796.6259743 best: 2796.6259743 (21) total: 340ms remaining: 1.98s
22: learn: 2752.7712758 test: 2761.3670084 best: 2761.3670084 (22) total: 354ms remaining: 1.96s
23: learn: 2725.2498560 test: 2732.6718569 best: 2732.6718569 (23) total: 368ms remaining: 1.93s
24: learn: 2699.6107030 test: 2706.2377956 best: 2706.2377956 (24) total: 384ms remaining: 1.92s
25: learn: 2676.8010677 test: 2682.3590195 best: 2682.3590195 (25) total: 397ms remaining: 1.89s
26: learn: 2655.0097608 test: 2659.0019389 best: 2659.0019389 (26) total: 409ms remaining: 1.86s
27: learn: 2635.0426709 test: 2638.6435979 best: 2638.6435979 (27) total: 422ms remaining: 1.84s
28: learn: 2608.4304269 test: 2611.5592289 best: 2611.5592289 (28) total: 435ms remaining: 1.81s
29: learn: 2588.9023707 test: 2592.1744786 best: 2592.1744786 (29) total: 447ms remaining: 1.79s
30: learn: 2573.3901394 test: 2575.5826760 best: 2575.5826760 (30) total: 459ms remaining: 1.76s
31: learn: 2558.0292824 test: 2559.6015610 best: 2559.6015610 (31) total: 472ms remaining: 1.74s
32: learn: 2542.8713628 test: 2544.6092752 best: 2544.6092752 (32) total: 489ms remaining: 1.73s
33: learn: 2529.2049546 test: 2530.7613050 best: 2530.7613050 (33) total: 502ms remaining: 1.71s
34: learn: 2510.3868261 test: 2511.5194890 best: 2511.5194890 (34) total: 514ms remaining: 1.69s
35: learn: 2498.3153889 test: 2498.8946450 best: 2498.8946450 (35) total: 527ms remaining: 1.67s
36: learn: 2486.0073005 test: 2485.4720024 best: 2485.4720024 (36) total: 540ms remaining: 1.65s
37: learn: 2474.5101531 test: 2474.2461165 best: 2474.2461165 (37) total: 552ms remaining: 1.63s
38: learn: 2464.0130868 test: 2463.4622331 best: 2463.4622331 (38) total: 565ms remaining: 1.61s
39: learn: 2454.0016590 test: 2453.0970027 best: 2453.0970027 (39) total: 580ms remaining: 1.6s
40: learn: 2443.7860493 test: 2441.7710894 best: 2441.7710894 (40) total: 593ms remaining: 1.58s

41: learn: 2428.8337831 test: 2426.6194504 best: 2426.6194504 (41) total: 606ms remaining: 1.56s
42: learn: 2419.4343341 test: 2417.6445753 best: 2417.6445753 (42) total: 619ms remaining: 1.54s
43: learn: 2410.8373225 test: 2409.3083223 best: 2409.3083223 (43) total: 632ms remaining: 1.52s
44: learn: 2398.7065829 test: 2396.8491270 best: 2396.8491270 (44) total: 645ms remaining: 1.5s
45: learn: 2390.1553170 test: 2388.2827684 best: 2388.2827684 (45) total: 657ms remaining: 1.49s
46: learn: 2381.9139000 test: 2379.5243016 best: 2379.5243016 (46) total: 670ms remaining: 1.47s
47: learn: 2373.4918859 test: 2370.6078223 best: 2370.6078223 (47) total: 686ms remaining: 1.46s
48: learn: 2366.3315941 test: 2362.4356188 best: 2362.4356188 (48) total: 698ms remaining: 1.44s
49: learn: 2359.2350920 test: 2355.0527812 best: 2355.0527812 (49) total: 710ms remaining: 1.42s
50: learn: 2348.8985309 test: 2344.5242385 best: 2344.5242385 (50) total: 722ms remaining: 1.4s
51: learn: 2342.6410974 test: 2338.5918965 best: 2338.5918965 (51) total: 734ms remaining: 1.38s
52: learn: 2336.4741234 test: 2332.1633611 best: 2332.1633611 (52) total: 747ms remaining: 1.37s
53: learn: 2330.5277721 test: 2326.3679459 best: 2326.3679459 (53) total: 761ms remaining: 1.35s
54: learn: 2325.0720967 test: 2321.1320861 best: 2321.1320861 (54) total: 773ms remaining: 1.33s
55: learn: 2316.7907508 test: 2312.5616434 best: 2312.5616434 (55) total: 788ms remaining: 1.32s
56: learn: 2311.1511691 test: 2306.6568054 best: 2306.6568054 (56) total: 801ms remaining: 1.31s
57: learn: 2305.9232715 test: 2301.0551509 best: 2301.0551509 (57) total: 813ms remaining: 1.29s
58: learn: 2297.2724341 test: 2292.2299719 best: 2292.2299719 (58) total: 825ms remaining: 1.27s
59: learn: 2292.7086728 test: 2287.5559769 best: 2287.5559769 (59) total: 838ms remaining: 1.26s
60: learn: 2287.7846602 test: 2282.9123268 best: 2282.9123268 (60) total: 850ms remaining: 1.24s
61: learn: 2282.5256787 test: 2277.4055160 best: 2277.4055160 (61) total: 862ms remaining: 1.22s
62: learn: 2276.8136162 test: 2270.7709502 best: 2270.7709502 (62) total: 879ms remaining: 1.21s
63: learn: 2271.0691145 test: 2264.9531355 best: 2264.9531355 (63) total: 894ms remaining: 1.2s
64: learn: 2264.6228734 test: 2258.3461416 best: 2258.3461416 (64) total: 908ms remaining: 1.19s
65: learn: 2260.2326146 test: 2254.0959727 best: 2254.0959727 (65) total: 920ms remaining: 1.17s
66: learn: 2256.1309175 test: 2250.3148329 best: 2250.3148329 (66) total: 932ms remaining: 1.15s
67: learn: 2251.9394340 test: 2245.5663245 best: 2245.5663245 (67) total: 944ms remaining: 1.14s
68: learn: 2246.7618258 test: 2240.0010322 best: 2240.0010322 (68) total: 955ms remaining: 1.12s
69: learn: 2242.7037001 test: 2235.7960116 best: 2235.7960116 (69) total: 967ms remaining: 1.1s
70: learn: 2239.1371086 test: 2232.3238462 best: 2232.3238462 (70) total: 981ms remaining: 1.09s
71: learn: 2233.6132481 test: 2226.5431434 best: 2226.5431434 (71) total: 994ms remaining: 1.08s
72: learn: 2230.1893622 test: 2223.3541013 best: 2223.3541013 (72) total: 1s remaining: 1.06s
73: learn: 2225.1927541 test: 2218.0098739 best: 2218.0098739 (73) total: 1.02s remaining: 1.05s
74: learn: 2220.2603545 test: 2212.8489126 best: 2212.8489126 (74) total: 1.03s remaining: 1.03s
75: learn: 2216.0318456 test: 2208.8102099 best: 2208.8102099 (75) total: 1.04s remaining: 1.02s
76: learn: 2212.0151909 test: 2205.0119957 best: 2205.0119957 (76) total: 1.06s remaining: 1s
77: learn: 2208.7772003 test: 2201.9514790 best: 2201.9514790 (77) total: 1.07s remaining: 992ms
78: learn: 2204.2917912 test: 2197.2333185 best: 2197.2333185 (78) total: 1.09s remaining: 977ms
79: learn: 2200.0116645 test: 2192.6383401 best: 2192.6383401 (79) total: 1.1s remaining: 962ms
80: learn: 2197.0304960 test: 2189.1822947 best: 2189.1822947 (80) total: 1.11s remaining: 947ms
81: learn: 2192.7296552 test: 2184.7599346 best: 2184.7599346 (81) total: 1.12s remaining: 933ms

82: learn: 2190.1062175 test: 2182.2074072 best: 2182.2074072 (82) total: 1.14s remaining: 917ms
83: learn: 2186.8654004 test: 2178.8022895 best: 2178.8022895 (83) total: 1.15s remaining: 902ms
84: learn: 2183.1665145 test: 2174.9281725 best: 2174.9281725 (84) total: 1.16s remaining: 890ms
85: learn: 2180.1391704 test: 2172.1792510 best: 2172.1792510 (85) total: 1.18s remaining: 878ms
86: learn: 2177.3065032 test: 2169.4633315 best: 2169.4633315 (86) total: 1.2s remaining: 867ms
87: learn: 2174.2133575 test: 2166.3350880 best: 2166.3350880 (87) total: 1.21s remaining: 853ms
88: learn: 2171.4038727 test: 2163.6146697 best: 2163.6146697 (88) total: 1.22s remaining: 838ms
89: learn: 2168.9426334 test: 2160.9819573 best: 2160.9819573 (89) total: 1.24s remaining: 824ms
90: learn: 2165.7497373 test: 2157.6101073 best: 2157.6101073 (90) total: 1.25s remaining: 809ms
91: learn: 2163.3270176 test: 2155.5572743 best: 2155.5572743 (91) total: 1.26s remaining: 795ms
92: learn: 2159.4658777 test: 2151.6136959 best: 2151.6136959 (92) total: 1.28s remaining: 783ms
93: learn: 2156.1755000 test: 2148.0558708 best: 2148.0558708 (93) total: 1.29s remaining: 769ms
94: learn: 2153.2349646 test: 2145.2731511 best: 2145.2731511 (94) total: 1.3s remaining: 755ms
95: learn: 2150.7289007 test: 2142.7166928 best: 2142.7166928 (95) total: 1.31s remaining: 740ms
96: learn: 2146.6514988 test: 2138.4010798 best: 2138.4010798 (96) total: 1.33s remaining: 725ms
97: learn: 2143.9659357 test: 2135.9216152 best: 2135.9216152 (97) total: 1.34s remaining: 711ms
98: learn: 2141.6398546 test: 2133.8806672 best: 2133.8806672 (98) total: 1.35s remaining: 696ms
99: learn: 2139.0210045 test: 2131.2171361 best: 2131.2171361 (99) total: 1.36s remaining: 682ms
100: learn: 2136.4652389 test: 2128.8591243 best: 2128.8591243 (100) total: 1.38s remaining: 668ms
101: learn: 2133.7478838 test: 2126.1272281 best: 2126.1272281 (101) total: 1.39s remaining: 653ms
102: learn: 2131.6046964 test: 2123.8785528 best: 2123.8785528 (102) total: 1.4s remaining: 639ms
103: learn: 2129.5663446 test: 2121.5619864 best: 2121.5619864 (103) total: 1.41s remaining: 625ms
104: learn: 2126.4196805 test: 2118.4815059 best: 2118.4815059 (104) total: 1.43s remaining: 611ms
105: learn: 2124.3561564 test: 2116.5565372 best: 2116.5565372 (105) total: 1.44s remaining: 597ms
106: learn: 2122.4472387 test: 2114.7115809 best: 2114.7115809 (106) total: 1.45s remaining: 583ms
107: learn: 2119.6855576 test: 2111.7204210 best: 2111.7204210 (107) total: 1.46s remaining: 568ms
108: learn: 2116.6152113 test: 2108.6841810 best: 2108.6841810 (108) total: 1.48s remaining: 556ms
109: learn: 2114.7013521 test: 2106.9191441 best: 2106.9191441 (109) total: 1.49s remaining: 542ms
110: learn: 2112.9336988 test: 2105.3816721 best: 2105.3816721 (110) total: 1.5s remaining: 528ms
111: learn: 2109.9692940 test: 2102.2920405 best: 2102.2920405 (111) total: 1.51s remaining: 514ms
112: learn: 2108.0387859 test: 2100.3141799 best: 2100.3141799 (112) total: 1.53s remaining: 500ms
113: learn: 2106.3157034 test: 2098.6894014 best: 2098.6894014 (113) total: 1.54s remaining: 486ms
114: learn: 2103.8017157 test: 2095.9669569 best: 2095.9669569 (114) total: 1.55s remaining: 472ms
115: learn: 2101.9711117 test: 2094.3239011 best: 2094.3239011 (115) total: 1.56s remaining: 459ms
116: learn: 2099.8540265 test: 2092.1687352 best: 2092.1687352 (116) total: 1.58s remaining: 445ms
117: learn: 2097.8504234 test: 2090.4367187 best: 2090.4367187 (117) total: 1.59s remaining: 431ms
118: learn: 2096.2067675 test: 2088.8521436 best: 2088.8521436 (118) total: 1.6s remaining: 418ms
119: learn: 2093.7352950 test: 2086.4391333 best: 2086.4391333 (119) total: 1.61s remaining: 404ms
120: learn: 2092.2241307 test: 2085.1948202 best: 2085.1948202 (120) total: 1.63s remaining: 390ms
121: learn: 2090.6056698 test: 2083.3783702 best: 2083.3783702 (121) total: 1.64s remaining: 376ms
122: learn: 2089.0782729 test: 2081.9924496 best: 2081.9924496 (122) total: 1.65s remaining: 363ms

123: learn: 2086.8185817 test: 2079.5405577 best: 2079.5405577 (123) total: 1.67s remaining: 350ms
124: learn: 2085.3836707 test: 2078.4414207 best: 2078.4414207 (124) total: 1.68s remaining: 337ms
125: learn: 2082.8882521 test: 2075.9786848 best: 2075.9786848 (125) total: 1.7s remaining: 324ms
126: learn: 2080.8620747 test: 2073.9995722 best: 2073.9995722 (126) total: 1.71s remaining: 310ms
127: learn: 2079.3184170 test: 2072.5567764 best: 2072.5567764 (127) total: 1.72s remaining: 296ms
128: learn: 2077.8846242 test: 2071.2756737 best: 2071.2756737 (128) total: 1.74s remaining: 282ms
129: learn: 2076.5752248 test: 2069.8496395 best: 2069.8496395 (129) total: 1.75s remaining: 269ms
130: learn: 2074.4187766 test: 2067.5102568 best: 2067.5102568 (130) total: 1.77s remaining: 256ms
131: learn: 2073.0567734 test: 2066.3599114 best: 2066.3599114 (131) total: 1.78s remaining: 243ms
132: learn: 2070.6888169 test: 2063.7816957 best: 2063.7816957 (132) total: 1.79s remaining: 229ms
133: learn: 2068.7089204 test: 2061.6280813 best: 2061.6280813 (133) total: 1.8s remaining: 215ms
134: learn: 2067.2916954 test: 2060.0568965 best: 2060.0568965 (134) total: 1.81s remaining: 202ms
135: learn: 2065.9327798 test: 2058.5988419 best: 2058.5988419 (135) total: 1.83s remaining: 188ms
136: learn: 2064.4895743 test: 2057.1537443 best: 2057.1537443 (136) total: 1.84s remaining: 175ms
137: learn: 2063.1765822 test: 2055.9467173 best: 2055.9467173 (137) total: 1.85s remaining: 161ms
138: learn: 2061.9797137 test: 2054.8033659 best: 2054.8033659 (138) total: 1.87s remaining: 148ms
139: learn: 2060.0603917 test: 2052.7948825 best: 2052.7948825 (139) total: 1.88s remaining: 134ms
140: learn: 2058.2415601 test: 2050.6570814 best: 2050.6570814 (140) total: 1.89s remaining: 121ms
141: learn: 2056.7094041 test: 2049.4172912 best: 2049.4172912 (141) total: 1.91s remaining: 108ms
142: learn: 2055.3942492 test: 2047.9162169 best: 2047.9162169 (142) total: 1.92s remaining: 94.2ms
143: learn: 2054.2210916 test: 2046.8045308 best: 2046.8045308 (143) total: 1.94s remaining: 80.7ms
144: learn: 2052.8572179 test: 2045.6034878 best: 2045.6034878 (144) total: 1.95s remaining: 67.2ms
145: learn: 2051.2487765 test: 2043.9901278 best: 2043.9901278 (145) total: 1.97s remaining: 53.9ms
146: learn: 2050.0638352 test: 2042.8528811 best: 2042.8528811 (146) total: 1.98s remaining: 40.4ms
147: learn: 2048.9780579 test: 2041.6568011 best: 2041.6568011 (147) total: 1.99s remaining: 26.9ms
148: learn: 2047.5116244 test: 2040.1000208 best: 2040.1000208 (148) total: 2s remaining: 13.5ms
149: learn: 2046.4965686 test: 2038.7594661 best: 2038.7594661 (149) total: 2.02s remaining: 0us

bestTest = 2038.759466

bestIteration = 149

11: loss: 2038.7594661 best: 2038.7033683 (9) total: 20.1s remaining: 2m 20s
0: learn: 6820.7440526 test: 6849.0986708 best: 6849.0986708 (0) total: 14.2ms remaining: 2.12s
1: learn: 6663.6642484 test: 6692.2351813 best: 6692.2351813 (1) total: 29.1ms remaining: 2.15s
2: learn: 6512.0023182 test: 6540.7045310 best: 6540.7045310 (2) total: 43.5ms remaining: 2.13s
3: learn: 6366.0200893 test: 6395.0055944 best: 6395.0055944 (3) total: 57.4ms remaining: 2.09s
4: learn: 6224.2624048 test: 6253.5854171 best: 6253.5854171 (4) total: 70.2ms remaining: 2.04s
5: learn: 6088.8962335 test: 6118.2759693 best: 6118.2759693 (5) total: 84.3ms remaining: 2.02s
6: learn: 5958.6533209 test: 5988.1445280 best: 5988.1445280 (6) total: 97.8ms remaining: 2s
7: learn: 5833.1201195 test: 5862.3963790 best: 5862.3963790 (7) total: 112ms remaining: 1.99s
8: learn: 5710.0854409 test: 5739.7755508 best: 5739.7755508 (8) total: 129ms remaining: 2.03s
9: learn: 5591.8504017 test: 5621.9241786 best: 5621.9241786 (9) total: 142ms remaining: 1.99s

0: learn: 5478.4145890 test: 5508.8983579 best: 5508.8983579 (0) total: 155ms remaining: 1.96s
1: learn: 5369.4425761 test: 5400.1013069 best: 5400.1013069 (1) total: 168ms remaining: 1.93s
2: learn: 5264.7032887 test: 5295.7118032 best: 5295.7118032 (2) total: 182ms remaining: 1.91s
3: learn: 5163.8974715 test: 5194.8041115 best: 5194.8041115 (3) total: 196ms remaining: 1.9s
4: learn: 5065.1243456 test: 5095.6573645 best: 5095.6573645 (4) total: 211ms remaining: 1.9s
5: learn: 4971.6530299 test: 5002.0700604 best: 5002.0700604 (5) total: 227ms remaining: 1.9s
6: learn: 4882.1201518 test: 4912.5478196 best: 4912.5478196 (6) total: 239ms remaining: 1.87s
7: learn: 4794.7148428 test: 4825.2900412 best: 4825.2900412 (7) total: 252ms remaining: 1.85s
8: learn: 4711.4277054 test: 4741.6887190 best: 4741.6887190 (8) total: 265ms remaining: 1.83s
9: learn: 4630.3209759 test: 4660.2165767 best: 4660.2165767 (9) total: 278ms remaining: 1.8s
10: learn: 4553.4687273 test: 4583.3045238 best: 4583.3045238 (10) total: 290ms remaining: 1.78s
11: learn: 4479.7470879 test: 4509.3135712 best: 4509.3135712 (11) total: 305ms remaining: 1.77s
12: learn: 4407.2110327 test: 4436.6657420 best: 4436.6657420 (12) total: 319ms remaining: 1.76s
13: learn: 4336.8476236 test: 4365.8373908 best: 4365.8373908 (13) total: 336ms remaining: 1.77s
14: learn: 4269.2015251 test: 4297.7442105 best: 4297.7442105 (14) total: 349ms remaining: 1.74s
15: learn: 4204.0441805 test: 4232.1716796 best: 4232.1716796 (15) total: 363ms remaining: 1.73s
16: learn: 4143.5119537 test: 4171.3513482 best: 4171.3513482 (16) total: 376ms remaining: 1.71s
17: learn: 4083.3301481 test: 4110.8585949 best: 4110.8585949 (17) total: 389ms remaining: 1.69s
18: learn: 4025.9010598 test: 4052.9445974 best: 4052.9445974 (18) total: 402ms remaining: 1.68s
19: learn: 3971.4687672 test: 3997.9968060 best: 3997.9968060 (19) total: 418ms remaining: 1.67s
20: learn: 3920.0999747 test: 3946.1706159 best: 3946.1706159 (20) total: 431ms remaining: 1.65s
21: learn: 3870.1792045 test: 3896.0487867 best: 3896.0487867 (21) total: 444ms remaining: 1.64s
22: learn: 3823.3226027 test: 3848.7680290 best: 3848.7680290 (22) total: 457ms remaining: 1.62s
23: learn: 3775.5823838 test: 3800.6574857 best: 3800.6574857 (23) total: 469ms remaining: 1.6s
24: learn: 3729.2739325 test: 3754.0249045 best: 3754.0249045 (24) total: 481ms remaining: 1.58s
25: learn: 3687.6345539 test: 3712.0445572 best: 3712.0445572 (25) total: 494ms remaining: 1.56s
26: learn: 3645.5031611 test: 3669.4565709 best: 3669.4565709 (26) total: 508ms remaining: 1.55s
27: learn: 3605.0939022 test: 3628.9751527 best: 3628.9751527 (27) total: 530ms remaining: 1.56s
28: learn: 3566.7095631 test: 3590.3014739 best: 3590.3014739 (28) total: 543ms remaining: 1.55s
29: learn: 3530.0981068 test: 3553.2063510 best: 3553.2063510 (29) total: 557ms remaining: 1.53s
30: learn: 3494.2024389 test: 3517.0009833 best: 3517.0009833 (30) total: 570ms remaining: 1.51s
31: learn: 3459.1896322 test: 3481.7632167 best: 3481.7632167 (31) total: 582ms remaining: 1.5s
32: learn: 3426.9637323 test: 3448.9958558 best: 3448.9958558 (32) total: 594ms remaining: 1.48s
33: learn: 3395.9214971 test: 3417.4955054 best: 3417.4955054 (33) total: 606ms remaining: 1.46s
34: learn: 3364.3270788 test: 3385.7847784 best: 3385.7847784 (34) total: 619ms remaining: 1.44s
35: learn: 3332.6393484 test: 3353.3919711 best: 3353.3919711 (35) total: 634ms remaining: 1.43s
36: learn: 3301.9143820 test: 3322.0454930 best: 3322.0454930 (36) total: 646ms remaining: 1.41s
37: learn: 3275.2063923 test: 3295.0390609 best: 3295.0390609 (37) total: 659ms remaining: 1.4s
38: learn: 3247.4336946 test: 3266.5834781 best: 3266.5834781 (38) total: 672ms remaining: 1.38s
39: learn: 3221.9619252 test: 3240.5180548 best: 3240.5180548 (39) total: 684ms remaining: 1.37s
40: learn: 3196.3863637 test: 3214.8070233 best: 3214.8070233 (40) total: 696ms remaining: 1.35s

51: learn: 3173.3052330 test: 3191.1152554 best: 3191.1152554 (51) total: 708ms remaining: 1.33s
52: learn: 3148.2599703 test: 3165.7286062 best: 3165.7286062 (52) total: 725ms remaining: 1.33s
53: learn: 3125.0713919 test: 3142.0177585 best: 3142.0177585 (53) total: 737ms remaining: 1.31s
54: learn: 3102.3058492 test: 3118.9793848 best: 3118.9793848 (54) total: 750ms remaining: 1.29s
55: learn: 3080.7233650 test: 3097.2489787 best: 3097.2489787 (55) total: 763ms remaining: 1.28s
56: learn: 3060.5428885 test: 3076.6576617 best: 3076.6576617 (56) total: 774ms remaining: 1.26s
57: learn: 3040.4061165 test: 3055.9617254 best: 3055.9617254 (57) total: 787ms remaining: 1.25s
58: learn: 3021.4535372 test: 3036.5863924 best: 3036.5863924 (58) total: 801ms remaining: 1.24s
59: learn: 3004.0520502 test: 3018.7413037 best: 3018.7413037 (59) total: 814ms remaining: 1.22s
60: learn: 2987.5754737 test: 3001.7018751 best: 3001.7018751 (60) total: 828ms remaining: 1.21s
61: learn: 2971.2003215 test: 2985.0660880 best: 2985.0660880 (61) total: 841ms remaining: 1.19s
62: learn: 2954.0145453 test: 2967.7288490 best: 2967.7288490 (62) total: 854ms remaining: 1.18s
63: learn: 2936.9262333 test: 2950.2372298 best: 2950.2372298 (63) total: 867ms remaining: 1.17s
64: learn: 2922.8644336 test: 2935.6988132 best: 2935.6988132 (64) total: 880ms remaining: 1.15s
65: learn: 2907.2744549 test: 2919.7770000 best: 2919.7770000 (65) total: 892ms remaining: 1.13s
66: learn: 2892.8014625 test: 2904.8875915 best: 2904.8875915 (66) total: 904ms remaining: 1.12s
67: learn: 2878.7125477 test: 2890.2517120 best: 2890.2517120 (67) total: 922ms remaining: 1.11s
68: learn: 2864.5961320 test: 2875.9880786 best: 2875.9880786 (68) total: 935ms remaining: 1.1s
69: learn: 2851.6488351 test: 2862.6444933 best: 2862.6444933 (69) total: 947ms remaining: 1.08s
70: learn: 2839.2595660 test: 2849.7950302 best: 2849.7950302 (70) total: 960ms remaining: 1.07s
71: learn: 2826.6643094 test: 2837.0511386 best: 2837.0511386 (71) total: 972ms remaining: 1.05s
72: learn: 2815.0328164 test: 2825.0212881 best: 2825.0212881 (72) total: 984ms remaining: 1.04s
73: learn: 2804.1414714 test: 2813.7667392 best: 2813.7667392 (73) total: 997ms remaining: 1.02s
74: learn: 2793.1586488 test: 2802.4819714 best: 2802.4819714 (74) total: 1.01s remaining: 1.01s
75: learn: 2782.9577984 test: 2791.8488840 best: 2791.8488840 (75) total: 1.02s remaining: 995ms
76: learn: 2772.0199020 test: 2780.6435047 best: 2780.6435047 (76) total: 1.03s remaining: 980ms
77: learn: 2762.5561721 test: 2770.8530807 best: 2770.8530807 (77) total: 1.05s remaining: 966ms
78: learn: 2751.4896977 test: 2759.6162905 best: 2759.6162905 (78) total: 1.06s remaining: 951ms
79: learn: 2741.7064505 test: 2749.5514589 best: 2749.5514589 (79) total: 1.07s remaining: 939ms
80: learn: 2732.9793399 test: 2740.4373410 best: 2740.4373410 (80) total: 1.08s remaining: 925ms
81: learn: 2724.4017830 test: 2731.4107217 best: 2731.4107217 (81) total: 1.1s remaining: 911ms
82: learn: 2716.2612429 test: 2722.8157114 best: 2722.8157114 (82) total: 1.11s remaining: 897ms
83: learn: 2708.5911241 test: 2714.8235196 best: 2714.8235196 (83) total: 1.13s remaining: 887ms
84: learn: 2701.0740558 test: 2706.8254648 best: 2706.8254648 (84) total: 1.14s remaining: 873ms
85: learn: 2693.3582528 test: 2699.1621922 best: 2699.1621922 (85) total: 1.16s remaining: 860ms
86: learn: 2686.1014551 test: 2691.6318452 best: 2691.6318452 (86) total: 1.17s remaining: 846ms
87: learn: 2679.3324759 test: 2684.5528448 best: 2684.5528448 (87) total: 1.18s remaining: 832ms
88: learn: 2671.9798173 test: 2677.0973419 best: 2677.0973419 (88) total: 1.19s remaining: 819ms
89: learn: 2664.9816041 test: 2669.8296852 best: 2669.8296852 (89) total: 1.21s remaining: 805ms
90: learn: 2658.2008701 test: 2663.1156196 best: 2663.1156196 (90) total: 1.22s remaining: 793ms
91: learn: 2651.9722257 test: 2656.5909059 best: 2656.5909059 (91) total: 1.24s remaining: 779ms

92: learn: 2645.7770137 test: 2650.2756161 best: 2650.2756161 (92) total: 1.25s remaining: 765ms
93: learn: 2640.0874568 test: 2644.6575238 best: 2644.6575238 (93) total: 1.26s remaining: 751ms
94: learn: 2634.4651233 test: 2638.7888109 best: 2638.7888109 (94) total: 1.27s remaining: 737ms
95: learn: 2628.8227259 test: 2632.9332807 best: 2632.9332807 (95) total: 1.29s remaining: 723ms
96: learn: 2622.1375095 test: 2626.1386910 best: 2626.1386910 (96) total: 1.3s remaining: 710ms
97: learn: 2616.5218979 test: 2620.4214619 best: 2620.4214619 (97) total: 1.32s remaining: 699ms
98: learn: 2611.1087651 test: 2614.7039985 best: 2614.7039985 (98) total: 1.33s remaining: 685ms
99: learn: 2603.5652585 test: 2607.0340197 best: 2607.0340197 (99) total: 1.34s remaining: 671ms
100: learn: 2598.4777785 test: 2601.4725418 best: 2601.4725418 (100) total: 1.35s remaining: 657ms
101: learn: 2593.0877790 test: 2595.9274378 best: 2595.9274378 (101) total: 1.37s remaining: 644ms
102: learn: 2588.0433827 test: 2590.6010728 best: 2590.6010728 (102) total: 1.38s remaining: 630ms
103: learn: 2582.9630831 test: 2585.4367129 best: 2585.4367129 (103) total: 1.39s remaining: 617ms
104: learn: 2578.1684387 test: 2580.4278772 best: 2580.4278772 (104) total: 1.41s remaining: 603ms
105: learn: 2573.4432160 test: 2575.6268303 best: 2575.6268303 (105) total: 1.42s remaining: 590ms
106: learn: 2566.6450271 test: 2568.7527899 best: 2568.7527899 (106) total: 1.43s remaining: 576ms
107: learn: 2561.4350461 test: 2563.5885735 best: 2563.5885735 (107) total: 1.45s remaining: 563ms
108: learn: 2556.5350770 test: 2558.5054014 best: 2558.5054014 (108) total: 1.46s remaining: 549ms
109: learn: 2550.1411492 test: 2551.9933591 best: 2551.9933591 (109) total: 1.47s remaining: 535ms
110: learn: 2545.8674027 test: 2547.4391299 best: 2547.4391299 (110) total: 1.48s remaining: 521ms
111: learn: 2541.1786260 test: 2542.8627506 best: 2542.8627506 (111) total: 1.5s remaining: 508ms
112: learn: 2536.6683328 test: 2538.4442902 best: 2538.4442902 (112) total: 1.51s remaining: 494ms
113: learn: 2532.3713036 test: 2533.7620776 best: 2533.7620776 (113) total: 1.52s remaining: 482ms
114: learn: 2526.5370340 test: 2527.8157171 best: 2527.8157171 (114) total: 1.54s remaining: 468ms
115: learn: 2522.4393804 test: 2523.8232045 best: 2523.8232045 (115) total: 1.55s remaining: 454ms
116: learn: 2518.4815191 test: 2519.6023661 best: 2519.6023661 (116) total: 1.56s remaining: 441ms
117: learn: 2513.0224585 test: 2514.0324057 best: 2514.0324057 (117) total: 1.57s remaining: 427ms
118: learn: 2509.0076200 test: 2509.5981110 best: 2509.5981110 (118) total: 1.59s remaining: 413ms
119: learn: 2505.1409283 test: 2505.5388258 best: 2505.5388258 (119) total: 1.6s remaining: 400ms
120: learn: 2501.2496081 test: 2501.6043280 best: 2501.6043280 (120) total: 1.61s remaining: 387ms
121: learn: 2497.5642577 test: 2497.5756938 best: 2497.5756938 (121) total: 1.62s remaining: 373ms
122: learn: 2493.9260612 test: 2493.7851413 best: 2493.7851413 (122) total: 1.64s remaining: 359ms
123: learn: 2490.4601765 test: 2490.1193710 best: 2490.1193710 (123) total: 1.65s remaining: 346ms
124: learn: 2486.8957914 test: 2486.3550051 best: 2486.3550051 (124) total: 1.66s remaining: 332ms
125: learn: 2483.2363642 test: 2482.7755880 best: 2482.7755880 (125) total: 1.67s remaining: 319ms
126: learn: 2478.0765916 test: 2477.5531244 best: 2477.5531244 (126) total: 1.69s remaining: 306ms
127: learn: 2474.7163092 test: 2474.2769044 best: 2474.2769044 (127) total: 1.7s remaining: 292ms
128: learn: 2471.3678821 test: 2470.8014444 best: 2470.8014444 (128) total: 1.72s remaining: 280ms
129: learn: 2466.5055980 test: 2465.8765489 best: 2465.8765489 (129) total: 1.73s remaining: 266ms
130: learn: 2463.3264357 test: 2462.3987192 best: 2462.3987192 (130) total: 1.74s remaining: 253ms
131: learn: 2460.0916711 test: 2459.2551891 best: 2459.2551891 (131) total: 1.75s remaining: 239ms
132: learn: 2456.8466032 test: 2456.0316835 best: 2456.0316835 (132) total: 1.77s remaining: 226ms
133: learn: 2453.6444271 test: 2453.7027426 best: 2453.7027426 (133) total: 1.78s remaining: 213ms

133: learn: 2453.8104107 test: 2452.7827426 best: 2452.7827426 (133) total: 1.78s remaining: 213ms
134: learn: 2450.5072687 test: 2449.5346289 best: 2449.5346289 (134) total: 1.79s remaining: 199ms
135: learn: 2445.9558202 test: 2444.9233906 best: 2444.9233906 (135) total: 1.8s remaining: 186ms
136: learn: 2442.9245460 test: 2441.6647115 best: 2441.6647115 (136) total: 1.82s remaining: 173ms
137: learn: 2439.9828966 test: 2438.4322692 best: 2438.4322692 (137) total: 1.83s remaining: 159ms
138: learn: 2437.0670072 test: 2435.3422922 best: 2435.3422922 (138) total: 1.85s remaining: 146ms
139: learn: 2434.1386919 test: 2432.5034291 best: 2432.5034291 (139) total: 1.86s remaining: 133ms
140: learn: 2431.2713026 test: 2429.5645959 best: 2429.5645959 (140) total: 1.87s remaining: 120ms
141: learn: 2427.2830652 test: 2425.4701292 best: 2425.4701292 (141) total: 1.89s remaining: 106ms
142: learn: 2423.2538505 test: 2421.3408626 best: 2421.3408626 (142) total: 1.9s remaining: 93.1ms
143: learn: 2420.5081221 test: 2418.6815894 best: 2418.6815894 (143) total: 1.92s remaining: 79.9ms
144: learn: 2417.9476090 test: 2416.2042919 best: 2416.2042919 (144) total: 1.93s remaining: 66.6ms
145: learn: 2415.1220857 test: 2413.4120165 best: 2413.4120165 (145) total: 1.94s remaining: 53.2ms
146: learn: 2412.4605040 test: 2410.7842004 best: 2410.7842004 (146) total: 1.96s remaining: 39.9ms
147: learn: 2408.5646911 test: 2406.7699786 best: 2406.7699786 (147) total: 1.97s remaining: 26.6ms
148: learn: 2406.0298452 test: 2403.9326559 best: 2403.9326559 (148) total: 1.98s remaining: 13.3ms
149: learn: 2402.3442693 test: 2400.1793861 best: 2400.1793861 (149) total: 1.99s remaining: 0us

bestTest = 2400.179386

bestIteration = 149

12: loss: 2400.1793861 best: 2038.7033683 (9) total: 22.1s remaining: 2m 21s
0: learn: 6448.8660194 test: 6477.8364241 best: 6477.8364241 (0) total: 15.5ms remaining: 2.31s
1: learn: 5970.9342790 test: 5999.9621843 best: 5999.9621843 (1) total: 28.7ms remaining: 2.12s
2: learn: 5555.1842372 test: 5583.5546055 best: 5583.5546055 (2) total: 41.6ms remaining: 2.04s
3: learn: 5181.2337691 test: 5210.8554060 best: 5210.8554060 (3) total: 55.7ms remaining: 2.03s
4: learn: 4854.4573450 test: 4885.1218831 best: 4885.1218831 (4) total: 68.3ms remaining: 1.98s
5: learn: 4567.5384870 test: 4597.2814540 best: 4597.2814540 (5) total: 81.5ms remaining: 1.96s
6: learn: 4324.0912118 test: 4352.9233470 best: 4352.9233470 (6) total: 94.2ms remaining: 1.93s
7: learn: 4104.7492445 test: 4131.8941088 best: 4131.8941088 (7) total: 112ms remaining: 1.99s
8: learn: 3917.2416255 test: 3943.3309030 best: 3943.3309030 (8) total: 127ms remaining: 1.98s
9: learn: 3748.7135575 test: 3774.6366654 best: 3774.6366654 (9) total: 141ms remaining: 1.97s
10: learn: 3605.2716440 test: 3629.5938628 best: 3629.5938628 (10) total: 157ms remaining: 1.98s
11: learn: 3476.4697954 test: 3500.4368465 best: 3500.4368465 (11) total: 170ms remaining: 1.96s
12: learn: 3370.2508217 test: 3392.7467999 best: 3392.7467999 (12) total: 185ms remaining: 1.95s
13: learn: 3264.2944409 test: 3284.5871723 best: 3284.5871723 (13) total: 200ms remaining: 1.94s
14: learn: 3174.2180488 test: 3192.5331580 best: 3192.5331580 (14) total: 215ms remaining: 1.94s
15: learn: 3100.6727080 test: 3117.6960803 best: 3117.6960803 (15) total: 230ms remaining: 1.92s
16: learn: 3028.0646584 test: 3043.8083255 best: 3043.8083255 (16) total: 243ms remaining: 1.9s
17: learn: 2968.0803248 test: 2982.1718003 best: 2982.1718003 (17) total: 255ms remaining: 1.87s
18: learn: 2912.6302456 test: 2926.2381014 best: 2926.2381014 (18) total: 267ms remaining: 1.84s
19: learn: 2867.7308415 test: 2879.7466140 best: 2879.7466140 (19) total: 280ms remaining: 1.82s

20: learn: 2822.7834827 test: 2833.8196493 best: 2833.8196493 (20) total: 293ms remaining: 1.8s
21: learn: 2786.5264777 test: 2796.6581675 best: 2796.6581675 (21) total: 308ms remaining: 1.79s
22: learn: 2752.8017125 test: 2761.3986304 best: 2761.3986304 (22) total: 321ms remaining: 1.77s
23: learn: 2725.2794207 test: 2732.7028259 best: 2732.7028259 (23) total: 334ms remaining: 1.75s
24: learn: 2699.6380469 test: 2706.2665388 best: 2706.2665388 (24) total: 346ms remaining: 1.73s
25: learn: 2676.8276406 test: 2682.3869761 best: 2682.3869761 (25) total: 359ms remaining: 1.71s
26: learn: 2655.0355757 test: 2659.0291816 best: 2659.0291816 (26) total: 371ms remaining: 1.69s
27: learn: 2635.0693174 test: 2638.6718459 best: 2638.6718459 (27) total: 384ms remaining: 1.67s
28: learn: 2608.4577351 test: 2611.5881214 best: 2611.5881214 (28) total: 401ms remaining: 1.67s
29: learn: 2588.9311005 test: 2592.2045634 best: 2592.2045634 (29) total: 414ms remaining: 1.66s
30: learn: 2573.4180022 test: 2575.6118773 best: 2575.6118773 (30) total: 427ms remaining: 1.64s
31: learn: 2558.0604760 test: 2559.6341030 best: 2559.6341030 (31) total: 440ms remaining: 1.62s
32: learn: 2542.9038772 test: 2544.6429087 best: 2544.6429087 (32) total: 451ms remaining: 1.6s
33: learn: 2529.2379851 test: 2530.7955862 best: 2530.7955862 (33) total: 464ms remaining: 1.58s
34: learn: 2510.4196279 test: 2511.5534981 best: 2511.5534981 (34) total: 477ms remaining: 1.56s
35: learn: 2498.3514586 test: 2498.9317735 best: 2498.9317735 (35) total: 490ms remaining: 1.55s
36: learn: 2486.0429534 test: 2485.5087440 best: 2485.5087440 (36) total: 504ms remaining: 1.54s
37: learn: 2474.5465559 test: 2474.2834447 best: 2474.2834447 (37) total: 517ms remaining: 1.52s
38: learn: 2464.0499683 test: 2463.5002007 best: 2463.5002007 (38) total: 531ms remaining: 1.51s
39: learn: 2454.0388325 test: 2453.1352706 best: 2453.1352706 (39) total: 544ms remaining: 1.5s
40: learn: 2443.8230278 test: 2441.8092085 best: 2441.8092085 (40) total: 557ms remaining: 1.48s
41: learn: 2428.8710165 test: 2426.6577871 best: 2426.6577871 (41) total: 569ms remaining: 1.46s
42: learn: 2419.4746213 test: 2417.6853477 best: 2417.6853477 (42) total: 581ms remaining: 1.45s
43: learn: 2410.8770073 test: 2409.3484688 best: 2409.3484688 (43) total: 599ms remaining: 1.44s
44: learn: 2398.7468938 test: 2396.8899079 best: 2396.8899079 (44) total: 611ms remaining: 1.43s
45: learn: 2390.1956876 test: 2388.3236841 best: 2388.3236841 (45) total: 623ms remaining: 1.41s
46: learn: 2381.9573950 test: 2379.5657810 best: 2379.5657810 (46) total: 636ms remaining: 1.39s
47: learn: 2373.5346331 test: 2370.6485130 best: 2370.6485130 (47) total: 648ms remaining: 1.38s
48: learn: 2366.3739225 test: 2362.4753797 best: 2362.4753797 (48) total: 661ms remaining: 1.36s
49: learn: 2359.2774851 test: 2355.0926094 best: 2355.0926094 (49) total: 673ms remaining: 1.35s
50: learn: 2348.9405158 test: 2344.5635406 best: 2344.5635406 (50) total: 686ms remaining: 1.33s
51: learn: 2342.6826197 test: 2338.6308206 best: 2338.6308206 (51) total: 699ms remaining: 1.32s
52: learn: 2336.5152886 test: 2332.2018972 best: 2332.2018972 (52) total: 712ms remaining: 1.3s
53: learn: 2330.5685730 test: 2326.4060101 best: 2326.4060101 (53) total: 724ms remaining: 1.29s
54: learn: 2325.1131893 test: 2321.1703287 best: 2321.1703287 (54) total: 736ms remaining: 1.27s
55: learn: 2316.8317628 test: 2312.5998012 best: 2312.5998012 (55) total: 748ms remaining: 1.26s
56: learn: 2311.1918510 test: 2306.6945459 best: 2306.6945459 (56) total: 761ms remaining: 1.24s
57: learn: 2305.9642938 test: 2301.0934255 best: 2301.0934255 (57) total: 772ms remaining: 1.22s
58: learn: 2297.3126003 test: 2292.2673245 best: 2292.2673245 (58) total: 784ms remaining: 1.21s
59: learn: 2292.7481592 test: 2287.5925486 best: 2287.5925486 (59) total: 801ms remaining: 1.2s
60: learn: 2287.8233865 test: 2282.9482284 best: 2282.9482284 (60) total: 813ms remaining: 1.19s

61: learn: 2282.5635770 test: 2277.4405073 best: 2277.4405073 (61) total: 829ms remaining: 1.18s
62: learn: 2276.8513470 test: 2270.8057290 best: 2270.8057290 (62) total: 841ms remaining: 1.16s
63: learn: 2271.1072033 test: 2264.9882898 best: 2264.9882898 (63) total: 853ms remaining: 1.15s
64: learn: 2264.6602767 test: 2258.3805140 best: 2258.3805140 (64) total: 866ms remaining: 1.13s
65: learn: 2260.2703615 test: 2254.1303399 best: 2254.1303399 (65) total: 878ms remaining: 1.12s
66: learn: 2256.1689544 test: 2250.3494160 best: 2250.3494160 (66) total: 890ms remaining: 1.1s
67: learn: 2251.9778330 test: 2245.6013008 best: 2245.6013008 (67) total: 904ms remaining: 1.09s
68: learn: 2246.8005998 test: 2240.0363760 best: 2240.0363760 (68) total: 919ms remaining: 1.08s
69: learn: 2242.7425231 test: 2235.8313493 best: 2235.8313493 (69) total: 932ms remaining: 1.06s
70: learn: 2239.1794722 test: 2232.3638630 best: 2232.3638630 (70) total: 945ms remaining: 1.05s
71: learn: 2233.6552240 test: 2226.5827706 best: 2226.5827706 (71) total: 957ms remaining: 1.04s
72: learn: 2230.2368344 test: 2223.3987848 best: 2223.3987848 (72) total: 969ms remaining: 1.02s
73: learn: 2225.2404505 test: 2218.0547883 best: 2218.0547883 (73) total: 981ms remaining: 1.01s
74: learn: 2220.3086410 test: 2212.8944224 best: 2212.8944224 (74) total: 997ms remaining: 997ms
75: learn: 2216.0798848 test: 2208.8554586 best: 2208.8554586 (75) total: 1.01s remaining: 984ms
76: learn: 2212.0632547 test: 2205.0572467 best: 2205.0572467 (76) total: 1.02s remaining: 969ms
77: learn: 2208.8251667 test: 2201.9964009 best: 2201.9964009 (77) total: 1.03s remaining: 955ms
78: learn: 2204.3392645 test: 2197.2777386 best: 2197.2777386 (78) total: 1.05s remaining: 940ms
79: learn: 2200.0593251 test: 2192.6829553 best: 2192.6829553 (79) total: 1.06s remaining: 926ms
80: learn: 2197.0780005 test: 2189.2260767 best: 2189.2260767 (80) total: 1.07s remaining: 912ms
81: learn: 2192.7772901 test: 2184.8038351 best: 2184.8038351 (81) total: 1.08s remaining: 898ms
82: learn: 2190.1580529 test: 2182.2569003 best: 2182.2569003 (82) total: 1.1s remaining: 886ms
83: learn: 2186.9168468 test: 2178.8513312 best: 2178.8513312 (83) total: 1.11s remaining: 874ms
84: learn: 2183.2181802 test: 2174.9774417 best: 2174.9774417 (84) total: 1.13s remaining: 860ms
85: learn: 2180.1895869 test: 2172.2273303 best: 2172.2273303 (85) total: 1.14s remaining: 847ms
86: learn: 2177.3569733 test: 2169.5111910 best: 2169.5111910 (86) total: 1.15s remaining: 833ms
87: learn: 2174.2641186 test: 2166.3832914 best: 2166.3832914 (87) total: 1.16s remaining: 820ms
88: learn: 2171.4564107 test: 2163.6626554 best: 2163.6626554 (88) total: 1.18s remaining: 807ms
89: learn: 2168.9980286 test: 2161.0332417 best: 2161.0332417 (89) total: 1.19s remaining: 796ms
90: learn: 2165.8052852 test: 2157.6615281 best: 2157.6615281 (90) total: 1.21s remaining: 783ms
91: learn: 2163.3840589 test: 2155.6092295 best: 2155.6092295 (91) total: 1.22s remaining: 769ms
92: learn: 2159.5230693 test: 2151.6657720 best: 2151.6657720 (92) total: 1.23s remaining: 755ms
93: learn: 2156.2327310 test: 2148.1079908 best: 2148.1079908 (93) total: 1.24s remaining: 741ms
94: learn: 2153.2920195 test: 2145.3250546 best: 2145.3250546 (94) total: 1.26s remaining: 728ms
95: learn: 2150.7861853 test: 2142.7683209 best: 2142.7683209 (95) total: 1.27s remaining: 715ms
96: learn: 2146.7089055 test: 2138.4528637 best: 2138.4528637 (96) total: 1.28s remaining: 701ms
97: learn: 2144.0230096 test: 2135.9730379 best: 2135.9730379 (97) total: 1.3s remaining: 688ms
98: learn: 2141.6956725 test: 2133.9308677 best: 2133.9308677 (98) total: 1.31s remaining: 674ms
99: learn: 2139.0768243 test: 2131.2673082 best: 2131.2673082 (99) total: 1.32s remaining: 661ms
100: learn: 2136.5261486 test: 2128.9127626 best: 2128.9127626 (100) total: 1.33s remaining: 648ms
101: learn: 2133.8085663 test: 2126.1806027 best: 2126.1806027 (101) total: 1.35s remaining: 634ms

102: learn: 2131.6650126 test: 2123.9315355 best: 2123.9315355 (102) total: 1.36s remaining: 621ms
103: learn: 2129.6278901 test: 2121.6166077 best: 2121.6166077 (103) total: 1.37s remaining: 608ms
104: learn: 2126.4808757 test: 2118.5357800 best: 2118.5357800 (104) total: 1.39s remaining: 596ms
105: learn: 2124.4171996 test: 2116.6106380 best: 2116.6106380 (105) total: 1.4s remaining: 583ms
106: learn: 2122.5081288 test: 2114.7653552 best: 2114.7653552 (106) total: 1.42s remaining: 569ms
107: learn: 2119.7464114 test: 2111.7741638 best: 2111.7741638 (107) total: 1.43s remaining: 556ms
108: learn: 2116.6760014 test: 2108.7378330 best: 2108.7378330 (108) total: 1.44s remaining: 542ms
109: learn: 2114.7777177 test: 2106.9873564 best: 2106.9873564 (109) total: 1.45s remaining: 528ms
110: learn: 2113.0145902 test: 2105.4532334 best: 2105.4532334 (110) total: 1.47s remaining: 515ms
111: learn: 2110.0496707 test: 2102.3629721 best: 2102.3629721 (111) total: 1.48s remaining: 502ms
112: learn: 2108.1193133 test: 2100.3847310 best: 2100.3847310 (112) total: 1.49s remaining: 489ms
113: learn: 2106.3953208 test: 2098.7589724 best: 2098.7589724 (113) total: 1.51s remaining: 476ms
114: learn: 2103.8815173 test: 2096.0366709 best: 2096.0366709 (114) total: 1.52s remaining: 463ms
115: learn: 2102.0499689 test: 2094.3927339 best: 2094.3927339 (115) total: 1.53s remaining: 449ms
116: learn: 2099.9328655 test: 2092.2375393 best: 2092.2375393 (116) total: 1.55s remaining: 436ms
117: learn: 2097.9322530 test: 2090.5074294 best: 2090.5074294 (117) total: 1.56s remaining: 423ms
118: learn: 2096.2893872 test: 2088.9221555 best: 2088.9221555 (118) total: 1.57s remaining: 410ms
119: learn: 2093.8175736 test: 2086.5088157 best: 2086.5088157 (119) total: 1.59s remaining: 397ms
120: learn: 2092.4685403 test: 2085.1718227 best: 2085.1718227 (120) total: 1.6s remaining: 384ms
121: learn: 2090.8760966 test: 2083.3811971 best: 2083.3811971 (121) total: 1.61s remaining: 370ms
122: learn: 2089.3120147 test: 2081.9717777 best: 2081.9717777 (122) total: 1.63s remaining: 357ms
123: learn: 2087.8447478 test: 2080.8062170 best: 2080.8062170 (123) total: 1.64s remaining: 343ms
124: learn: 2085.5680120 test: 2078.3391169 best: 2078.3391169 (124) total: 1.65s remaining: 330ms
125: learn: 2083.0570708 test: 2075.8637833 best: 2075.8637833 (125) total: 1.66s remaining: 317ms
126: learn: 2081.6284017 test: 2074.4932158 best: 2074.4932158 (126) total: 1.67s remaining: 303ms
127: learn: 2079.9331439 test: 2073.1652995 best: 2073.1652995 (127) total: 1.69s remaining: 290ms
128: learn: 2078.4228244 test: 2071.7549735 best: 2071.7549735 (128) total: 1.7s remaining: 277ms
129: learn: 2077.0727992 test: 2070.2819552 best: 2070.2819552 (129) total: 1.71s remaining: 264ms
130: learn: 2075.7087278 test: 2069.1771532 best: 2069.1771532 (130) total: 1.73s remaining: 250ms
131: learn: 2073.7145310 test: 2067.2307035 best: 2067.2307035 (131) total: 1.74s remaining: 237ms
132: learn: 2072.1450267 test: 2065.6320047 best: 2065.6320047 (132) total: 1.75s remaining: 224ms
133: learn: 2070.0374661 test: 2063.5608427 best: 2063.5608427 (133) total: 1.76s remaining: 211ms
134: learn: 2067.7372396 test: 2061.0543667 best: 2061.0543667 (134) total: 1.78s remaining: 197ms
135: learn: 2066.3620908 test: 2059.5810786 best: 2059.5810786 (135) total: 1.79s remaining: 185ms
136: learn: 2065.0083710 test: 2058.0718544 best: 2058.0718544 (136) total: 1.81s remaining: 171ms
137: learn: 2063.7115528 test: 2056.8152853 best: 2056.8152853 (137) total: 1.82s remaining: 158ms
138: learn: 2062.2854471 test: 2055.5786918 best: 2055.5786918 (138) total: 1.83s remaining: 145ms
139: learn: 2060.1573539 test: 2053.3506584 best: 2053.3506584 (139) total: 1.85s remaining: 132ms
140: learn: 2058.2349334 test: 2051.3348870 best: 2051.3348870 (140) total: 1.86s remaining: 119ms
141: learn: 2057.0811583 test: 2050.4600558 best: 2050.4600558 (141) total: 1.88s remaining: 106ms
142: learn: 2055.7955587 test: 2049.0135092 best: 2049.0135092 (142) total: 1.89s remaining: 92.5ms
143: learn: 2054.1000041 test: 2047.8500005 best: 2047.8500005 (143) total: 1.9s remaining: 70.8ms

143: learn: 2054.1393941 test: 2047.3526665 best: 2047.3526665 (143) total: 1.9s remaining: 79.3ms
144: learn: 2052.9344049 test: 2046.1817548 best: 2046.1817548 (144) total: 1.92s remaining: 66.1ms
145: learn: 2051.7624335 test: 2045.0708315 best: 2045.0708315 (145) total: 1.93s remaining: 52.9ms
146: learn: 2050.2782036 test: 2043.4935075 best: 2043.4935075 (146) total: 1.95s remaining: 39.7ms
147: learn: 2049.2212333 test: 2042.5269327 best: 2042.5269327 (147) total: 1.96s remaining: 26.5ms
148: learn: 2048.1388811 test: 2041.5191999 best: 2041.5191999 (148) total: 1.97s remaining: 13.2ms
149: learn: 2046.8384800 test: 2040.1877126 best: 2040.1877126 (149) total: 1.99s remaining: 0us

bestTest = 2040.187713

bestIteration = 149

13: loss: 2040.1877126 best: 2038.7033683 (9) total: 24.2s remaining: 2m 21s
0: learn: 6820.7590353 test: 6849.1135744 best: 6849.1135744 (0) total: 13.7ms remaining: 2.05s
1: learn: 6663.6932329 test: 6692.2640438 best: 6692.2640438 (1) total: 26.1ms remaining: 1.93s
2: learn: 6512.0428905 test: 6540.7449703 best: 6540.7449703 (2) total: 39ms remaining: 1.91s
3: learn: 6366.0716347 test: 6395.0569776 best: 6395.0569776 (3) total: 51.5ms remaining: 1.88s
4: learn: 6224.3254379 test: 6253.6482471 best: 6253.6482471 (4) total: 63.8ms remaining: 1.85s
5: learn: 6088.9682070 test: 6118.3477431 best: 6118.3477431 (5) total: 77.5ms remaining: 1.86s
6: learn: 5958.7347170 test: 5988.2257069 best: 5988.2257069 (6) total: 89.7ms remaining: 1.83s
7: learn: 5833.2068424 test: 5862.4829048 best: 5862.4829048 (7) total: 102ms remaining: 1.81s
8: learn: 5710.1836259 test: 5739.8734584 best: 5739.8734584 (8) total: 114ms remaining: 1.78s
9: learn: 5591.9590001 test: 5622.0324291 best: 5622.0324291 (9) total: 126ms remaining: 1.76s
10: learn: 5478.5325199 test: 5509.0158694 best: 5509.0158694 (10) total: 138ms remaining: 1.74s
11: learn: 5369.5663868 test: 5400.2246961 best: 5400.2246961 (11) total: 150ms remaining: 1.73s
12: learn: 5264.8347468 test: 5295.8427862 best: 5295.8427862 (12) total: 164ms remaining: 1.73s
13: learn: 5164.0310665 test: 5194.9372658 best: 5194.9372658 (13) total: 179ms remaining: 1.74s
14: learn: 5065.2620189 test: 5095.7946377 best: 5095.7946377 (14) total: 191ms remaining: 1.72s
15: learn: 4971.7921689 test: 5002.2088352 best: 5002.2088352 (15) total: 204ms remaining: 1.71s
16: learn: 4882.2632217 test: 4912.6905323 best: 4912.6905323 (16) total: 217ms remaining: 1.7s
17: learn: 4794.8665748 test: 4825.4412697 best: 4825.4412697 (17) total: 229ms remaining: 1.68s
18: learn: 4711.5788960 test: 4741.8394458 best: 4741.8394458 (18) total: 241ms remaining: 1.66s
19: learn: 4630.4784758 test: 4660.3737280 best: 4660.3737280 (19) total: 252ms remaining: 1.64s
20: learn: 4553.6269064 test: 4583.4623816 best: 4583.4623816 (20) total: 265ms remaining: 1.63s
21: learn: 4479.9042009 test: 4509.4704108 best: 4509.4704108 (21) total: 280ms remaining: 1.63s
22: learn: 4407.3675250 test: 4436.8220029 best: 4436.8220029 (22) total: 293ms remaining: 1.61s
23: learn: 4337.0122921 test: 4366.0020529 best: 4366.0020529 (23) total: 306ms remaining: 1.61s
24: learn: 4269.3661569 test: 4297.9088954 best: 4297.9088954 (24) total: 319ms remaining: 1.59s
25: learn: 4204.2083784 test: 4232.3359923 best: 4232.3359923 (25) total: 331ms remaining: 1.58s
26: learn: 4143.6775295 test: 4171.5170979 best: 4171.5170979 (26) total: 344ms remaining: 1.56s
27: learn: 4083.5029527 test: 4111.0318715 best: 4111.0318715 (27) total: 356ms remaining: 1.55s
28: learn: 4026.0725991 test: 4053.1166750 best: 4053.1166750 (28) total: 368ms remaining: 1.54s
29: learn: 3971.6386496 test: 3998.1672898 best: 3998.1672898 (29) total: 383ms remaining: 1.53s

30: learn: 3920.2709916 test: 3946.3423636 best: 3946.3423636 (30) total: 396ms remaining: 1.52s
31: learn: 3870.3478505 test: 3896.2182261 best: 3896.2182261 (31) total: 408ms remaining: 1.5s
32: learn: 3823.4907089 test: 3848.9369546 best: 3848.9369546 (32) total: 421ms remaining: 1.49s
33: learn: 3775.7568762 test: 3800.8330261 best: 3800.8330261 (33) total: 433ms remaining: 1.48s
34: learn: 3729.4471021 test: 3754.1991926 best: 3754.1991926 (34) total: 445ms remaining: 1.46s
35: learn: 3687.8062508 test: 3712.2174283 best: 3712.2174283 (35) total: 458ms remaining: 1.45s
36: learn: 3645.6789478 test: 3669.6338640 best: 3669.6338640 (36) total: 475ms remaining: 1.45s
37: learn: 3605.2695935 test: 3629.1523674 best: 3629.1523674 (37) total: 488ms remaining: 1.44s
38: learn: 3566.8819547 test: 3590.4754605 best: 3590.4754605 (38) total: 501ms remaining: 1.43s
39: learn: 3530.2667262 test: 3553.3766121 best: 3553.3766121 (39) total: 513ms remaining: 1.41s
40: learn: 3494.3715167 test: 3517.1717209 best: 3517.1717209 (40) total: 525ms remaining: 1.4s
41: learn: 3459.3576760 test: 3481.9329925 best: 3481.9329925 (41) total: 538ms remaining: 1.38s
42: learn: 3427.1279676 test: 3449.1618650 best: 3449.1618650 (42) total: 551ms remaining: 1.37s
43: learn: 3396.0819847 test: 3417.6578012 best: 3417.6578012 (43) total: 564ms remaining: 1.36s
44: learn: 3364.4873534 test: 3385.9468701 best: 3385.9468701 (44) total: 579ms remaining: 1.35s
45: learn: 3332.7984658 test: 3353.5529941 best: 3353.5529941 (45) total: 591ms remaining: 1.34s
46: learn: 3302.0722748 test: 3322.2053810 best: 3322.2053810 (46) total: 604ms remaining: 1.32s
47: learn: 3275.3607688 test: 3295.1954971 best: 3295.1954971 (47) total: 617ms remaining: 1.31s
48: learn: 3247.5866773 test: 3266.7386016 best: 3266.7386016 (48) total: 631ms remaining: 1.3s
49: learn: 3222.1156195 test: 3240.6740616 best: 3240.6740616 (49) total: 646ms remaining: 1.29s
50: learn: 3196.5397194 test: 3214.9626974 best: 3214.9626974 (50) total: 659ms remaining: 1.28s
51: learn: 3173.4552995 test: 3191.2676776 best: 3191.2676776 (51) total: 677ms remaining: 1.28s
52: learn: 3148.4080200 test: 3165.8790643 best: 3165.8790643 (52) total: 690ms remaining: 1.26s
53: learn: 3125.2180783 test: 3142.1669782 best: 3142.1669782 (53) total: 702ms remaining: 1.25s
54: learn: 3102.4504314 test: 3119.1265564 best: 3119.1265564 (54) total: 715ms remaining: 1.23s
55: learn: 3080.8675002 test: 3097.3957086 best: 3097.3957086 (55) total: 727ms remaining: 1.22s
56: learn: 3060.6881997 test: 3076.8055858 best: 3076.8055858 (56) total: 740ms remaining: 1.21s
57: learn: 3040.5496095 test: 3056.1078966 best: 3056.1078966 (57) total: 752ms remaining: 1.19s
58: learn: 3021.5969229 test: 3036.7325722 best: 3036.7325722 (58) total: 765ms remaining: 1.18s
59: learn: 3004.1924280 test: 3018.8844808 best: 3018.8844808 (59) total: 779ms remaining: 1.17s
60: learn: 2987.7125715 test: 3001.8417879 best: 3001.8417879 (60) total: 793ms remaining: 1.16s
61: learn: 2971.3372247 test: 2985.2058142 best: 2985.2058142 (61) total: 804ms remaining: 1.14s
62: learn: 2954.1509465 test: 2967.8680709 best: 2967.8680709 (62) total: 817ms remaining: 1.13s
63: learn: 2937.0603996 test: 2950.3742481 best: 2950.3742481 (63) total: 829ms remaining: 1.11s
64: learn: 2922.9957008 test: 2935.8329355 best: 2935.8329355 (64) total: 842ms remaining: 1.1s
65: learn: 2907.4034729 test: 2919.9089146 best: 2919.9089146 (65) total: 855ms remaining: 1.09s
66: learn: 2892.9286351 test: 2905.0177045 best: 2905.0177045 (66) total: 873ms remaining: 1.08s
67: learn: 2878.8400837 test: 2890.3822486 best: 2890.3822486 (67) total: 885ms remaining: 1.07s
68: learn: 2864.7232322 test: 2876.1181699 best: 2876.1181699 (68) total: 898ms remaining: 1.05s
69: learn: 2851.7764759 test: 2862.7753826 best: 2862.7753826 (69) total: 911ms remaining: 1.04s
70: learn: 2839.3866972 test: 2849.9253714 best: 2849.9253714 (70) total: 923ms remaining: 1.03s

71: learn: 2826.7908917 test: 2837.1809234 best: 2837.1809234 (71) total: 937ms remaining: 1.01s
72: learn: 2815.1591329 test: 2825.1510844 best: 2825.1510844 (72) total: 949ms remaining: 1s
73: learn: 2804.2649923 test: 2813.8937369 best: 2813.8937369 (73) total: 962ms remaining: 988ms
74: learn: 2793.2808584 test: 2802.6077096 best: 2802.6077096 (74) total: 983ms remaining: 983ms
75: learn: 2783.0802495 test: 2791.9753840 best: 2791.9753840 (75) total: 996ms remaining: 970ms
76: learn: 2772.1403911 test: 2780.7680485 best: 2780.7680485 (76) total: 1.01s remaining: 956ms
77: learn: 2762.6745525 test: 2770.9755054 best: 2770.9755054 (77) total: 1.02s remaining: 942ms
78: learn: 2751.6085963 test: 2759.7392281 best: 2759.7392281 (78) total: 1.03s remaining: 929ms
79: learn: 2741.8231598 test: 2749.6722207 best: 2749.6722207 (79) total: 1.05s remaining: 916ms
80: learn: 2733.0949899 test: 2740.5571967 best: 2740.5571967 (80) total: 1.06s remaining: 903ms
81: learn: 2724.5164566 test: 2731.5295492 best: 2731.5295492 (81) total: 1.07s remaining: 891ms
82: learn: 2716.3755848 test: 2722.9343006 best: 2722.9343006 (82) total: 1.09s remaining: 878ms
83: learn: 2708.7044042 test: 2714.9412120 best: 2714.9412120 (83) total: 1.1s remaining: 864ms
84: learn: 2701.1863716 test: 2706.9422291 best: 2706.9422291 (84) total: 1.11s remaining: 850ms
85: learn: 2693.4725130 test: 2699.2805506 best: 2699.2805506 (85) total: 1.12s remaining: 837ms
86: learn: 2686.2143990 test: 2691.7488434 best: 2691.7488434 (86) total: 1.14s remaining: 824ms
87: learn: 2679.4439816 test: 2684.6683744 best: 2684.6683744 (87) total: 1.15s remaining: 810ms
88: learn: 2672.0936891 test: 2677.2152703 best: 2677.2152703 (88) total: 1.16s remaining: 797ms
89: learn: 2665.0938425 test: 2669.9459621 best: 2669.9459621 (89) total: 1.18s remaining: 785ms
90: learn: 2658.3149214 test: 2663.2333870 best: 2663.2333870 (90) total: 1.19s remaining: 771ms
91: learn: 2652.0860637 test: 2656.7087719 best: 2656.7087719 (91) total: 1.2s remaining: 757ms
92: learn: 2645.8920989 test: 2650.3949524 best: 2650.3949524 (92) total: 1.21s remaining: 744ms
93: learn: 2640.2055669 test: 2644.7795236 best: 2644.7795236 (93) total: 1.23s remaining: 730ms
94: learn: 2634.5822180 test: 2638.9097419 best: 2638.9097419 (94) total: 1.24s remaining: 716ms
95: learn: 2628.9453815 test: 2633.0594532 best: 2633.0594532 (95) total: 1.25s remaining: 702ms
96: learn: 2622.2623601 test: 2626.2670968 best: 2626.2670968 (96) total: 1.26s remaining: 689ms
97: learn: 2616.6478179 test: 2620.5511369 best: 2620.5511369 (97) total: 1.28s remaining: 677ms
98: learn: 2611.2342910 test: 2614.8334932 best: 2614.8334932 (98) total: 1.29s remaining: 664ms
99: learn: 2603.6912229 test: 2607.1639368 best: 2607.1639368 (99) total: 1.3s remaining: 650ms
100: learn: 2598.6049790 test: 2601.6038645 best: 2601.6038645 (100) total: 1.31s remaining: 637ms
101: learn: 2593.2126870 test: 2596.0564574 best: 2596.0564574 (101) total: 1.32s remaining: 624ms
102: learn: 2588.1671255 test: 2590.7288714 best: 2590.7288714 (102) total: 1.34s remaining: 610ms
103: learn: 2583.0877294 test: 2585.5655917 best: 2585.5655917 (103) total: 1.35s remaining: 597ms
104: learn: 2578.2921154 test: 2580.5557278 best: 2580.5557278 (104) total: 1.36s remaining: 585ms
105: learn: 2573.5676629 test: 2575.7556106 best: 2575.7556106 (105) total: 1.38s remaining: 572ms
106: learn: 2566.7708471 test: 2568.8829212 best: 2568.8829212 (106) total: 1.39s remaining: 559ms
107: learn: 2561.5618043 test: 2563.7194709 best: 2563.7194709 (107) total: 1.4s remaining: 546ms
108: learn: 2556.6610658 test: 2558.6355634 best: 2558.6355634 (108) total: 1.42s remaining: 532ms
109: learn: 2550.2673133 test: 2552.1236903 best: 2552.1236903 (109) total: 1.43s remaining: 519ms
110: learn: 2545.9960083 test: 2547.5720253 best: 2547.5720253 (110) total: 1.44s remaining: 506ms
111: learn: 2541.3091500 test: 2542.9972329 best: 2542.9972329 (111) total: 1.45s remaining: 493ms

112: learn: 2536.7998715 test: 2538.5795771 best: 2538.5795771 (112) total: 1.47s remaining: 481ms
113: learn: 2532.5022706 test: 2533.8968339 best: 2533.8968339 (113) total: 1.48s remaining: 468ms
114: learn: 2526.6681215 test: 2527.9505892 best: 2527.9505892 (114) total: 1.5s remaining: 455ms
115: learn: 2522.5719157 test: 2523.9592416 best: 2523.9592416 (115) total: 1.51s remaining: 442ms
116: learn: 2518.6162376 test: 2519.7407048 best: 2519.7407048 (116) total: 1.52s remaining: 429ms
117: learn: 2513.1571904 test: 2514.1707575 best: 2514.1707575 (117) total: 1.53s remaining: 415ms
118: learn: 2509.1429112 test: 2509.7371374 best: 2509.7371374 (118) total: 1.54s remaining: 402ms
119: learn: 2505.2767681 test: 2505.6784980 best: 2505.6784980 (119) total: 1.55s remaining: 389ms
120: learn: 2501.3859798 test: 2501.7446641 best: 2501.7446641 (120) total: 1.57s remaining: 377ms
121: learn: 2497.7001493 test: 2497.7155710 best: 2497.7155710 (121) total: 1.58s remaining: 363ms
122: learn: 2493.8212436 test: 2493.8921750 best: 2493.8921750 (122) total: 1.59s remaining: 350ms
123: learn: 2490.2626966 test: 2490.1281897 best: 2490.1281897 (123) total: 1.61s remaining: 337ms
124: learn: 2486.7113558 test: 2486.3781938 best: 2486.3781938 (124) total: 1.62s remaining: 324ms
125: learn: 2481.5069129 test: 2481.1103640 best: 2481.1103640 (125) total: 1.63s remaining: 311ms
126: learn: 2476.6605394 test: 2476.1575586 best: 2476.1575586 (126) total: 1.64s remaining: 298ms
127: learn: 2473.2669165 test: 2472.6174648 best: 2472.6174648 (127) total: 1.66s remaining: 285ms
128: learn: 2469.9089380 test: 2469.1316761 best: 2469.1316761 (128) total: 1.67s remaining: 272ms
129: learn: 2466.6787469 test: 2465.6778678 best: 2465.6778678 (129) total: 1.69s remaining: 259ms
130: learn: 2463.4110910 test: 2462.5072139 best: 2462.5072139 (130) total: 1.7s remaining: 246ms
131: learn: 2460.1806989 test: 2458.9682719 best: 2458.9682719 (131) total: 1.71s remaining: 233ms
132: learn: 2456.9403197 test: 2455.7509530 best: 2455.7509530 (132) total: 1.72s remaining: 220ms
133: learn: 2453.9890441 test: 2452.5871712 best: 2452.5871712 (133) total: 1.73s remaining: 207ms
134: learn: 2450.6266948 test: 2449.3206196 best: 2449.3206196 (134) total: 1.75s remaining: 194ms
135: learn: 2447.5848353 test: 2446.3042463 best: 2446.3042463 (135) total: 1.76s remaining: 181ms
136: learn: 2444.5439379 test: 2443.0427166 best: 2443.0427166 (136) total: 1.77s remaining: 168ms
137: learn: 2441.3849490 test: 2439.9755101 best: 2439.9755101 (137) total: 1.79s remaining: 156ms
138: learn: 2438.4528405 test: 2436.9174906 best: 2436.9174906 (138) total: 1.8s remaining: 143ms
139: learn: 2434.1255280 test: 2432.4909889 best: 2432.4909889 (139) total: 1.81s remaining: 130ms
140: learn: 2431.3540773 test: 2429.6471095 best: 2429.6471095 (140) total: 1.83s remaining: 117ms
141: learn: 2427.3340110 test: 2425.5192227 best: 2425.5192227 (141) total: 1.84s remaining: 104ms
142: learn: 2423.4133789 test: 2421.4985730 best: 2421.4985730 (142) total: 1.85s remaining: 90.8ms
143: learn: 2420.5818427 test: 2418.7560455 best: 2418.7560455 (143) total: 1.87s remaining: 78ms
144: learn: 2417.9364618 test: 2416.1995334 best: 2416.1995334 (144) total: 1.89s remaining: 65ms
145: learn: 2415.1997295 test: 2413.4962961 best: 2413.4962961 (145) total: 1.9s remaining: 52ms
146: learn: 2412.6218300 test: 2410.9523135 best: 2410.9523135 (146) total: 1.92s remaining: 39.1ms
147: learn: 2409.8559985 test: 2407.8989115 best: 2407.8989115 (147) total: 1.93s remaining: 26.1ms
148: learn: 2407.3340521 test: 2405.0757093 best: 2405.0757093 (148) total: 1.94s remaining: 13ms
149: learn: 2403.6166215 test: 2401.2910375 best: 2401.2910375 (149) total: 1.96s remaining: 0us

bestTest = 2401.291038

bestIteration = 149

14: loss: 2401.2910375 best: 2038.7033683 (9) total: 26.2s remaining: 2m 21s
0: learn: 6448.9150301 test: 6477.8851884 best: 6477.8851884 (0) total: 21.5ms remaining: 3.21s
1: learn: 5971.0146696 test: 6000.0423505 best: 6000.0423505 (1) total: 35.1ms remaining: 2.6s
2: learn: 5555.2823313 test: 5583.6525361 best: 5583.6525361 (2) total: 47.4ms remaining: 2.32s
3: learn: 5181.3565742 test: 5210.9779311 best: 5210.9779311 (3) total: 60.2ms remaining: 2.2s
4: learn: 4854.6029785 test: 4885.2670766 best: 4885.2670766 (4) total: 74.2ms remaining: 2.15s
5: learn: 4567.6982232 test: 4597.4409784 best: 4597.4409784 (5) total: 91.1ms remaining: 2.19s
6: learn: 4324.2567991 test: 4353.0888750 best: 4353.0888750 (6) total: 103ms remaining: 2.11s
7: learn: 4104.9133034 test: 4132.0583227 best: 4132.0583227 (7) total: 116ms remaining: 2.05s
8: learn: 3917.4187676 test: 3943.5088142 best: 3943.5088142 (8) total: 127ms remaining: 2s
9: learn: 3748.9005280 test: 3774.8239351 best: 3774.8239351 (9) total: 140ms remaining: 1.96s
10: learn: 3605.4444353 test: 3629.7671612 best: 3629.7671612 (10) total: 152ms remaining: 1.93s
11: learn: 3476.6412856 test: 3500.6089368 best: 3500.6089368 (11) total: 164ms remaining: 1.89s
12: learn: 3370.4173798 test: 3392.9140551 best: 3392.9140551 (12) total: 177ms remaining: 1.86s
13: learn: 3264.4564049 test: 3284.7501516 best: 3284.7501516 (13) total: 191ms remaining: 1.85s
14: learn: 3174.3866166 test: 3192.7047473 best: 3192.7047473 (14) total: 203ms remaining: 1.83s
15: learn: 3100.8278367 test: 3117.8543560 best: 3117.8543560 (15) total: 216ms remaining: 1.81s
16: learn: 3028.2119484 test: 3043.9588577 best: 3043.9588577 (16) total: 229ms remaining: 1.79s
17: learn: 2968.2306601 test: 2982.3258033 best: 2982.3258033 (17) total: 241ms remaining: 1.77s
18: learn: 2912.7785268 test: 2926.3900866 best: 2926.3900866 (18) total: 254ms remaining: 1.75s
19: learn: 2867.8675260 test: 2879.8870322 best: 2879.8870322 (19) total: 268ms remaining: 1.74s
20: learn: 2822.9117641 test: 2833.9517711 best: 2833.9517711 (20) total: 286ms remaining: 1.75s
21: learn: 2786.6512090 test: 2796.7868976 best: 2796.7868976 (21) total: 298ms remaining: 1.73s
22: learn: 2752.9234195 test: 2761.5250738 best: 2761.5250738 (22) total: 310ms remaining: 1.71s
23: learn: 2725.3976446 test: 2732.8266611 best: 2732.8266611 (23) total: 323ms remaining: 1.69s
24: learn: 2699.7473943 test: 2706.3814776 best: 2706.3814776 (24) total: 335ms remaining: 1.68s
25: learn: 2676.9339049 test: 2682.4987691 best: 2682.4987691 (25) total: 348ms remaining: 1.66s
26: learn: 2655.1388104 test: 2659.1381224 best: 2659.1381224 (26) total: 361ms remaining: 1.64s
27: learn: 2635.1758662 test: 2638.7847925 best: 2638.7847925 (27) total: 373ms remaining: 1.63s
28: learn: 2608.5669294 test: 2611.7036449 best: 2611.7036449 (28) total: 389ms remaining: 1.62s
29: learn: 2589.0459703 test: 2592.3248460 best: 2592.3248460 (29) total: 401ms remaining: 1.6s
30: learn: 2573.5294022 test: 2575.7286243 best: 2575.7286243 (30) total: 414ms remaining: 1.59s
31: learn: 2558.1848156 test: 2559.7639246 best: 2559.7639246 (31) total: 426ms remaining: 1.57s
32: learn: 2543.0334683 test: 2544.7770583 best: 2544.7770583 (32) total: 439ms remaining: 1.55s
33: learn: 2529.3696133 test: 2530.9322873 best: 2530.9322873 (33) total: 451ms remaining: 1.54s
34: learn: 2510.5504554 test: 2511.6892636 best: 2511.6892636 (34) total: 464ms remaining: 1.52s
35: learn: 2498.4951124 test: 2499.0797388 best: 2499.0797388 (35) total: 482ms remaining: 1.52s
36: learn: 2486.1849444 test: 2485.6551580 best: 2485.6551580 (36) total: 496ms remaining: 1.51s
37: learn: 2474.6915339 test: 2474.4321876 best: 2474.4321876 (37) total: 508ms remaining: 1.5s
38: learn: 2464.1967756 test: 2463.6513693 best: 2463.6513693 (38) total: 520ms remaining: 1.48s
39: learn: 2454.1868130 test: 2453.2876385 best: 2453.2876385 (39) total: 532ms remaining: 1.46s

40: learn: 2443.9701857 test: 2441.9609225 best: 2441.9609225 (40) total: 545ms remaining: 1.45s
41: learn: 2429.0192948 test: 2426.8105110 best: 2426.8105110 (41) total: 557ms remaining: 1.43s
42: learn: 2419.6350681 test: 2417.8477847 best: 2417.8477847 (42) total: 570ms remaining: 1.42s
43: learn: 2411.0350547 test: 2409.5084081 best: 2409.5084081 (43) total: 585ms remaining: 1.41s
44: learn: 2398.9075276 test: 2397.0525026 best: 2397.0525026 (44) total: 598ms remaining: 1.39s
45: learn: 2390.3565495 test: 2388.4867987 best: 2388.4867987 (45) total: 610ms remaining: 1.38s
46: learn: 2382.1277050 test: 2379.7311925 best: 2379.7311925 (46) total: 623ms remaining: 1.36s
47: learn: 2373.7019266 test: 2370.8107234 best: 2370.8107234 (47) total: 635ms remaining: 1.35s
48: learn: 2366.5387662 test: 2362.6342914 best: 2362.6342914 (48) total: 648ms remaining: 1.33s
49: learn: 2359.4425347 test: 2355.2517543 best: 2355.2517543 (49) total: 660ms remaining: 1.32s
50: learn: 2349.1039833 test: 2344.7207684 best: 2344.7207684 (50) total: 677ms remaining: 1.31s
51: learn: 2342.8443156 test: 2338.7866189 best: 2338.7866189 (51) total: 690ms remaining: 1.3s
52: learn: 2336.6755008 test: 2332.3560871 best: 2332.3560871 (52) total: 702ms remaining: 1.28s
53: learn: 2330.7275126 test: 2326.5586041 best: 2326.5586041 (53) total: 714ms remaining: 1.27s
54: learn: 2325.2732662 test: 2321.3236355 best: 2321.3236355 (54) total: 726ms remaining: 1.25s
55: learn: 2316.9915610 test: 2312.7528584 best: 2312.7528584 (55) total: 739ms remaining: 1.24s
56: learn: 2311.3503767 test: 2306.8462092 best: 2306.8462092 (56) total: 751ms remaining: 1.23s
57: learn: 2306.1240377 test: 2301.2471613 best: 2301.2471613 (57) total: 764ms remaining: 1.21s
58: learn: 2297.4689088 test: 2292.4174121 best: 2292.4174121 (58) total: 779ms remaining: 1.2s
59: learn: 2292.9017886 test: 2287.7397597 best: 2287.7397597 (59) total: 792ms remaining: 1.19s
60: learn: 2287.9740564 test: 2283.0927624 best: 2283.0927624 (60) total: 803ms remaining: 1.17s
61: learn: 2282.7109596 test: 2277.5814826 best: 2277.5814826 (61) total: 816ms remaining: 1.16s
62: learn: 2276.9980756 test: 2270.9458666 best: 2270.9458666 (62) total: 828ms remaining: 1.14s
63: learn: 2271.2553542 test: 2265.1299300 best: 2265.1299300 (63) total: 841ms remaining: 1.13s
64: learn: 2264.8057233 test: 2258.5191735 best: 2258.5191735 (64) total: 853ms remaining: 1.11s
65: learn: 2260.4174071 test: 2254.2693341 best: 2254.2693341 (65) total: 865ms remaining: 1.1s
66: learn: 2256.3171364 test: 2250.4892294 best: 2250.4892294 (66) total: 879ms remaining: 1.09s
67: learn: 2252.1275419 test: 2245.7427603 best: 2245.7427603 (67) total: 891ms remaining: 1.07s
68: learn: 2246.9517974 test: 2240.1793045 best: 2240.1793045 (68) total: 903ms remaining: 1.06s
69: learn: 2242.8938940 test: 2235.9742845 best: 2235.9742845 (69) total: 915ms remaining: 1.04s
70: learn: 2239.3430801 test: 2232.5231379 best: 2232.5231379 (70) total: 926ms remaining: 1.03s
71: learn: 2233.8173043 test: 2226.7405488 best: 2226.7405488 (71) total: 938ms remaining: 1.02s
72: learn: 2230.4206060 test: 2223.5765238 best: 2223.5765238 (72) total: 950ms remaining: 1s
73: learn: 2225.4250968 test: 2218.2334351 best: 2218.2334351 (73) total: 961ms remaining: 987ms
74: learn: 2220.4956238 test: 2213.0754352 best: 2213.0754352 (74) total: 978ms remaining: 978ms
75: learn: 2216.2659124 test: 2209.0355126 best: 2209.0355126 (75) total: 991ms remaining: 965ms
76: learn: 2212.2493745 test: 2205.2373109 best: 2205.2373109 (76) total: 1s remaining: 951ms
77: learn: 2209.0111698 test: 2202.1754223 best: 2202.1754223 (77) total: 1.01s remaining: 937ms
78: learn: 2204.5233155 test: 2197.4548079 best: 2197.4548079 (78) total: 1.03s remaining: 923ms
79: learn: 2200.2441055 test: 2192.8607891 best: 2192.8607891 (79) total: 1.04s remaining: 909ms
80: learn: 2197.2611104 test: 2189.4010080 best: 2189.4010080 (80) total: 1.05s remaining: 895ms

81: learn: 2192.9609180 test: 2184.9792359 best: 2184.9792359 (81) total: 1.06s remaining: 881ms
82: learn: 2190.3566410 test: 2182.4506466 best: 2182.4506466 (82) total: 1.08s remaining: 870ms
83: learn: 2187.1140845 test: 2179.0434978 best: 2179.0434978 (83) total: 1.09s remaining: 857ms
84: learn: 2183.4162861 test: 2175.1705012 best: 2175.1705012 (84) total: 1.1s remaining: 844ms
85: learn: 2180.3829150 test: 2172.4157679 best: 2172.4157679 (85) total: 1.11s remaining: 830ms
86: learn: 2177.5506614 test: 2169.6990095 best: 2169.6990095 (86) total: 1.13s remaining: 817ms
87: learn: 2174.4590131 test: 2166.5725260 best: 2166.5725260 (87) total: 1.14s remaining: 803ms
88: learn: 2171.6568080 test: 2163.8511752 best: 2163.8511752 (88) total: 1.15s remaining: 789ms
89: learn: 2169.2097560 test: 2161.2348447 best: 2161.2348447 (89) total: 1.16s remaining: 776ms
90: learn: 2166.0176188 test: 2157.8636734 best: 2157.8636734 (90) total: 1.18s remaining: 765ms
91: learn: 2163.5991505 test: 2155.8118685 best: 2155.8118685 (91) total: 1.19s remaining: 751ms
92: learn: 2159.7387285 test: 2151.8688648 best: 2151.8688648 (92) total: 1.2s remaining: 738ms
93: learn: 2156.4485066 test: 2148.3112127 best: 2148.3112127 (93) total: 1.22s remaining: 724ms
94: learn: 2153.5070728 test: 2145.5274763 best: 2145.5274763 (94) total: 1.23s remaining: 711ms
95: learn: 2151.0018127 test: 2142.9698103 best: 2142.9698103 (95) total: 1.24s remaining: 698ms
96: learn: 2146.9249874 test: 2138.6549836 best: 2138.6549836 (96) total: 1.25s remaining: 684ms
97: learn: 2144.2378291 test: 2136.1738144 best: 2136.1738144 (97) total: 1.26s remaining: 671ms
98: learn: 2141.9058468 test: 2134.1270806 best: 2134.1270806 (98) total: 1.28s remaining: 659ms
99: learn: 2139.2869374 test: 2131.4633917 best: 2131.4633917 (99) total: 1.29s remaining: 646ms
100: learn: 2136.7571127 test: 2129.1227745 best: 2129.1227745 (100) total: 1.3s remaining: 632ms
101: learn: 2134.0386787 test: 2126.3896654 best: 2126.3896654 (101) total: 1.31s remaining: 619ms
102: learn: 2131.8936607 test: 2124.1390422 best: 2124.1390422 (102) total: 1.33s remaining: 606ms
103: learn: 2129.8613936 test: 2121.8305901 best: 2121.8305901 (103) total: 1.34s remaining: 592ms
104: learn: 2126.7129939 test: 2118.7484108 best: 2118.7484108 (104) total: 1.35s remaining: 579ms
105: learn: 2124.6490564 test: 2116.8229665 best: 2116.8229665 (105) total: 1.36s remaining: 566ms
106: learn: 2122.7397543 test: 2114.9768435 best: 2114.9768435 (106) total: 1.38s remaining: 554ms
107: learn: 2119.9778739 test: 2111.9855067 best: 2111.9855067 (107) total: 1.39s remaining: 541ms
108: learn: 2118.1846756 test: 2110.5659060 best: 2110.5659060 (108) total: 1.4s remaining: 528ms
109: learn: 2116.4022425 test: 2108.6386247 best: 2108.6386247 (109) total: 1.41s remaining: 514ms
110: learn: 2113.4320816 test: 2105.6942120 best: 2105.6942120 (110) total: 1.43s remaining: 501ms
111: learn: 2110.4623700 test: 2102.5974335 best: 2102.5974335 (111) total: 1.44s remaining: 488ms
112: learn: 2107.9161568 test: 2099.8394154 best: 2099.8394154 (112) total: 1.45s remaining: 475ms
113: learn: 2106.1790467 test: 2098.4284628 best: 2098.4284628 (113) total: 1.46s remaining: 462ms
114: learn: 2104.3507230 test: 2096.7015584 best: 2096.7015584 (114) total: 1.48s remaining: 450ms
115: learn: 2102.4206938 test: 2094.7647695 best: 2094.7647695 (115) total: 1.49s remaining: 437ms
116: learn: 2100.7158048 test: 2093.3662001 best: 2093.3662001 (116) total: 1.5s remaining: 424ms
117: learn: 2098.1885182 test: 2090.6348287 best: 2090.6348287 (117) total: 1.51s remaining: 411ms
118: learn: 2095.6976622 test: 2087.9370129 best: 2087.9370129 (118) total: 1.53s remaining: 398ms
119: learn: 2093.3112968 test: 2085.6116698 best: 2085.6116698 (119) total: 1.54s remaining: 385ms
120: learn: 2091.8614688 test: 2084.1683903 best: 2084.1683903 (120) total: 1.55s remaining: 372ms
121: learn: 2090.2897799 test: 2082.4529281 best: 2082.4529281 (121) total: 1.57s remaining: 360ms

122: learn: 2088.4473763 test: 2080.7263736 best: 2080.7263736 (122) total: 1.58s remaining: 347ms
123: learn: 2086.2821214 test: 2078.2182635 best: 2078.2182635 (123) total: 1.59s remaining: 334ms
124: learn: 2083.6144993 test: 2075.5943503 best: 2075.5943503 (124) total: 1.6s remaining: 321ms
125: learn: 2081.8495402 test: 2073.7632686 best: 2073.7632686 (125) total: 1.62s remaining: 308ms
126: learn: 2080.4117838 test: 2072.3882861 best: 2072.3882861 (126) total: 1.63s remaining: 295ms
127: learn: 2078.8873166 test: 2070.9094295 best: 2070.9094295 (127) total: 1.64s remaining: 282ms
128: learn: 2077.3550649 test: 2069.4637289 best: 2069.4637289 (128) total: 1.65s remaining: 269ms
129: learn: 2076.0825798 test: 2068.4482856 best: 2068.4482856 (129) total: 1.66s remaining: 256ms
130: learn: 2074.1953298 test: 2066.8935919 best: 2066.8935919 (130) total: 1.68s remaining: 243ms
131: learn: 2072.8195411 test: 2065.7610483 best: 2065.7610483 (131) total: 1.69s remaining: 230ms
132: learn: 2070.6866336 test: 2063.4517481 best: 2063.4517481 (132) total: 1.7s remaining: 217ms
133: learn: 2068.7516217 test: 2061.3504341 best: 2061.3504341 (133) total: 1.71s remaining: 204ms
134: learn: 2066.5231430 test: 2059.1614979 best: 2059.1614979 (134) total: 1.73s remaining: 192ms
135: learn: 2064.6248146 test: 2057.3164684 best: 2057.3164684 (135) total: 1.74s remaining: 179ms
136: learn: 2063.2186030 test: 2055.7604902 best: 2055.7604902 (136) total: 1.75s remaining: 166ms
137: learn: 2061.1846136 test: 2053.5337312 best: 2053.5337312 (137) total: 1.77s remaining: 154ms
138: learn: 2059.9289373 test: 2052.3382632 best: 2052.3382632 (138) total: 1.78s remaining: 141ms
139: learn: 2058.4805042 test: 2050.7700857 best: 2050.7700857 (139) total: 1.79s remaining: 128ms
140: learn: 2057.3412106 test: 2049.5181528 best: 2049.5181528 (140) total: 1.8s remaining: 115ms
141: learn: 2056.1422378 test: 2048.3344478 best: 2048.3344478 (141) total: 1.81s remaining: 102ms
142: learn: 2054.7424220 test: 2047.2274845 best: 2047.2274845 (142) total: 1.83s remaining: 89.4ms
143: learn: 2052.7862055 test: 2045.1864648 best: 2045.1864648 (143) total: 1.84s remaining: 76.6ms
144: learn: 2051.3653067 test: 2043.9283829 best: 2043.9283829 (144) total: 1.85s remaining: 63.8ms
145: learn: 2049.7640816 test: 2042.3229378 best: 2042.3229378 (145) total: 1.87s remaining: 51.1ms
146: learn: 2048.0985913 test: 2040.4885000 best: 2040.4885000 (146) total: 1.88s remaining: 38.4ms
147: learn: 2046.9769118 test: 2039.3440347 best: 2039.3440347 (147) total: 1.9s remaining: 25.7ms
148: learn: 2045.9587553 test: 2038.5443454 best: 2038.5443454 (148) total: 1.91s remaining: 12.8ms
149: learn: 2044.6785996 test: 2037.1442938 best: 2037.1442938 (149) total: 1.93s remaining: 0us

bestTest = 2037.144294

bestIteration = 149

15: loss: 2037.1442938 best: 2037.1442938 (15) total: 28.1s remaining: 2m 20s
0: learn: 6820.7380586 test: 6849.0927084 best: 6849.0927084 (0) total: 18.5ms remaining: 3.67s
1: learn: 6663.6526529 test: 6692.2236346 best: 6692.2236346 (1) total: 35.5ms remaining: 3.52s
2: learn: 6511.9860870 test: 6540.6883531 best: 6540.6883531 (2) total: 52.3ms remaining: 3.43s
3: learn: 6365.9994684 test: 6394.9850384 best: 6394.9850384 (3) total: 68.5ms remaining: 3.36s
4: learn: 6224.2371883 test: 6253.5602819 best: 6253.5602819 (4) total: 85ms remaining: 3.31s
5: learn: 6088.8674406 test: 6118.2472563 best: 6118.2472563 (5) total: 103ms remaining: 3.33s
6: learn: 5958.6207585 test: 5988.1120525 best: 5988.1120525 (6) total: 119ms remaining: 3.29s
7: learn: 5833.0854263 test: 5862.3617646 best: 5862.3617646 (7) total: 134ms remaining: 3.22s
8: learn: 5710.0461620 test: 5739.7363829 best: 5739.7363829 (8) total: 147ms remaining: 3.13s

8: learn: 5710.6401020 test: 5705.7300820 best: 5705.7300820 (8) total: 147ms remaining: 0.103s
9: learn: 5591.8069567 test: 5621.8808728 best: 5621.8808728 (9) total: 160ms remaining: 3.04s
10: learn: 5478.3674105 test: 5508.8513472 best: 5508.8513472 (10) total: 173ms remaining: 2.97s
11: learn: 5369.3930456 test: 5400.0519450 best: 5400.0519450 (11) total: 186ms remaining: 2.91s
12: learn: 5264.6506988 test: 5295.6594034 best: 5295.6594034 (12) total: 199ms remaining: 2.86s
13: learn: 5163.8440269 test: 5194.7508434 best: 5194.7508434 (13) total: 216ms remaining: 2.87s
14: learn: 5065.0692697 test: 5095.6024487 best: 5095.6024487 (14) total: 229ms remaining: 2.82s
15: learn: 4971.5973680 test: 5002.0145441 best: 5002.0145441 (15) total: 242ms remaining: 2.78s
16: learn: 4882.0629175 test: 4912.4907282 best: 4912.4907282 (16) total: 254ms remaining: 2.73s
17: learn: 4794.6541425 test: 4825.2295423 best: 4825.2295423 (17) total: 266ms remaining: 2.69s
18: learn: 4711.3672219 test: 4741.6284211 best: 4741.6284211 (18) total: 279ms remaining: 2.65s
19: learn: 4630.2579679 test: 4660.1537082 best: 4660.1537082 (19) total: 291ms remaining: 2.62s
20: learn: 4553.4054479 test: 4583.2413730 best: 4583.2413730 (20) total: 303ms remaining: 2.58s
21: learn: 4479.6842353 test: 4509.2508280 best: 4509.2508280 (21) total: 319ms remaining: 2.58s
22: learn: 4407.1484287 test: 4436.6032307 best: 4436.6032307 (22) total: 331ms remaining: 2.55s
23: learn: 4336.7817462 test: 4365.7715158 best: 4365.7715158 (23) total: 343ms remaining: 2.52s
24: learn: 4269.1356627 test: 4297.6783268 best: 4297.6783268 (24) total: 356ms remaining: 2.49s
25: learn: 4203.9784920 test: 4232.1059451 best: 4232.1059451 (25) total: 368ms remaining: 2.46s
26: learn: 4143.4457141 test: 4171.2850389 best: 4171.2850389 (26) total: 380ms remaining: 2.44s
27: learn: 4083.2610129 test: 4110.7892707 best: 4110.7892707 (27) total: 393ms remaining: 2.41s
28: learn: 4025.8324313 test: 4052.8757534 best: 4052.8757534 (28) total: 405ms remaining: 2.39s
29: learn: 3971.4008020 test: 3997.9285999 best: 3997.9285999 (29) total: 420ms remaining: 2.38s
30: learn: 3920.0315557 test: 3946.1019043 best: 3946.1019043 (30) total: 432ms remaining: 2.36s
31: learn: 3870.1117345 test: 3895.9809990 best: 3895.9809990 (31) total: 445ms remaining: 2.33s
32: learn: 3823.2553487 test: 3848.7004469 best: 3848.7004469 (32) total: 457ms remaining: 2.31s
33: learn: 3775.5125685 test: 3800.5872508 best: 3800.5872508 (33) total: 469ms remaining: 2.29s
34: learn: 3729.2046471 test: 3753.9551713 best: 3753.9551713 (34) total: 482ms remaining: 2.27s
35: learn: 3687.5658579 test: 3711.9753911 best: 3711.9753911 (35) total: 495ms remaining: 2.25s
36: learn: 3645.4328256 test: 3669.3856321 best: 3669.3856321 (36) total: 510ms remaining: 2.24s
37: learn: 3605.0236049 test: 3628.9042453 best: 3628.9042453 (37) total: 522ms remaining: 2.23s
38: learn: 3566.6405866 test: 3590.2318587 best: 3590.2318587 (38) total: 535ms remaining: 2.21s
39: learn: 3530.0306398 test: 3553.1382266 best: 3553.1382266 (39) total: 548ms remaining: 2.19s
40: learn: 3494.1347888 test: 3516.9326686 best: 3516.9326686 (40) total: 560ms remaining: 2.17s
41: learn: 3459.1223964 test: 3481.6952874 best: 3481.6952874 (41) total: 572ms remaining: 2.15s
42: learn: 3426.8980205 test: 3448.9294337 best: 3448.9294337 (42) total: 584ms remaining: 2.13s
43: learn: 3395.8572848 test: 3417.4305691 best: 3417.4305691 (43) total: 597ms remaining: 2.12s
44: learn: 3364.2629515 test: 3385.7199236 best: 3385.7199236 (44) total: 614ms remaining: 2.11s
45: learn: 3332.5756844 test: 3353.3275442 best: 3353.3275442 (45) total: 627ms remaining: 2.1s
46: learn: 3301.8512082 test: 3321.9815204 best: 3321.9815204 (46) total: 639ms remaining: 2.08s
47: learn: 3275.1446259 test: 3294.9764698 best: 3294.9764698 (47) total: 652ms remaining: 2.06s
48: learn: 3247.3724861 test: 3266.5214124 best: 3266.5214124 (48) total: 664ms remaining: 2.04s
49: learn: 3221.9004314 test: 3240.4556353 best: 3240.4556353 (49) total: 676ms remaining: 2.03s

50: learn: 3196.3250052 test: 3214.7447366 best: 3214.7447366 (50) total: 689ms remaining: 2.01s
51: learn: 3173.2451910 test: 3191.0542702 best: 3191.0542702 (51) total: 701ms remaining: 1.99s
52: learn: 3148.2007355 test: 3165.6684072 best: 3165.6684072 (52) total: 716ms remaining: 1.98s
53: learn: 3125.0127029 test: 3141.9580554 best: 3141.9580554 (53) total: 728ms remaining: 1.97s
54: learn: 3102.2480023 test: 3118.9205013 best: 3118.9205013 (54) total: 741ms remaining: 1.95s
55: learn: 3080.6656967 test: 3097.1902717 best: 3097.1902717 (55) total: 753ms remaining: 1.94s
56: learn: 3060.4847479 test: 3076.5984752 best: 3076.5984752 (56) total: 766ms remaining: 1.92s
57: learn: 3040.3487037 test: 3055.9032405 best: 3055.9032405 (57) total: 778ms remaining: 1.9s
58: learn: 3021.3961666 test: 3036.5279033 best: 3036.5279033 (58) total: 790ms remaining: 1.89s
59: learn: 3003.9958831 test: 3018.6840161 best: 3018.6840161 (59) total: 808ms remaining: 1.88s
60: learn: 2987.5206194 test: 3001.6458940 best: 3001.6458940 (60) total: 820ms remaining: 1.87s
61: learn: 2971.1455446 test: 2985.0101811 best: 2985.0101811 (61) total: 832ms remaining: 1.85s
62: learn: 2953.9599689 test: 2967.6731436 best: 2967.6731436 (62) total: 844ms remaining: 1.84s
63: learn: 2936.8725513 test: 2950.1824063 best: 2950.1824063 (63) total: 857ms remaining: 1.82s
64: learn: 2922.8119117 test: 2935.6451484 best: 2935.6451484 (64) total: 869ms remaining: 1.8s
65: learn: 2907.2228333 test: 2919.7242190 best: 2919.7242190 (65) total: 881ms remaining: 1.79s
66: learn: 2892.7505794 test: 2904.8355313 best: 2904.8355313 (66) total: 895ms remaining: 1.78s
67: learn: 2878.6615168 test: 2890.1994802 best: 2890.1994802 (67) total: 910ms remaining: 1.77s
68: learn: 2864.5452753 test: 2875.9360248 best: 2875.9360248 (68) total: 924ms remaining: 1.75s
69: learn: 2851.5977612 test: 2862.5921191 best: 2862.5921191 (69) total: 937ms remaining: 1.74s
70: learn: 2839.2086954 test: 2849.7428749 best: 2849.7428749 (70) total: 951ms remaining: 1.73s
71: learn: 2826.6136585 test: 2836.9992059 best: 2836.9992059 (71) total: 964ms remaining: 1.71s
72: learn: 2814.9822724 test: 2824.9693514 best: 2824.9693514 (72) total: 976ms remaining: 1.7s
73: learn: 2804.0920461 test: 2813.7159224 best: 2813.7159224 (73) total: 990ms remaining: 1.69s
74: learn: 2793.1097485 test: 2802.4316589 best: 2802.4316589 (74) total: 1.01s remaining: 1.68s
75: learn: 2782.9088009 test: 2791.7982657 best: 2791.7982657 (75) total: 1.02s remaining: 1.67s
76: learn: 2771.9716897 test: 2780.5936694 best: 2780.5936694 (76) total: 1.03s remaining: 1.65s
77: learn: 2762.5088036 test: 2770.8040932 best: 2770.8040932 (77) total: 1.05s remaining: 1.64s
78: learn: 2751.4421217 test: 2759.5670977 best: 2759.5670977 (78) total: 1.06s remaining: 1.63s
79: learn: 2741.6597510 test: 2749.5031372 best: 2749.5031372 (79) total: 1.07s remaining: 1.61s
80: learn: 2732.9330651 test: 2740.3893828 best: 2740.3893828 (80) total: 1.09s remaining: 1.6s
81: learn: 2724.3558988 test: 2731.3631749 best: 2731.3631749 (81) total: 1.1s remaining: 1.59s
82: learn: 2716.2154907 test: 2722.7682593 best: 2722.7682593 (82) total: 1.12s remaining: 1.58s
83: learn: 2708.5457977 test: 2714.7764274 best: 2714.7764274 (83) total: 1.14s remaining: 1.57s
84: learn: 2701.0291154 test: 2706.7787441 best: 2706.7787441 (84) total: 1.15s remaining: 1.56s
85: learn: 2693.3125326 test: 2699.1148320 best: 2699.1148320 (85) total: 1.16s remaining: 1.54s
86: learn: 2686.0562615 test: 2691.5850292 best: 2691.5850292 (86) total: 1.18s remaining: 1.53s
87: learn: 2679.2878577 test: 2684.5066165 best: 2684.5066165 (87) total: 1.19s remaining: 1.51s
88: learn: 2671.9342518 test: 2677.0501532 best: 2677.0501532 (88) total: 1.21s remaining: 1.5s
89: learn: 2664.9366923 test: 2669.7831573 best: 2669.7831573 (89) total: 1.22s remaining: 1.49s
90: learn: 2658.1552313 test: 2663.0684939 best: 2663.0684939 (90) total: 1.23s remaining: 1.48s

91: learn: 2651.9266710 test: 2656.5437386 best: 2656.5437386 (91) total: 1.24s remaining: 1.46s
92: learn: 2645.7309582 test: 2650.2278584 best: 2650.2278584 (92) total: 1.26s remaining: 1.45s
93: learn: 2640.0401890 test: 2644.6086988 best: 2644.6086988 (93) total: 1.27s remaining: 1.43s
94: learn: 2634.4182617 test: 2638.7404135 best: 2638.7404135 (94) total: 1.28s remaining: 1.42s
95: learn: 2628.7736156 test: 2632.8827656 best: 2632.8827656 (95) total: 1.29s remaining: 1.4s
96: learn: 2622.0875206 test: 2626.0872819 best: 2626.0872819 (96) total: 1.31s remaining: 1.39s
97: learn: 2616.4714799 test: 2620.3695434 best: 2620.3695434 (97) total: 1.32s remaining: 1.38s
98: learn: 2611.0585043 test: 2614.6521515 best: 2614.6521515 (98) total: 1.34s remaining: 1.36s
99: learn: 2603.5148225 test: 2606.9820039 best: 2606.9820039 (99) total: 1.35s remaining: 1.35s
100: learn: 2598.4268324 test: 2601.4199645 best: 2601.4199645 (100) total: 1.36s remaining: 1.34s
101: learn: 2593.0377505 test: 2595.8757827 best: 2595.8757827 (101) total: 1.38s remaining: 1.32s
102: learn: 2587.9938186 test: 2590.5499054 best: 2590.5499054 (102) total: 1.39s remaining: 1.31s
103: learn: 2582.9131557 test: 2585.3851116 best: 2585.3851116 (103) total: 1.41s remaining: 1.3s
104: learn: 2578.1188981 test: 2580.3766867 best: 2580.3766867 (104) total: 1.42s remaining: 1.28s
105: learn: 2573.3933656 test: 2575.5752665 best: 2575.5752665 (105) total: 1.43s remaining: 1.27s
106: learn: 2566.5946272 test: 2568.7006855 best: 2568.7006855 (106) total: 1.45s remaining: 1.26s
107: learn: 2561.3842713 test: 2563.5361628 best: 2563.5361628 (107) total: 1.46s remaining: 1.24s
108: learn: 2556.4846103 test: 2558.4532854 best: 2558.4532854 (108) total: 1.47s remaining: 1.23s
109: learn: 2550.0906126 test: 2551.9411757 best: 2551.9411757 (109) total: 1.48s remaining: 1.21s
110: learn: 2545.8158832 test: 2547.3859170 best: 2547.3859170 (110) total: 1.49s remaining: 1.2s
111: learn: 2541.1263381 test: 2542.8089020 best: 2542.8089020 (111) total: 1.51s remaining: 1.19s
112: learn: 2536.6156393 test: 2538.3901198 best: 2538.3901198 (112) total: 1.52s remaining: 1.17s
113: learn: 2532.3188366 test: 2533.7081185 best: 2533.7081185 (113) total: 1.53s remaining: 1.16s
114: learn: 2526.4845190 test: 2527.7617119 best: 2527.7617119 (114) total: 1.54s remaining: 1.14s
115: learn: 2522.3862858 test: 2523.7687328 best: 2523.7687328 (115) total: 1.56s remaining: 1.13s
116: learn: 2518.4275457 test: 2519.5469705 best: 2519.5469705 (116) total: 1.57s remaining: 1.11s
117: learn: 2512.9684800 test: 2513.9770052 best: 2513.9770052 (117) total: 1.58s remaining: 1.1s
118: learn: 2508.9533872 test: 2509.5424426 best: 2509.5424426 (118) total: 1.59s remaining: 1.08s
119: learn: 2505.0864739 test: 2505.4828979 best: 2505.4828979 (119) total: 1.61s remaining: 1.07s
120: learn: 2501.1949389 test: 2501.5481330 best: 2501.5481330 (120) total: 1.62s remaining: 1.06s
121: learn: 2497.5097747 test: 2497.5196792 best: 2497.5196792 (121) total: 1.63s remaining: 1.04s
122: learn: 2493.8702460 test: 2493.7278934 best: 2493.7278934 (122) total: 1.64s remaining: 1.03s
123: learn: 2490.4020264 test: 2490.0607705 best: 2490.0607705 (123) total: 1.65s remaining: 1.01s
124: learn: 2486.8368714 test: 2486.2955513 best: 2486.2955513 (124) total: 1.67s remaining: 1s
125: learn: 2483.1772033 test: 2482.7159671 best: 2482.7159671 (125) total: 1.68s remaining: 986ms
126: learn: 2478.0171159 test: 2477.4932092 best: 2477.4932092 (126) total: 1.7s remaining: 975ms
127: learn: 2474.6561542 test: 2474.2164023 best: 2474.2164023 (127) total: 1.71s remaining: 961ms
128: learn: 2471.3077340 test: 2470.7409440 best: 2470.7409440 (128) total: 1.72s remaining: 947ms
129: learn: 2466.4452071 test: 2465.8158243 best: 2465.8158243 (129) total: 1.73s remaining: 933ms
130: learn: 2463.2641409 test: 2462.3359961 best: 2462.3359961 (130) total: 1.75s remaining: 920ms
131: learn: 2460.0290655 test: 2459.1922497 best: 2459.1922497 (131) total: 1.76s remaining: 907ms

132: learn: 2456.7839388 test: 2455.9687109 best: 2455.9687109 (132) total: 1.77s remaining: 893ms
133: learn: 2453.7474735 test: 2452.7194946 best: 2452.7194946 (133) total: 1.78s remaining: 879ms
134: learn: 2450.4443548 test: 2449.4714304 best: 2449.4714304 (134) total: 1.8s remaining: 866ms
135: learn: 2445.8927178 test: 2444.8600197 best: 2444.8600197 (135) total: 1.81s remaining: 852ms
136: learn: 2442.8612203 test: 2441.6008290 best: 2441.6008290 (136) total: 1.82s remaining: 838ms
137: learn: 2439.9196710 test: 2438.3684811 best: 2438.3684811 (137) total: 1.83s remaining: 824ms
138: learn: 2437.0020149 test: 2435.2778562 best: 2435.2778562 (138) total: 1.85s remaining: 811ms
139: learn: 2434.0734993 test: 2432.4388610 best: 2432.4388610 (139) total: 1.86s remaining: 798ms
140: learn: 2431.2062070 test: 2429.5001586 best: 2429.5001586 (140) total: 1.88s remaining: 786ms
141: learn: 2427.2175506 test: 2425.4052476 best: 2425.4052476 (141) total: 1.9s remaining: 774ms
142: learn: 2423.1885866 test: 2421.2762464 best: 2421.2762464 (142) total: 1.91s remaining: 761ms
143: learn: 2420.4424925 test: 2418.6166484 best: 2418.6166484 (143) total: 1.92s remaining: 747ms
144: learn: 2417.8814464 test: 2416.1389175 best: 2416.1389175 (144) total: 1.93s remaining: 733ms
145: learn: 2415.0559428 test: 2413.3467034 best: 2413.3467034 (145) total: 1.94s remaining: 719ms
146: learn: 2412.3943996 test: 2410.7189663 best: 2410.7189663 (146) total: 1.96s remaining: 706ms
147: learn: 2408.4989507 test: 2406.7051309 best: 2406.7051309 (147) total: 1.97s remaining: 692ms
148: learn: 2405.9642662 test: 2403.8679824 best: 2403.8679824 (148) total: 1.98s remaining: 678ms
149: learn: 2402.2791159 test: 2400.1151589 best: 2400.1151589 (149) total: 2s remaining: 665ms
150: learn: 2399.8180035 test: 2397.7095346 best: 2397.7095346 (150) total: 2.01s remaining: 652ms
151: learn: 2396.0855675 test: 2393.9196278 best: 2393.9196278 (151) total: 2.02s remaining: 638ms
152: learn: 2393.2657707 test: 2390.9769134 best: 2390.9769134 (152) total: 2.03s remaining: 625ms
153: learn: 2390.7770500 test: 2388.2508732 best: 2388.2508732 (153) total: 2.04s remaining: 611ms
154: learn: 2388.2432871 test: 2385.4948192 best: 2385.4948192 (154) total: 2.06s remaining: 597ms
155: learn: 2385.8673877 test: 2383.0623753 best: 2383.0623753 (155) total: 2.07s remaining: 584ms
156: learn: 2383.4720471 test: 2380.7462794 best: 2380.7462794 (156) total: 2.08s remaining: 570ms
157: learn: 2381.1888582 test: 2378.2771687 best: 2378.2771687 (157) total: 2.1s remaining: 558ms
158: learn: 2377.6754925 test: 2374.6715756 best: 2374.6715756 (158) total: 2.11s remaining: 545ms
159: learn: 2375.3538970 test: 2372.2262003 best: 2372.2262003 (159) total: 2.13s remaining: 531ms
160: learn: 2373.0096988 test: 2369.6027493 best: 2369.6027493 (160) total: 2.14s remaining: 518ms
161: learn: 2370.7841104 test: 2367.4126419 best: 2367.4126419 (161) total: 2.15s remaining: 504ms
162: learn: 2367.5467560 test: 2364.0761696 best: 2364.0761696 (162) total: 2.16s remaining: 491ms
163: learn: 2365.3490889 test: 2361.7788150 best: 2361.7788150 (163) total: 2.17s remaining: 477ms
164: learn: 2362.1971072 test: 2358.5679310 best: 2358.5679310 (164) total: 2.19s remaining: 464ms
165: learn: 2360.0162749 test: 2356.4269881 best: 2356.4269881 (165) total: 2.2s remaining: 451ms
166: learn: 2357.9061196 test: 2354.4321878 best: 2354.4321878 (166) total: 2.21s remaining: 437ms
167: learn: 2355.8363034 test: 2352.2604010 best: 2352.2604010 (167) total: 2.23s remaining: 424ms
168: learn: 2353.1982031 test: 2349.5407016 best: 2349.5407016 (168) total: 2.24s remaining: 411ms
169: learn: 2351.1597475 test: 2347.5439857 best: 2347.5439857 (169) total: 2.25s remaining: 397ms
170: learn: 2349.1388729 test: 2345.2361563 best: 2345.2361563 (170) total: 2.26s remaining: 384ms
171: learn: 2347.0967235 test: 2343.2564642 best: 2343.2564642 (171) total: 2.28s remaining: 371ms
172: learn: 2344.0930927 test: 2340.1681713 best: 2340.1681713 (172) total: 2.29s remaining: 358ms
173: learn: 2342.0185145 test: 2337.9890706 best: 2337.9890706 (173) total: 2.31s remaining: 345ms

174: learn: 2340.1549851 test: 2336.1495888 best: 2336.1495888 (174) total: 2.32s remaining: 331ms
175: learn: 2338.1156737 test: 2333.7526433 best: 2333.7526433 (175) total: 2.33s remaining: 318ms
176: learn: 2335.3057401 test: 2330.8593502 best: 2330.8593502 (176) total: 2.34s remaining: 305ms
177: learn: 2333.4089836 test: 2329.0346620 best: 2329.0346620 (177) total: 2.36s remaining: 291ms
178: learn: 2330.6521589 test: 2326.1826451 best: 2326.1826451 (178) total: 2.37s remaining: 278ms
179: learn: 2328.7838437 test: 2324.2730148 best: 2324.2730148 (179) total: 2.38s remaining: 265ms
180: learn: 2327.0235581 test: 2322.3054649 best: 2322.3054649 (180) total: 2.4s remaining: 251ms
181: learn: 2325.1908526 test: 2320.5489905 best: 2320.5489905 (181) total: 2.41s remaining: 238ms
182: learn: 2323.3565864 test: 2318.7606738 best: 2318.7606738 (182) total: 2.42s remaining: 225ms
183: learn: 2321.3423873 test: 2316.3987146 best: 2316.3987146 (183) total: 2.43s remaining: 212ms
184: learn: 2319.6949271 test: 2314.7891296 best: 2314.7891296 (184) total: 2.44s remaining: 198ms
185: learn: 2317.0916389 test: 2312.0927109 best: 2312.0927109 (185) total: 2.46s remaining: 185ms
186: learn: 2315.3431376 test: 2310.2688510 best: 2310.2688510 (186) total: 2.47s remaining: 172ms
187: learn: 2313.4613818 test: 2308.3959774 best: 2308.3959774 (187) total: 2.48s remaining: 159ms
188: learn: 2311.7440864 test: 2306.5207926 best: 2306.5207926 (188) total: 2.5s remaining: 145ms
189: learn: 2310.0888672 test: 2304.7389718 best: 2304.7389718 (189) total: 2.51s remaining: 132ms
190: learn: 2308.3412964 test: 2303.0519021 best: 2303.0519021 (190) total: 2.52s remaining: 119ms
191: learn: 2306.7070151 test: 2301.3048110 best: 2301.3048110 (191) total: 2.54s remaining: 106ms
192: learn: 2305.1049275 test: 2299.7496149 best: 2299.7496149 (192) total: 2.55s remaining: 92.5ms
193: learn: 2303.4487598 test: 2297.9729728 best: 2297.9729728 (193) total: 2.56s remaining: 79.3ms
194: learn: 2301.0191787 test: 2295.4261652 best: 2295.4261652 (194) total: 2.57s remaining: 66ms
195: learn: 2298.5332635 test: 2292.8878726 best: 2292.8878726 (195) total: 2.59s remaining: 52.8ms
196: learn: 2296.9886523 test: 2291.4858992 best: 2291.4858992 (196) total: 2.6s remaining: 39.6ms
197: learn: 2294.6459543 test: 2289.0911644 best: 2289.0911644 (197) total: 2.61s remaining: 26.4ms
198: learn: 2293.1252577 test: 2287.4679295 best: 2287.4679295 (198) total: 2.63s remaining: 13.2ms
199: learn: 2291.6432709 test: 2286.0809747 best: 2286.0809747 (199) total: 2.64s remaining: 0us

bestTest = 2286.080975

bestIteration = 199

16: loss: 2286.0809747 best: 2037.1442938 (15) total: 30.8s remaining: 2m 23s
0: learn: 6448.8464120 test: 6477.8169153 best: 6477.8169153 (0) total: 13.2ms remaining: 2.62s
1: learn: 5970.9021186 test: 5999.9301137 best: 5999.9301137 (1) total: 25.8ms remaining: 2.55s
2: learn: 5555.1449951 test: 5583.5154288 best: 5583.5154288 (2) total: 42.5ms remaining: 2.79s
3: learn: 5181.1846417 test: 5210.8063907 best: 5210.8063907 (3) total: 55.6ms remaining: 2.72s
4: learn: 4854.3990850 test: 4885.0637991 best: 4885.0637991 (4) total: 67.8ms remaining: 2.64s
5: learn: 4567.4745857 test: 4597.2176374 best: 4597.2176374 (5) total: 80.6ms remaining: 2.61s
6: learn: 4324.0249699 test: 4352.8571289 best: 4352.8571289 (6) total: 93.8ms remaining: 2.58s
7: learn: 4104.6836148 test: 4131.8284171 best: 4131.8284171 (7) total: 106ms remaining: 2.55s
8: learn: 3917.1707585 test: 3943.2597283 best: 3943.2597283 (8) total: 120ms remaining: 2.54s
9: learn: 3748.6387570 test: 3774.5617452 best: 3774.5617452 (9) total: 134ms remaining: 2.55s

10: learn: 3605.2025170 test: 3629.5245330 best: 3629.5245330 (10) total: 147ms remaining: 2.53s
11: learn: 3476.4011880 test: 3500.3679991 best: 3500.3679991 (11) total: 161ms remaining: 2.52s
12: learn: 3370.1841871 test: 3392.6798865 best: 3392.6798865 (12) total: 174ms remaining: 2.5s
13: learn: 3264.2296449 test: 3284.5219702 best: 3284.5219702 (13) total: 187ms remaining: 2.48s
14: learn: 3174.1505989 test: 3192.4644974 best: 3192.4644974 (14) total: 200ms remaining: 2.47s
15: learn: 3100.6106361 test: 3117.6327477 best: 3117.6327477 (15) total: 214ms remaining: 2.46s
16: learn: 3028.0057234 test: 3043.7480917 best: 3043.7480917 (16) total: 227ms remaining: 2.44s
17: learn: 2968.0201668 test: 2982.1101731 best: 2982.1101731 (17) total: 243ms remaining: 2.45s
18: learn: 2912.5709088 test: 2926.1772809 best: 2926.1772809 (18) total: 256ms remaining: 2.44s
19: learn: 2867.6761467 test: 2879.6904237 best: 2879.6904237 (19) total: 271ms remaining: 2.44s
20: learn: 2822.7321517 test: 2833.7667802 best: 2833.7667802 (20) total: 284ms remaining: 2.42s
21: learn: 2786.4765679 test: 2796.6066563 best: 2796.6066563 (21) total: 297ms remaining: 2.4s
22: learn: 2752.7530120 test: 2761.3480330 best: 2761.3480330 (22) total: 310ms remaining: 2.38s
23: learn: 2725.2321155 test: 2732.6532735 best: 2732.6532735 (23) total: 322ms remaining: 2.36s
24: learn: 2699.5942954 test: 2706.2205481 best: 2706.2205481 (24) total: 337ms remaining: 2.36s
25: learn: 2676.7851226 test: 2682.3422440 best: 2682.3422440 (25) total: 350ms remaining: 2.34s
26: learn: 2654.9942707 test: 2658.9855918 best: 2658.9855918 (26) total: 363ms remaining: 2.33s
27: learn: 2635.0266813 test: 2638.6266470 best: 2638.6266470 (27) total: 379ms remaining: 2.33s
28: learn: 2608.4140401 test: 2611.5418912 best: 2611.5418912 (28) total: 392ms remaining: 2.31s
29: learn: 2588.8851304 test: 2592.1564251 best: 2592.1564251 (29) total: 404ms remaining: 2.29s
30: learn: 2573.3734193 test: 2575.5651525 best: 2575.5651525 (30) total: 417ms remaining: 2.27s
31: learn: 2558.0105415 test: 2559.5820164 best: 2559.5820164 (31) total: 433ms remaining: 2.27s
32: learn: 2542.8518276 test: 2544.5890737 best: 2544.5890737 (32) total: 446ms remaining: 2.25s
33: learn: 2529.1851082 test: 2530.7407126 best: 2530.7407126 (33) total: 458ms remaining: 2.24s
34: learn: 2510.3671237 test: 2511.4990689 best: 2511.4990689 (34) total: 474ms remaining: 2.23s
35: learn: 2498.2937125 test: 2498.8723379 best: 2498.8723379 (35) total: 487ms remaining: 2.22s
36: learn: 2485.9858745 test: 2485.4499271 best: 2485.4499271 (36) total: 501ms remaining: 2.21s
37: learn: 2474.4882763 test: 2474.2236883 best: 2474.2236883 (37) total: 513ms remaining: 2.19s
38: learn: 2463.9909176 test: 2463.4394133 best: 2463.4394133 (38) total: 525ms remaining: 2.17s
39: learn: 2453.9793148 test: 2453.0740027 best: 2453.0740027 (39) total: 540ms remaining: 2.16s
40: learn: 2443.7638197 test: 2441.7481750 best: 2441.7481750 (40) total: 552ms remaining: 2.14s
41: learn: 2428.8114065 test: 2426.5964137 best: 2426.5964137 (41) total: 564ms remaining: 2.12s
42: learn: 2419.4101231 test: 2417.6200760 best: 2417.6200760 (42) total: 576ms remaining: 2.1s
43: learn: 2410.8134733 test: 2409.2841987 best: 2409.2841987 (43) total: 587ms remaining: 2.08s
44: learn: 2398.6823629 test: 2396.8246297 best: 2396.8246297 (44) total: 600ms remaining: 2.07s
45: learn: 2390.1310605 test: 2388.2581891 best: 2388.2581891 (45) total: 612ms remaining: 2.05s
46: learn: 2381.8875605 test: 2379.4993952 best: 2379.4993952 (46) total: 629ms remaining: 2.05s
47: learn: 2373.4659933 test: 2370.5833858 best: 2370.5833858 (47) total: 641ms remaining: 2.03s
48: learn: 2366.3058109 test: 2362.4117703 best: 2362.4117703 (48) total: 653ms remaining: 2.01s
49: learn: 2359.2092641 test: 2355.0288886 best: 2355.0288886 (49) total: 665ms remaining: 2s
50: learn: 2348.8729505 test: 2344.5006736 best: 2344.5006736 (50) total: 677ms remaining: 1.98s

51: learn: 2342.6157975 test: 2338.5685630 best: 2338.5685630 (51) total: 689ms remaining: 1.96s
52: learn: 2336.4490309 test: 2332.1402553 best: 2332.1402553 (52) total: 701ms remaining: 1.94s
53: learn: 2330.5029118 test: 2326.3451438 best: 2326.3451438 (53) total: 713ms remaining: 1.93s
54: learn: 2325.0470597 test: 2321.1091774 best: 2321.1091774 (54) total: 727ms remaining: 1.92s
55: learn: 2316.7657643 test: 2312.5387909 best: 2312.5387909 (55) total: 739ms remaining: 1.9s
56: learn: 2311.1263692 test: 2306.6342152 best: 2306.6342152 (56) total: 751ms remaining: 1.88s
57: learn: 2305.8982472 test: 2301.0322311 best: 2301.0322311 (57) total: 763ms remaining: 1.87s
58: learn: 2297.2479231 test: 2292.2076083 best: 2292.2076083 (58) total: 775ms remaining: 1.85s
59: learn: 2292.6845599 test: 2287.5340936 best: 2287.5340936 (59) total: 788ms remaining: 1.84s
60: learn: 2287.7610085 test: 2282.8908456 best: 2282.8908456 (60) total: 800ms remaining: 1.82s
61: learn: 2282.5025247 test: 2277.3845880 best: 2277.3845880 (61) total: 812ms remaining: 1.81s
62: learn: 2276.7905678 test: 2270.7501530 best: 2270.7501530 (62) total: 830ms remaining: 1.8s
63: learn: 2271.0458511 test: 2264.9321133 best: 2264.9321133 (63) total: 844ms remaining: 1.79s
64: learn: 2264.6000232 test: 2258.3255977 best: 2258.3255977 (64) total: 857ms remaining: 1.78s
65: learn: 2260.2095722 test: 2254.0754566 best: 2254.0754566 (65) total: 870ms remaining: 1.77s
66: learn: 2256.1076988 test: 2250.2941841 best: 2250.2941841 (66) total: 882ms remaining: 1.75s
67: learn: 2251.9160108 test: 2245.5454488 best: 2245.5454488 (67) total: 894ms remaining: 1.74s
68: learn: 2246.7381779 test: 2239.9799367 best: 2239.9799367 (68) total: 906ms remaining: 1.72s
69: learn: 2242.6800205 test: 2235.7749219 best: 2235.7749219 (69) total: 917ms remaining: 1.7s
70: learn: 2239.1111888 test: 2232.2998168 best: 2232.2998168 (70) total: 931ms remaining: 1.69s
71: learn: 2233.5875618 test: 2226.5193512 best: 2226.5193512 (71) total: 943ms remaining: 1.68s
72: learn: 2230.1603635 test: 2223.3272624 best: 2223.3272624 (72) total: 955ms remaining: 1.66s
73: learn: 2225.1636203 test: 2217.9828962 best: 2217.9828962 (73) total: 968ms remaining: 1.65s
74: learn: 2220.2308654 test: 2212.8215770 best: 2212.8215770 (74) total: 980ms remaining: 1.63s
75: learn: 2216.0025053 test: 2208.7830367 best: 2208.7830367 (75) total: 993ms remaining: 1.62s
76: learn: 2211.9858353 test: 2204.9848210 best: 2204.9848210 (76) total: 1s remaining: 1.6s
77: learn: 2208.7479227 test: 2201.9245211 best: 2201.9245211 (77) total: 1.02s remaining: 1.59s
78: learn: 2204.2628103 test: 2197.2066647 best: 2197.2066647 (78) total: 1.03s remaining: 1.58s
79: learn: 2199.9825707 test: 2192.6115690 best: 2192.6115690 (79) total: 1.04s remaining: 1.57s
80: learn: 2197.0013365 test: 2189.1560571 best: 2189.1560571 (80) total: 1.06s remaining: 1.55s
81: learn: 2192.7004190 test: 2184.7336268 best: 2184.7336268 (81) total: 1.07s remaining: 1.54s
82: learn: 2190.0743298 test: 2182.1774528 best: 2182.1774528 (82) total: 1.08s remaining: 1.52s
83: learn: 2186.8337737 test: 2178.7726306 best: 2178.7726306 (83) total: 1.09s remaining: 1.51s
84: learn: 2183.1347561 test: 2174.8983761 best: 2174.8983761 (84) total: 1.1s remaining: 1.49s
85: learn: 2180.1081762 test: 2172.1501767 best: 2172.1501767 (85) total: 1.11s remaining: 1.48s
86: learn: 2177.2754845 test: 2169.4344070 best: 2169.4344070 (86) total: 1.13s remaining: 1.47s
87: learn: 2174.1821681 test: 2166.3059607 best: 2166.3059607 (87) total: 1.14s remaining: 1.45s
88: learn: 2171.3715147 test: 2163.5856833 best: 2163.5856833 (88) total: 1.15s remaining: 1.44s
89: learn: 2168.9085561 test: 2160.9509861 best: 2160.9509861 (89) total: 1.17s remaining: 1.42s
90: learn: 2165.7155685 test: 2157.5790543 best: 2157.5790543 (90) total: 1.18s remaining: 1.41s
91: learn: 2163.2916616 test: 2155.5257547 best: 2155.5257547 (91) total: 1.19s remaining: 1.4s
92: learn: 2153.1224221 best: 2151.5221212 best: 2151.5221212 (92) total: 1.2s remaining: 1.39s

92: learn: 2159.4304291 test: 2151.5821013 best: 2151.5821013 (92) total: 1.2s remaining: 1.38s
93: learn: 2156.1400250 test: 2148.0242463 best: 2148.0242463 (93) total: 1.21s remaining: 1.37s
94: learn: 2153.1995904 test: 2145.2416603 best: 2145.2416603 (94) total: 1.23s remaining: 1.36s
95: learn: 2150.6933350 test: 2142.6853663 best: 2142.6853663 (95) total: 1.24s remaining: 1.35s
96: learn: 2146.6158572 test: 2138.3696601 best: 2138.3696601 (96) total: 1.25s remaining: 1.33s
97: learn: 2143.9304985 test: 2135.8904196 best: 2135.8904196 (97) total: 1.27s remaining: 1.32s
98: learn: 2141.6052012 test: 2133.8502308 best: 2133.8502308 (98) total: 1.28s remaining: 1.3s
99: learn: 2138.9863424 test: 2131.1867154 best: 2131.1867154 (99) total: 1.29s remaining: 1.29s
100: learn: 2136.4276576 test: 2128.8266663 best: 2128.8266663 (100) total: 1.3s remaining: 1.28s
101: learn: 2133.7104433 test: 2126.0949359 best: 2126.0949359 (101) total: 1.31s remaining: 1.26s
102: learn: 2131.5674755 test: 2123.8464963 best: 2123.8464963 (102) total: 1.33s remaining: 1.25s
103: learn: 2129.5283824 test: 2121.5289417 best: 2121.5289417 (103) total: 1.34s remaining: 1.24s
104: learn: 2126.3819280 test: 2118.4486716 best: 2118.4486716 (104) total: 1.35s remaining: 1.23s
105: learn: 2124.3185215 test: 2116.5238398 best: 2116.5238398 (105) total: 1.37s remaining: 1.21s
106: learn: 2122.4097294 test: 2114.6791199 best: 2114.6791199 (106) total: 1.38s remaining: 1.2s
107: learn: 2119.6480686 test: 2111.6879772 best: 2111.6879772 (107) total: 1.39s remaining: 1.19s
108: learn: 2116.5777589 test: 2108.6517907 best: 2108.6517907 (108) total: 1.4s remaining: 1.17s
109: learn: 2114.6543669 test: 2106.8778524 best: 2106.8778524 (109) total: 1.42s remaining: 1.16s
110: learn: 2112.8839405 test: 2105.3383255 best: 2105.3383255 (110) total: 1.43s remaining: 1.15s
111: learn: 2109.9198356 test: 2102.2490697 best: 2102.2490697 (111) total: 1.45s remaining: 1.14s
112: learn: 2107.9891863 test: 2100.2714397 best: 2100.2714397 (112) total: 1.46s remaining: 1.12s
113: learn: 2106.2666598 test: 2098.6472644 best: 2098.6472644 (113) total: 1.47s remaining: 1.11s
114: learn: 2103.7525569 test: 2095.9247282 best: 2095.9247282 (114) total: 1.49s remaining: 1.1s
115: learn: 2101.9225400 test: 2094.2822168 best: 2094.2822168 (115) total: 1.5s remaining: 1.08s
116: learn: 2099.8054611 test: 2092.1270688 best: 2092.1270688 (116) total: 1.52s remaining: 1.08s
117: learn: 2097.8001839 test: 2090.3939439 best: 2090.3939439 (117) total: 1.53s remaining: 1.06s
118: learn: 2096.1560233 test: 2088.8098282 best: 2088.8098282 (118) total: 1.54s remaining: 1.05s
119: learn: 2093.6847557 test: 2086.3970181 best: 2086.3970181 (119) total: 1.56s remaining: 1.04s
120: learn: 2092.1728971 test: 2085.1522153 best: 2085.1522153 (120) total: 1.57s remaining: 1.02s
121: learn: 2090.5541086 test: 2083.3352528 best: 2083.3352528 (121) total: 1.58s remaining: 1.01s
122: learn: 2089.0208301 test: 2081.9439601 best: 2081.9439601 (122) total: 1.59s remaining: 997ms
123: learn: 2086.7612142 test: 2079.4921206 best: 2079.4921206 (123) total: 1.6s remaining: 984ms
124: learn: 2085.3241775 test: 2078.3926469 best: 2078.3926469 (124) total: 1.62s remaining: 971ms
125: learn: 2082.8288285 test: 2075.9299996 best: 2075.9299996 (125) total: 1.63s remaining: 958ms
126: learn: 2080.8028372 test: 2073.9510689 best: 2073.9510689 (126) total: 1.64s remaining: 945ms
127: learn: 2079.2568989 test: 2072.5073626 best: 2072.5073626 (127) total: 1.66s remaining: 932ms
128: learn: 2077.8230050 test: 2071.2263358 best: 2071.2263358 (128) total: 1.67s remaining: 919ms
129: learn: 2076.5106354 test: 2069.7979017 best: 2069.7979017 (129) total: 1.68s remaining: 905ms
130: learn: 2074.3540695 test: 2067.4584381 best: 2067.4584381 (130) total: 1.69s remaining: 892ms
131: learn: 2072.9918506 test: 2066.3079357 best: 2066.3079357 (131) total: 1.7s remaining: 878ms
132: learn: 2070.6240489 test: 2063.7299178 best: 2063.7299178 (132) total: 1.72s remaining: 867ms
133: learn: 2068.6442290 test: 2061.5763583 best: 2061.5763583 (133) total: 1.73s remaining: 853ms

134: learn: 2067.2269440 test: 2060.0048093 best: 2060.0048093 (134) total: 1.74s remaining: 839ms
135: learn: 2065.8683305 test: 2058.5471152 best: 2058.5471152 (135) total: 1.76s remaining: 827ms
136: learn: 2064.4248285 test: 2057.1017344 best: 2057.1017344 (136) total: 1.77s remaining: 814ms
137: learn: 2063.1120912 test: 2055.8949441 best: 2055.8949441 (137) total: 1.78s remaining: 801ms
138: learn: 2061.9153938 test: 2054.7518810 best: 2054.7518810 (138) total: 1.79s remaining: 788ms
139: learn: 2059.9959761 test: 2052.7433269 best: 2052.7433269 (139) total: 1.81s remaining: 775ms
140: learn: 2058.1772218 test: 2050.6055788 best: 2050.6055788 (140) total: 1.82s remaining: 763ms
141: learn: 2056.6450085 test: 2049.3657099 best: 2049.3657099 (141) total: 1.84s remaining: 750ms
142: learn: 2055.3297857 test: 2047.8645636 best: 2047.8645636 (142) total: 1.85s remaining: 737ms
143: learn: 2054.1554328 test: 2046.7526621 best: 2046.7526621 (143) total: 1.86s remaining: 724ms
144: learn: 2052.7915149 test: 2045.5516282 best: 2045.5516282 (144) total: 1.88s remaining: 711ms
145: learn: 2051.1831873 test: 2043.9383738 best: 2043.9383738 (145) total: 1.89s remaining: 698ms
146: learn: 2049.9984131 test: 2042.8013990 best: 2042.8013990 (146) total: 1.9s remaining: 686ms
147: learn: 2048.9132371 test: 2041.6059502 best: 2041.6059502 (147) total: 1.92s remaining: 674ms
148: learn: 2047.4464152 test: 2040.0490841 best: 2040.0490841 (148) total: 1.93s remaining: 660ms
149: learn: 2046.4274296 test: 2038.7033683 best: 2038.7033683 (149) total: 1.94s remaining: 647ms
150: learn: 2044.7922550 test: 2037.0096723 best: 2037.0096723 (150) total: 1.95s remaining: 634ms
151: learn: 2043.7506144 test: 2036.2654021 best: 2036.2654021 (151) total: 1.97s remaining: 621ms
152: learn: 2042.1335627 test: 2034.5049065 best: 2034.5049065 (152) total: 1.98s remaining: 608ms
153: learn: 2041.0407581 test: 2033.4949295 best: 2033.4949295 (153) total: 1.99s remaining: 594ms
154: learn: 2039.9168250 test: 2032.3999765 best: 2032.3999765 (154) total: 2s remaining: 581ms
155: learn: 2038.8869525 test: 2031.5611302 best: 2031.5611302 (155) total: 2.02s remaining: 569ms
156: learn: 2037.7143604 test: 2030.3826793 best: 2030.3826793 (156) total: 2.03s remaining: 556ms
157: learn: 2036.7516472 test: 2029.5497220 best: 2029.5497220 (157) total: 2.04s remaining: 543ms
158: learn: 2035.5229715 test: 2028.5050997 best: 2028.5050997 (158) total: 2.05s remaining: 529ms
159: learn: 2034.1899873 test: 2027.2118509 best: 2027.2118509 (159) total: 2.06s remaining: 516ms
160: learn: 2032.8386494 test: 2025.8221034 best: 2025.8221034 (160) total: 2.08s remaining: 503ms
161: learn: 2031.1915847 test: 2023.9903279 best: 2023.9903279 (161) total: 2.09s remaining: 490ms
162: learn: 2029.7598813 test: 2022.5298520 best: 2022.5298520 (162) total: 2.1s remaining: 477ms
163: learn: 2028.8364939 test: 2021.6227070 best: 2021.6227070 (163) total: 2.12s remaining: 465ms
164: learn: 2027.9473098 test: 2020.6638575 best: 2020.6638575 (164) total: 2.13s remaining: 451ms
165: learn: 2026.5385575 test: 2019.1070934 best: 2019.1070934 (165) total: 2.14s remaining: 438ms
166: learn: 2025.3701209 test: 2017.8204079 best: 2017.8204079 (166) total: 2.15s remaining: 425ms
167: learn: 2024.4648605 test: 2016.9493961 best: 2016.9493961 (167) total: 2.16s remaining: 412ms
168: learn: 2023.6093972 test: 2016.3014615 best: 2016.3014615 (168) total: 2.17s remaining: 399ms
169: learn: 2022.7677978 test: 2015.5371586 best: 2015.5371586 (169) total: 2.19s remaining: 386ms
170: learn: 2021.9499628 test: 2014.8435478 best: 2014.8435478 (170) total: 2.2s remaining: 373ms
171: learn: 2021.0961250 test: 2013.9965421 best: 2013.9965421 (171) total: 2.21s remaining: 361ms
172: learn: 2019.5675830 test: 2012.5995917 best: 2012.5995917 (172) total: 2.23s remaining: 348ms
173: learn: 2018.2923242 test: 2011.2526917 best: 2011.2526917 (173) total: 2.24s remaining: 335ms
174: learn: 2017.5260930 test: 2010.7590039 best: 2010.7590039 (174) total: 2.25s remaining: 322ms

175: learn: 2016.3649962 test: 2009.7349847 best: 2009.7349847 (175) total: 2.26s remaining: 309ms
176: learn: 2015.5564709 test: 2008.9537005 best: 2008.9537005 (176) total: 2.27s remaining: 296ms
177: learn: 2014.7934368 test: 2008.2681975 best: 2008.2681975 (177) total: 2.29s remaining: 283ms
178: learn: 2013.7374547 test: 2007.2156799 best: 2007.2156799 (178) total: 2.3s remaining: 270ms
179: learn: 2012.9811521 test: 2006.5056321 best: 2006.5056321 (179) total: 2.32s remaining: 257ms
180: learn: 2012.0106284 test: 2005.6861034 best: 2005.6861034 (180) total: 2.33s remaining: 244ms
181: learn: 2011.2767905 test: 2005.0527851 best: 2005.0527851 (181) total: 2.34s remaining: 231ms
182: learn: 2010.5591453 test: 2004.2960863 best: 2004.2960863 (182) total: 2.35s remaining: 218ms
183: learn: 2009.8325964 test: 2003.4494213 best: 2003.4494213 (183) total: 2.36s remaining: 206ms
184: learn: 2009.1052913 test: 2002.7603674 best: 2002.7603674 (184) total: 2.37s remaining: 193ms
185: learn: 2008.0943818 test: 2001.8206776 best: 2001.8206776 (185) total: 2.39s remaining: 180ms
186: learn: 2006.7512541 test: 2000.4784538 best: 2000.4784538 (186) total: 2.4s remaining: 167ms
187: learn: 2006.0657695 test: 1999.9009644 best: 1999.9009644 (187) total: 2.41s remaining: 154ms
188: learn: 2005.3181804 test: 1999.0891117 best: 1999.0891117 (188) total: 2.43s remaining: 141ms
189: learn: 2004.5731569 test: 1998.3397958 best: 1998.3397958 (189) total: 2.44s remaining: 128ms
190: learn: 2003.3940083 test: 1997.0374000 best: 1997.0374000 (190) total: 2.46s remaining: 116ms
191: learn: 2002.3938462 test: 1996.0882587 best: 1996.0882587 (191) total: 2.47s remaining: 103ms
192: learn: 2001.7168946 test: 1995.4123135 best: 1995.4123135 (192) total: 2.48s remaining: 90ms
193: learn: 1999.7831448 test: 1993.5432286 best: 1993.5432286 (193) total: 2.5s remaining: 77.2ms
194: learn: 1999.0845307 test: 1992.9128020 best: 1992.9128020 (194) total: 2.51s remaining: 64.3ms
195: learn: 1998.4937133 test: 1992.3621366 best: 1992.3621366 (195) total: 2.52s remaining: 51.4ms
196: learn: 1997.7940694 test: 1991.7037174 best: 1991.7037174 (196) total: 2.53s remaining: 38.6ms
197: learn: 1997.1294933 test: 1990.8463746 best: 1990.8463746 (197) total: 2.55s remaining: 25.7ms
198: learn: 1996.0712958 test: 1989.6776771 best: 1989.6776771 (198) total: 2.56s remaining: 12.9ms
199: learn: 1995.2964537 test: 1989.0332758 best: 1989.0332758 (199) total: 2.57s remaining: 0us

bestTest = 1989.033276

bestIteration = 199

17: loss: 1989.0332758 best: 1989.0332758 (17) total: 33.4s remaining: 2m 24s
0: learn: 6820.7403064 test: 6849.0949443 best: 6849.0949443 (0) total: 13ms remaining: 2.59s
1: learn: 6663.6570013 test: 6692.2279647 best: 6692.2279647 (1) total: 27.1ms remaining: 2.68s
2: learn: 6511.9921738 test: 6540.6944200 best: 6540.6944200 (2) total: 39.4ms remaining: 2.59s
3: learn: 6366.0072014 test: 6394.9927471 best: 6394.9927471 (3) total: 51.5ms remaining: 2.52s
4: learn: 6224.2466447 test: 6253.5697078 best: 6253.5697078 (4) total: 63.7ms remaining: 2.48s
5: learn: 6088.8782381 test: 6118.2580239 best: 6118.2580239 (5) total: 76ms remaining: 2.46s
6: learn: 5958.6329696 test: 5988.1242310 best: 5988.1242310 (6) total: 88.4ms remaining: 2.44s
7: learn: 5833.0984365 test: 5862.3747453 best: 5862.3747453 (7) total: 101ms remaining: 2.41s
8: learn: 5710.0608919 test: 5739.7510712 best: 5739.7510712 (8) total: 113ms remaining: 2.39s
9: learn: 5591.8232489 test: 5621.8971129 best: 5621.8971129 (9) total: 130ms remaining: 2.48s
10: learn: 5478.3851029 test: 5508.8689766 best: 5508.8689766 (10) total: 143ms remaining: 2.45s

11: learn: 5369.4116200 test: 5400.0704561 best: 5400.0704561 (11) total: 155ms remaining: 2.43s
12: learn: 5264.6704204 test: 5295.6790537 best: 5295.6790537 (12) total: 168ms remaining: 2.41s
13: learn: 5163.8640691 test: 5194.7708194 best: 5194.7708194 (13) total: 180ms remaining: 2.39s
14: learn: 5065.0899236 test: 5095.6230425 best: 5095.6230425 (14) total: 192ms remaining: 2.37s
15: learn: 4971.6182416 test: 5002.0353631 best: 5002.0353631 (15) total: 205ms remaining: 2.35s
16: learn: 4882.0843808 test: 4912.5121379 best: 4912.5121379 (16) total: 217ms remaining: 2.34s
17: learn: 4794.6769056 test: 4825.2522299 best: 4825.2522299 (17) total: 231ms remaining: 2.34s
18: learn: 4711.3899037 test: 4741.6510333 best: 4741.6510333 (18) total: 244ms remaining: 2.32s
19: learn: 4630.2815964 test: 4660.1772844 best: 4660.1772844 (19) total: 256ms remaining: 2.3s
20: learn: 4553.4291782 test: 4583.2650551 best: 4583.2650551 (20) total: 268ms remaining: 2.28s
21: learn: 4479.7078055 test: 4509.2743572 best: 4509.2743572 (21) total: 280ms remaining: 2.26s
22: learn: 4407.1719057 test: 4436.6266729 best: 4436.6266729 (22) total: 293ms remaining: 2.25s
23: learn: 4336.8064509 test: 4365.7962196 best: 4365.7962196 (23) total: 305ms remaining: 2.24s
24: learn: 4269.1603617 test: 4297.7030338 best: 4297.7030338 (24) total: 317ms remaining: 2.22s
25: learn: 4204.0031258 test: 4232.1305961 best: 4232.1305961 (25) total: 332ms remaining: 2.22s
26: learn: 4143.4705546 test: 4171.3099055 best: 4171.3099055 (26) total: 345ms remaining: 2.21s
27: learn: 4083.2869395 test: 4110.8152682 best: 4110.8152682 (27) total: 356ms remaining: 2.19s
28: learn: 4025.8581679 test: 4052.9015707 best: 4052.9015707 (28) total: 368ms remaining: 2.17s
29: learn: 3971.4262898 test: 3997.9541780 best: 3997.9541780 (29) total: 381ms remaining: 2.16s
30: learn: 3920.0572137 test: 3946.1276720 best: 3946.1276720 (30) total: 393ms remaining: 2.14s
31: learn: 3870.1370365 test: 3896.0064202 best: 3896.0064202 (31) total: 406ms remaining: 2.13s
32: learn: 3823.2805697 test: 3848.7257910 best: 3848.7257910 (32) total: 418ms remaining: 2.12s
33: learn: 3775.5387504 test: 3800.6135901 best: 3800.6135901 (33) total: 430ms remaining: 2.1s
34: learn: 3729.2306303 test: 3753.9813225 best: 3753.9813225 (34) total: 442ms remaining: 2.08s
35: learn: 3687.5916200 test: 3712.0013296 best: 3712.0013296 (35) total: 454ms remaining: 2.07s
36: learn: 3645.4592028 test: 3669.4122356 best: 3669.4122356 (36) total: 466ms remaining: 2.06s
37: learn: 3605.0499678 test: 3628.9308370 best: 3628.9308370 (37) total: 479ms remaining: 2.04s
38: learn: 3566.6664541 test: 3590.2579658 best: 3590.2579658 (38) total: 491ms remaining: 2.03s
39: learn: 3530.0559413 test: 3553.1637746 best: 3553.1637746 (39) total: 507ms remaining: 2.03s
40: learn: 3494.1601588 test: 3516.9582879 best: 3516.9582879 (40) total: 524ms remaining: 2.03s
41: learn: 3459.1476111 test: 3481.7207622 best: 3481.7207622 (41) total: 536ms remaining: 2.01s
42: learn: 3426.9226636 test: 3448.9543432 best: 3448.9543432 (42) total: 548ms remaining: 2s
43: learn: 3395.8813656 test: 3417.4549214 best: 3417.4549214 (43) total: 560ms remaining: 1.99s
44: learn: 3364.2870004 test: 3385.7442454 best: 3385.7442454 (44) total: 573ms remaining: 1.97s
45: learn: 3332.5995595 test: 3353.3517055 best: 3353.3517055 (45) total: 585ms remaining: 1.96s
46: learn: 3301.8748995 test: 3322.0055113 best: 3322.0055113 (46) total: 597ms remaining: 1.94s
47: learn: 3275.1677894 test: 3294.9999425 best: 3294.9999425 (47) total: 609ms remaining: 1.93s
48: learn: 3247.3954403 test: 3266.5446881 best: 3266.5446881 (48) total: 624ms remaining: 1.92s
49: learn: 3221.9234926 test: 3240.4790437 best: 3240.4790437 (49) total: 636ms remaining: 1.91s
50: learn: 3196.3480157 test: 3214.7680952 best: 3214.7680952 (50) total: 648ms remaining: 1.89s
51: learn: 3173.2677078 test: 3191.0771407 best: 3191.0771407 (51) total: 661ms remaining: 1.88s
52: learn: 3148.2020496 test: 3165.6000820 best: 3165.6000820 (52) total: 674ms remaining: 1.87s

52: learn: 3148.2229496 test: 3165.6909829 best: 3165.6909829 (52) total: 674ms remaining: 1.87s
53: learn: 3125.0347122 test: 3141.9804451 best: 3141.9804451 (53) total: 687ms remaining: 1.86s
54: learn: 3102.2696958 test: 3118.9425836 best: 3118.9425836 (54) total: 703ms remaining: 1.85s
55: learn: 3080.6873233 test: 3097.2122878 best: 3097.2122878 (55) total: 720ms remaining: 1.85s
56: learn: 3060.5065517 test: 3076.6206712 best: 3076.6206712 (56) total: 734ms remaining: 1.84s
57: learn: 3040.3702345 test: 3055.9251734 best: 3055.9251734 (57) total: 748ms remaining: 1.83s
58: learn: 3021.4176817 test: 3036.5498379 best: 3036.5498379 (58) total: 760ms remaining: 1.82s
59: learn: 3004.0169468 test: 3018.7055001 best: 3018.7055001 (59) total: 775ms remaining: 1.81s
60: learn: 2987.5411908 test: 3001.6668880 best: 3001.6668880 (60) total: 788ms remaining: 1.79s
61: learn: 2971.1660870 test: 2985.0311473 best: 2985.0311473 (61) total: 802ms remaining: 1.78s
62: learn: 2953.9804361 test: 2967.6940342 best: 2967.6940342 (62) total: 816ms remaining: 1.77s
63: learn: 2936.8926831 test: 2950.2029662 best: 2950.2029662 (63) total: 829ms remaining: 1.76s
64: learn: 2922.8316085 test: 2935.6652738 best: 2935.6652738 (64) total: 842ms remaining: 1.75s
65: learn: 2907.2421924 test: 2919.7440129 best: 2919.7440129 (65) total: 855ms remaining: 1.74s
66: learn: 2892.7696615 test: 2904.8550549 best: 2904.8550549 (66) total: 867ms remaining: 1.72s
67: learn: 2878.6806545 test: 2890.2190683 best: 2890.2190683 (67) total: 880ms remaining: 1.71s
68: learn: 2864.5643477 test: 2875.9555462 best: 2875.9555462 (68) total: 892ms remaining: 1.69s
69: learn: 2851.6169151 test: 2862.6117607 best: 2862.6117607 (69) total: 905ms remaining: 1.68s
70: learn: 2839.2277731 test: 2849.7624344 best: 2849.7624344 (70) total: 921ms remaining: 1.67s
71: learn: 2826.6326538 test: 2837.0186819 best: 2837.0186819 (71) total: 933ms remaining: 1.66s
72: learn: 2815.0012275 test: 2824.9888289 best: 2824.9888289 (72) total: 945ms remaining: 1.64s
73: learn: 2804.1105817 test: 2813.7349799 best: 2813.7349799 (73) total: 958ms remaining: 1.63s
74: learn: 2793.1280872 test: 2802.4505273 best: 2802.4505273 (74) total: 970ms remaining: 1.62s
75: learn: 2782.9271761 test: 2791.8172488 best: 2791.8172488 (75) total: 982ms remaining: 1.6s
76: learn: 2771.9897704 test: 2780.6123588 best: 2780.6123588 (76) total: 994ms remaining: 1.59s
77: learn: 2762.5265678 test: 2770.8224647 best: 2770.8224647 (77) total: 1.01s remaining: 1.57s
78: learn: 2751.4599638 test: 2759.5855462 best: 2759.5855462 (78) total: 1.02s remaining: 1.56s
79: learn: 2741.6772644 test: 2749.5212590 best: 2749.5212590 (79) total: 1.03s remaining: 1.55s
80: learn: 2732.9504192 test: 2740.4073682 best: 2740.4073682 (80) total: 1.05s remaining: 1.54s
81: learn: 2724.3731064 test: 2731.3810060 best: 2731.3810060 (81) total: 1.06s remaining: 1.52s
82: learn: 2716.2326488 test: 2722.7860549 best: 2722.7860549 (82) total: 1.07s remaining: 1.51s
83: learn: 2708.5627961 test: 2714.7940880 best: 2714.7940880 (83) total: 1.08s remaining: 1.5s
84: learn: 2701.0459690 test: 2706.7962653 best: 2706.7962653 (84) total: 1.1s remaining: 1.49s
85: learn: 2693.3296788 test: 2699.1325932 best: 2699.1325932 (85) total: 1.12s remaining: 1.48s
86: learn: 2686.0732101 test: 2691.6025863 best: 2691.6025863 (86) total: 1.13s remaining: 1.47s
87: learn: 2679.3045905 test: 2684.5239532 best: 2684.5239532 (87) total: 1.14s remaining: 1.45s
88: learn: 2671.9513400 test: 2677.0678501 best: 2677.0678501 (88) total: 1.15s remaining: 1.44s
89: learn: 2664.9535353 test: 2669.8006064 best: 2669.8006064 (89) total: 1.17s remaining: 1.43s
90: learn: 2658.1723471 test: 2663.0861673 best: 2663.0861673 (90) total: 1.18s remaining: 1.41s
91: learn: 2651.9437553 test: 2656.5614277 best: 2656.5614277 (91) total: 1.19s remaining: 1.4s
92: learn: 2645.7482305 test: 2650.2457691 best: 2650.2457691 (92) total: 1.2s remaining: 1.39s
93: learn: 2640.0579160 test: 2644.6270098 best: 2644.6270098 (93) total: 1.22s remaining: 1.37s

94: learn: 2634.4358364 test: 2638.7585642 best: 2638.7585642 (94) total: 1.23s remaining: 1.36s
95: learn: 2628.7920352 test: 2632.9017119 best: 2632.9017119 (95) total: 1.24s remaining: 1.35s
96: learn: 2622.1062697 test: 2626.1065635 best: 2626.1065635 (96) total: 1.26s remaining: 1.33s
97: learn: 2616.4903900 test: 2620.3890161 best: 2620.3890161 (97) total: 1.27s remaining: 1.32s
98: learn: 2611.0773555 test: 2614.6715974 best: 2614.6715974 (98) total: 1.28s remaining: 1.31s
99: learn: 2603.5337394 test: 2607.0015131 best: 2607.0015131 (99) total: 1.29s remaining: 1.29s
100: learn: 2598.4459434 test: 2601.4396843 best: 2601.4396843 (100) total: 1.31s remaining: 1.28s
101: learn: 2593.0565175 test: 2595.8951566 best: 2595.8951566 (101) total: 1.32s remaining: 1.27s
102: learn: 2588.0124117 test: 2590.5690965 best: 2590.5690965 (102) total: 1.33s remaining: 1.26s
103: learn: 2582.9318853 test: 2585.4044657 best: 2585.4044657 (103) total: 1.35s remaining: 1.24s
104: learn: 2578.1374828 test: 2580.3958868 best: 2580.3958868 (104) total: 1.36s remaining: 1.23s
105: learn: 2573.4120667 test: 2575.5946067 best: 2575.5946067 (105) total: 1.37s remaining: 1.22s
106: learn: 2566.6135344 test: 2568.7202284 best: 2568.7202284 (106) total: 1.38s remaining: 1.2s
107: learn: 2561.4033190 test: 2563.5558206 best: 2563.5558206 (107) total: 1.4s remaining: 1.19s
108: learn: 2556.5035425 test: 2558.4728326 best: 2558.4728326 (108) total: 1.41s remaining: 1.18s
109: learn: 2550.1095710 test: 2551.9607482 best: 2551.9607482 (109) total: 1.42s remaining: 1.16s
110: learn: 2545.8352110 test: 2547.4058760 best: 2547.4058760 (110) total: 1.43s remaining: 1.15s
111: learn: 2541.1459541 test: 2542.8290995 best: 2542.8290995 (111) total: 1.44s remaining: 1.14s
112: learn: 2536.6354073 test: 2538.4104379 best: 2538.4104379 (112) total: 1.46s remaining: 1.12s
113: learn: 2532.3385201 test: 2533.7283576 best: 2533.7283576 (113) total: 1.47s remaining: 1.11s
114: learn: 2526.5042205 test: 2527.7819683 best: 2527.7819683 (114) total: 1.48s remaining: 1.09s
115: learn: 2522.4062047 test: 2523.7891641 best: 2523.7891641 (115) total: 1.49s remaining: 1.08s
116: learn: 2518.4477949 test: 2519.5677487 best: 2519.5677487 (116) total: 1.51s remaining: 1.07s
117: learn: 2512.9887311 test: 2513.9977852 best: 2513.9977852 (117) total: 1.52s remaining: 1.06s
118: learn: 2508.9737392 test: 2509.5633229 best: 2509.5633229 (118) total: 1.53s remaining: 1.04s
119: learn: 2505.1069093 test: 2505.5038757 best: 2505.5038757 (119) total: 1.54s remaining: 1.03s
120: learn: 2501.2154552 test: 2501.5692111 best: 2501.5692111 (120) total: 1.56s remaining: 1.02s
121: learn: 2497.5302221 test: 2497.5406902 best: 2497.5406902 (121) total: 1.57s remaining: 1s
122: learn: 2493.8911955 test: 2493.7493685 best: 2493.7493685 (122) total: 1.58s remaining: 990ms
123: learn: 2490.4239045 test: 2490.0827742 best: 2490.0827742 (123) total: 1.59s remaining: 977ms
124: learn: 2486.8590390 test: 2486.3178756 best: 2486.3178756 (124) total: 1.61s remaining: 967ms
125: learn: 2483.1994614 test: 2482.7383540 best: 2482.7383540 (125) total: 1.62s remaining: 953ms
126: learn: 2478.0394922 test: 2477.5157060 best: 2477.5157060 (126) total: 1.64s remaining: 940ms
127: learn: 2474.6787855 test: 2474.2391194 best: 2474.2391194 (127) total: 1.65s remaining: 927ms
128: learn: 2471.3303631 test: 2470.7636608 best: 2470.7636608 (128) total: 1.66s remaining: 914ms
129: learn: 2466.4679273 test: 2465.8386247 best: 2465.8386247 (129) total: 1.67s remaining: 901ms
130: learn: 2463.2875783 test: 2462.3595469 best: 2462.3595469 (130) total: 1.69s remaining: 888ms
131: learn: 2460.0526195 test: 2459.2158815 best: 2459.2158815 (131) total: 1.7s remaining: 875ms
132: learn: 2456.8075138 test: 2455.9923535 best: 2455.9923535 (132) total: 1.71s remaining: 863ms
133: learn: 2453.7711505 test: 2452.7432388 best: 2452.7432388 (133) total: 1.73s remaining: 850ms
134: learn: 2450.4680226 test: 2449.4951557 best: 2449.4951557 (134) total: 1.74s remaining: 837ms

135: learn: 2445.9164563 test: 2444.8838092 best: 2444.8838092 (135) total: 1.75s remaining: 824ms
136: learn: 2442.8850450 test: 2441.6248134 best: 2441.6248134 (136) total: 1.76s remaining: 810ms
137: learn: 2439.9434592 test: 2438.3924309 best: 2438.3924309 (137) total: 1.77s remaining: 797ms
138: learn: 2437.0265074 test: 2435.3020554 best: 2435.3020554 (138) total: 1.79s remaining: 785ms
139: learn: 2434.0980674 test: 2432.4631099 best: 2432.4631099 (139) total: 1.8s remaining: 774ms
140: learn: 2431.2307368 test: 2429.5243539 best: 2429.5243539 (140) total: 1.82s remaining: 761ms
141: learn: 2427.2422375 test: 2425.4296094 best: 2425.4296094 (141) total: 1.83s remaining: 747ms
142: learn: 2423.2131796 test: 2421.3005081 best: 2421.3005081 (142) total: 1.84s remaining: 734ms
143: learn: 2420.4672228 test: 2418.6410315 best: 2418.6410315 (143) total: 1.85s remaining: 721ms
144: learn: 2417.9063771 test: 2416.1634633 best: 2416.1634633 (144) total: 1.87s remaining: 708ms
145: learn: 2415.0808643 test: 2413.3712234 best: 2413.3712234 (145) total: 1.88s remaining: 695ms
146: learn: 2412.4193050 test: 2410.7434539 best: 2410.7434539 (146) total: 1.89s remaining: 682ms
147: learn: 2408.5237199 test: 2406.7294735 best: 2406.7294735 (147) total: 1.91s remaining: 669ms
148: learn: 2405.9889754 test: 2403.8922592 best: 2403.8922592 (148) total: 1.92s remaining: 656ms
149: learn: 2402.3036657 test: 2400.1392681 best: 2400.1392681 (149) total: 1.93s remaining: 643ms
150: learn: 2399.8427745 test: 2397.7340859 best: 2397.7340859 (150) total: 1.94s remaining: 630ms
151: learn: 2396.1103334 test: 2393.9441649 best: 2393.9441649 (151) total: 1.95s remaining: 617ms
152: learn: 2393.2904563 test: 2391.0013592 best: 2391.0013592 (152) total: 1.97s remaining: 605ms
153: learn: 2390.8021512 test: 2388.2757485 best: 2388.2757485 (153) total: 1.98s remaining: 592ms
154: learn: 2388.2683285 test: 2385.5196317 best: 2385.5196317 (154) total: 1.99s remaining: 579ms
155: learn: 2385.8923235 test: 2383.0870646 best: 2383.0870646 (155) total: 2.01s remaining: 567ms
156: learn: 2383.4969738 test: 2380.7709611 best: 2380.7709611 (156) total: 2.02s remaining: 554ms
157: learn: 2381.2140773 test: 2378.3022207 best: 2378.3022207 (157) total: 2.04s remaining: 541ms
158: learn: 2377.7006053 test: 2374.6965166 best: 2374.6965166 (158) total: 2.05s remaining: 528ms
159: learn: 2375.3789023 test: 2372.2510210 best: 2372.2510210 (159) total: 2.06s remaining: 515ms
160: learn: 2373.0346676 test: 2369.6275296 best: 2369.6275296 (160) total: 2.07s remaining: 502ms
161: learn: 2370.8091438 test: 2367.4374700 best: 2367.4374700 (161) total: 2.08s remaining: 489ms
162: learn: 2367.5718692 test: 2364.1010881 best: 2364.1010881 (162) total: 2.1s remaining: 476ms
163: learn: 2365.3742810 test: 2361.8037564 best: 2361.8037564 (163) total: 2.11s remaining: 463ms
164: learn: 2362.2221512 test: 2358.5927172 best: 2358.5927172 (164) total: 2.12s remaining: 450ms
165: learn: 2360.0412919 test: 2356.4517324 best: 2356.4517324 (165) total: 2.13s remaining: 437ms
166: learn: 2357.9314436 test: 2354.4571851 best: 2354.4571851 (166) total: 2.15s remaining: 424ms
167: learn: 2355.8616364 test: 2352.2853684 best: 2352.2853684 (167) total: 2.16s remaining: 411ms
168: learn: 2353.2234432 test: 2349.5655671 best: 2349.5655671 (168) total: 2.17s remaining: 398ms
169: learn: 2351.1849559 test: 2347.5688049 best: 2347.5688049 (169) total: 2.18s remaining: 386ms
170: learn: 2349.1639796 test: 2345.2607352 best: 2345.2607352 (170) total: 2.2s remaining: 373ms
171: learn: 2347.1219607 test: 2343.2811438 best: 2343.2811438 (171) total: 2.21s remaining: 360ms
172: learn: 2344.1182119 test: 2340.1927287 best: 2340.1927287 (172) total: 2.23s remaining: 347ms
173: learn: 2342.0435585 test: 2338.0135405 best: 2338.0135405 (173) total: 2.24s remaining: 334ms
174: learn: 2340.1804310 test: 2336.1743035 best: 2336.1743035 (174) total: 2.25s remaining: 322ms
175: learn: 2338.1410341 test: 2333.7772632 best: 2333.7772632 (175) total: 2.26s remaining: 309ms

176: learn: 2335.3309795 test: 2330.8838450 best: 2330.8838450 (176) total: 2.28s remaining: 296ms
177: learn: 2333.4341369 test: 2329.0590899 best: 2329.0590899 (177) total: 2.29s remaining: 283ms
178: learn: 2330.6773484 test: 2326.2071189 best: 2326.2071189 (178) total: 2.3s remaining: 270ms
179: learn: 2328.8088847 test: 2324.2973190 best: 2324.2973190 (179) total: 2.31s remaining: 257ms
180: learn: 2327.0486083 test: 2322.3296493 best: 2322.3296493 (180) total: 2.33s remaining: 244ms
181: learn: 2325.2157999 test: 2320.5730812 best: 2320.5730812 (181) total: 2.34s remaining: 231ms
182: learn: 2323.3814953 test: 2318.7847116 best: 2318.7847116 (182) total: 2.35s remaining: 219ms
183: learn: 2321.3672481 test: 2316.4226970 best: 2316.4226970 (183) total: 2.36s remaining: 206ms
184: learn: 2319.7209229 test: 2314.8145208 best: 2314.8145208 (184) total: 2.38s remaining: 193ms
185: learn: 2317.1176535 test: 2312.1181303 best: 2312.1181303 (185) total: 2.39s remaining: 180ms
186: learn: 2315.3690958 test: 2310.2942038 best: 2310.2942038 (186) total: 2.4s remaining: 167ms
187: learn: 2313.4873647 test: 2308.4213614 best: 2308.4213614 (187) total: 2.42s remaining: 154ms
188: learn: 2311.7702805 test: 2306.5464551 best: 2306.5464551 (188) total: 2.43s remaining: 141ms
189: learn: 2310.1150710 test: 2304.7646407 best: 2304.7646407 (189) total: 2.44s remaining: 128ms
190: learn: 2308.3673184 test: 2303.0774017 best: 2303.0774017 (190) total: 2.45s remaining: 116ms
191: learn: 2306.7333142 test: 2301.3300588 best: 2301.3300588 (191) total: 2.47s remaining: 103ms
192: learn: 2305.1311718 test: 2299.7747901 best: 2299.7747901 (192) total: 2.48s remaining: 89.9ms
193: learn: 2303.4749137 test: 2297.9980419 best: 2297.9980419 (193) total: 2.49s remaining: 77.1ms
194: learn: 2301.0453438 test: 2295.4512369 best: 2295.4512369 (194) total: 2.5s remaining: 64.2ms
195: learn: 2298.5593542 test: 2292.9128597 best: 2292.9128597 (195) total: 2.52s remaining: 51.4ms
196: learn: 2297.0148200 test: 2291.5109369 best: 2291.5109369 (196) total: 2.53s remaining: 38.5ms
197: learn: 2294.6720408 test: 2289.1161111 best: 2289.1161111 (197) total: 2.54s remaining: 25.7ms
198: learn: 2293.1513634 test: 2287.4928143 best: 2287.4928143 (198) total: 2.55s remaining: 12.8ms
199: learn: 2291.6694421 test: 2286.1059020 best: 2286.1059020 (199) total: 2.56s remaining: 0us

bestTest = 2286.105902

bestIteration = 199

18: loss: 2286.1059020 best: 1989.0332758 (17) total: 36s remaining: 2m 25s
0: learn: 6448.8537650 test: 6477.8242313 best: 6477.8242313 (0) total: 17.7ms remaining: 3.51s
1: learn: 5970.9141790 test: 5999.9421404 best: 5999.9421404 (1) total: 30.9ms remaining: 3.06s
2: learn: 5555.1597112 test: 5583.5301203 best: 5583.5301203 (2) total: 43.5ms remaining: 2.85s
3: learn: 5181.2030648 test: 5210.8247718 best: 5210.8247718 (3) total: 55.5ms remaining: 2.72s
4: learn: 4854.4209330 test: 4885.0855810 best: 4885.0855810 (4) total: 69.4ms remaining: 2.71s
5: learn: 4567.4985492 test: 4597.2415691 best: 4597.2415691 (5) total: 82ms remaining: 2.65s
6: learn: 4324.0498111 test: 4352.8819612 best: 4352.8819612 (6) total: 97.5ms remaining: 2.69s
7: learn: 4104.7082264 test: 4131.8530519 best: 4131.8530519 (7) total: 112ms remaining: 2.68s
8: learn: 3917.1973343 test: 3943.2864195 best: 3943.2864195 (8) total: 126ms remaining: 2.67s
9: learn: 3748.6668080 test: 3774.5898411 best: 3774.5898411 (9) total: 138ms remaining: 2.61s
10: learn: 3605.2284403 test: 3629.5505324 best: 3629.5505324 (10) total: 153ms remaining: 2.62s
11: learn: 3476.4269165 test: 3500.3938176 best: 3500.3938176 (11) total: 166ms remaining: 2.6s
12: learn: 3370.2091758 test: 3392.7049798 best: 3392.7049798 (12) total: 180ms remaining: 2.59s

12: learn: 3370.2051738 test: 3392.7045758 best: 3392.7045758 (12) total: 100ms remaining: 2.59s
13: learn: 3264.2539441 test: 3284.5464217 best: 3284.5464217 (13) total: 192ms remaining: 2.56s
14: learn: 3174.1758941 test: 3192.4902468 best: 3192.4902468 (14) total: 205ms remaining: 2.53s
15: learn: 3100.6339145 test: 3117.6564989 best: 3117.6564989 (15) total: 224ms remaining: 2.58s
16: learn: 3028.0278253 test: 3043.7706808 best: 3043.7706808 (16) total: 237ms remaining: 2.55s
17: learn: 2968.0427276 test: 2982.1332850 best: 2982.1332850 (17) total: 249ms remaining: 2.52s
18: learn: 2912.5931617 test: 2926.2000904 best: 2926.2000904 (18) total: 262ms remaining: 2.5s
19: learn: 2867.6966586 test: 2879.7114966 best: 2879.7114966 (19) total: 276ms remaining: 2.48s
20: learn: 2822.7514021 test: 2833.7866075 best: 2833.7866075 (20) total: 291ms remaining: 2.48s
21: learn: 2786.4952852 test: 2796.6259743 best: 2796.6259743 (21) total: 304ms remaining: 2.46s
22: learn: 2752.7712758 test: 2761.3670084 best: 2761.3670084 (22) total: 320ms remaining: 2.46s
23: learn: 2725.2498560 test: 2732.6718569 best: 2732.6718569 (23) total: 336ms remaining: 2.46s
24: learn: 2699.6107030 test: 2706.2377956 best: 2706.2377956 (24) total: 353ms remaining: 2.47s
25: learn: 2676.8010677 test: 2682.3590195 best: 2682.3590195 (25) total: 367ms remaining: 2.45s
26: learn: 2655.0097608 test: 2659.0019389 best: 2659.0019389 (26) total: 381ms remaining: 2.44s
27: learn: 2635.0426709 test: 2638.6435979 best: 2638.6435979 (27) total: 395ms remaining: 2.42s
28: learn: 2608.4304269 test: 2611.5592289 best: 2611.5592289 (28) total: 414ms remaining: 2.44s
29: learn: 2588.9023707 test: 2592.1744786 best: 2592.1744786 (29) total: 429ms remaining: 2.43s
30: learn: 2573.3901394 test: 2575.5826760 best: 2575.5826760 (30) total: 444ms remaining: 2.42s
31: learn: 2558.0292824 test: 2559.6015610 best: 2559.6015610 (31) total: 457ms remaining: 2.4s
32: learn: 2542.8713628 test: 2544.6092752 best: 2544.6092752 (32) total: 471ms remaining: 2.38s
33: learn: 2529.2049546 test: 2530.7613050 best: 2530.7613050 (33) total: 483ms remaining: 2.36s
34: learn: 2510.3868261 test: 2511.5194890 best: 2511.5194890 (34) total: 495ms remaining: 2.33s
35: learn: 2498.3153889 test: 2498.8946450 best: 2498.8946450 (35) total: 508ms remaining: 2.31s
36: learn: 2486.0073005 test: 2485.4720024 best: 2485.4720024 (36) total: 522ms remaining: 2.3s
37: learn: 2474.5101531 test: 2474.2461165 best: 2474.2461165 (37) total: 534ms remaining: 2.28s
38: learn: 2464.0130868 test: 2463.4622331 best: 2463.4622331 (38) total: 547ms remaining: 2.26s
39: learn: 2454.0016590 test: 2453.0970027 best: 2453.0970027 (39) total: 560ms remaining: 2.24s
40: learn: 2443.7860493 test: 2441.7710894 best: 2441.7710894 (40) total: 573ms remaining: 2.22s
41: learn: 2428.8337831 test: 2426.6194504 best: 2426.6194504 (41) total: 586ms remaining: 2.2s
42: learn: 2419.4343341 test: 2417.6445753 best: 2417.6445753 (42) total: 599ms remaining: 2.19s
43: learn: 2410.8373225 test: 2409.3083223 best: 2409.3083223 (43) total: 616ms remaining: 2.18s
44: learn: 2398.7065829 test: 2396.8491270 best: 2396.8491270 (44) total: 630ms remaining: 2.17s
45: learn: 2390.1553170 test: 2388.2827684 best: 2388.2827684 (45) total: 643ms remaining: 2.15s
46: learn: 2381.9139000 test: 2379.5243016 best: 2379.5243016 (46) total: 656ms remaining: 2.14s
47: learn: 2373.4918859 test: 2370.6078223 best: 2370.6078223 (47) total: 669ms remaining: 2.12s
48: learn: 2366.3315941 test: 2362.4356188 best: 2362.4356188 (48) total: 683ms remaining: 2.1s
49: learn: 2359.2350920 test: 2355.0527812 best: 2355.0527812 (49) total: 695ms remaining: 2.08s
50: learn: 2348.8985309 test: 2344.5242385 best: 2344.5242385 (50) total: 710ms remaining: 2.07s
51: learn: 2342.6410974 test: 2338.5918965 best: 2338.5918965 (51) total: 722ms remaining: 2.06s
52: learn: 2336.4741234 test: 2332.1633611 best: 2332.1633611 (52) total: 735ms remaining: 2.04s
53: learn: 2330.5277721 test: 2326.3679459 best: 2326.3679459 (53) total: 747ms remaining: 2.02s

54: learn: 2325.0720967 test: 2321.1320861 best: 2321.1320861 (54) total: 759ms remaining: 2s
55: learn: 2316.7907508 test: 2312.5616434 best: 2312.5616434 (55) total: 771ms remaining: 1.98s
56: learn: 2311.1511691 test: 2306.6568054 best: 2306.6568054 (56) total: 784ms remaining: 1.97s
57: learn: 2305.9232715 test: 2301.0551509 best: 2301.0551509 (57) total: 797ms remaining: 1.95s
58: learn: 2297.2724341 test: 2292.2299719 best: 2292.2299719 (58) total: 813ms remaining: 1.94s
59: learn: 2292.7086728 test: 2287.5559769 best: 2287.5559769 (59) total: 826ms remaining: 1.93s
60: learn: 2287.7846602 test: 2282.9123268 best: 2282.9123268 (60) total: 838ms remaining: 1.91s
61: learn: 2282.5256787 test: 2277.4055160 best: 2277.4055160 (61) total: 851ms remaining: 1.89s
62: learn: 2276.8136162 test: 2270.7709502 best: 2270.7709502 (62) total: 863ms remaining: 1.88s
63: learn: 2271.0691145 test: 2264.9531355 best: 2264.9531355 (63) total: 875ms remaining: 1.86s
64: learn: 2264.6228734 test: 2258.3461416 best: 2258.3461416 (64) total: 887ms remaining: 1.84s
65: learn: 2260.2326146 test: 2254.0959727 best: 2254.0959727 (65) total: 901ms remaining: 1.83s
66: learn: 2256.1309175 test: 2250.3148329 best: 2250.3148329 (66) total: 914ms remaining: 1.81s
67: learn: 2251.9394340 test: 2245.5663245 best: 2245.5663245 (67) total: 926ms remaining: 1.8s
68: learn: 2246.7618258 test: 2240.0010322 best: 2240.0010322 (68) total: 937ms remaining: 1.78s
69: learn: 2242.7037001 test: 2235.7960116 best: 2235.7960116 (69) total: 949ms remaining: 1.76s
70: learn: 2239.1371086 test: 2232.3238462 best: 2232.3238462 (70) total: 961ms remaining: 1.75s
71: learn: 2233.6132481 test: 2226.5431434 best: 2226.5431434 (71) total: 974ms remaining: 1.73s
72: learn: 2230.1893622 test: 2223.3541013 best: 2223.3541013 (72) total: 986ms remaining: 1.72s
73: learn: 2225.1927541 test: 2218.0098739 best: 2218.0098739 (73) total: 999ms remaining: 1.7s
74: learn: 2220.2603545 test: 2212.8489126 best: 2212.8489126 (74) total: 1.01s remaining: 1.69s
75: learn: 2216.0318456 test: 2208.8102099 best: 2208.8102099 (75) total: 1.03s remaining: 1.68s
76: learn: 2212.0151909 test: 2205.0119957 best: 2205.0119957 (76) total: 1.04s remaining: 1.66s
77: learn: 2208.7772003 test: 2201.9514790 best: 2201.9514790 (77) total: 1.05s remaining: 1.65s
78: learn: 2204.2917912 test: 2197.2333185 best: 2197.2333185 (78) total: 1.06s remaining: 1.63s
79: learn: 2200.0116645 test: 2192.6383401 best: 2192.6383401 (79) total: 1.08s remaining: 1.61s
80: learn: 2197.0304960 test: 2189.1822947 best: 2189.1822947 (80) total: 1.09s remaining: 1.6s
81: learn: 2192.7296552 test: 2184.7599346 best: 2184.7599346 (81) total: 1.1s remaining: 1.58s
82: learn: 2190.1062175 test: 2182.2074072 best: 2182.2074072 (82) total: 1.11s remaining: 1.57s
83: learn: 2186.8654004 test: 2178.8022895 best: 2178.8022895 (83) total: 1.13s remaining: 1.56s
84: learn: 2183.1665145 test: 2174.9281725 best: 2174.9281725 (84) total: 1.14s remaining: 1.54s
85: learn: 2180.1391704 test: 2172.1792510 best: 2172.1792510 (85) total: 1.15s remaining: 1.53s
86: learn: 2177.3065032 test: 2169.4633315 best: 2169.4633315 (86) total: 1.16s remaining: 1.51s
87: learn: 2174.2133575 test: 2166.3350880 best: 2166.3350880 (87) total: 1.18s remaining: 1.5s
88: learn: 2171.4038727 test: 2163.6146697 best: 2163.6146697 (88) total: 1.19s remaining: 1.48s
89: learn: 2168.9426334 test: 2160.9819573 best: 2160.9819573 (89) total: 1.21s remaining: 1.48s
90: learn: 2165.7497373 test: 2157.6101073 best: 2157.6101073 (90) total: 1.22s remaining: 1.46s
91: learn: 2163.3270176 test: 2155.5572743 best: 2155.5572743 (91) total: 1.24s remaining: 1.45s
92: learn: 2159.4658777 test: 2151.6136959 best: 2151.6136959 (92) total: 1.25s remaining: 1.43s
93: learn: 2156.1755000 test: 2148.0558708 best: 2148.0558708 (93) total: 1.26s remaining: 1.42s
94: learn: 2153.2349646 test: 2145.2731511 best: 2145.2731511 (94) total: 1.27s remaining: 1.41s

95: learn: 2150.7289007 test: 2142.7166928 best: 2142.7166928 (95) total: 1.28s remaining: 1.39s
96: learn: 2146.6514988 test: 2138.4010798 best: 2138.4010798 (96) total: 1.3s remaining: 1.38s
97: learn: 2143.9659357 test: 2135.9216152 best: 2135.9216152 (97) total: 1.31s remaining: 1.36s
98: learn: 2141.6398546 test: 2133.8806672 best: 2133.8806672 (98) total: 1.32s remaining: 1.35s
99: learn: 2139.0210045 test: 2131.2171361 best: 2131.2171361 (99) total: 1.34s remaining: 1.34s
100: learn: 2136.4652389 test: 2128.8591243 best: 2128.8591243 (100) total: 1.35s remaining: 1.32s
101: learn: 2133.7478838 test: 2126.1272281 best: 2126.1272281 (101) total: 1.36s remaining: 1.31s
102: learn: 2131.6046964 test: 2123.8785528 best: 2123.8785528 (102) total: 1.37s remaining: 1.29s
103: learn: 2129.5663446 test: 2121.5619864 best: 2121.5619864 (103) total: 1.39s remaining: 1.28s
104: learn: 2126.4196805 test: 2118.4815059 best: 2118.4815059 (104) total: 1.4s remaining: 1.27s
105: learn: 2124.3561564 test: 2116.5565372 best: 2116.5565372 (105) total: 1.42s remaining: 1.25s
106: learn: 2122.4472387 test: 2114.7115809 best: 2114.7115809 (106) total: 1.43s remaining: 1.24s
107: learn: 2119.6855576 test: 2111.7204210 best: 2111.7204210 (107) total: 1.45s remaining: 1.23s
108: learn: 2116.6152113 test: 2108.6841810 best: 2108.6841810 (108) total: 1.46s remaining: 1.22s
109: learn: 2114.7013521 test: 2106.9191441 best: 2106.9191441 (109) total: 1.47s remaining: 1.2s
110: learn: 2112.9336988 test: 2105.3816721 best: 2105.3816721 (110) total: 1.48s remaining: 1.19s
111: learn: 2109.9692940 test: 2102.2920405 best: 2102.2920405 (111) total: 1.49s remaining: 1.17s
112: learn: 2108.0387859 test: 2100.3141799 best: 2100.3141799 (112) total: 1.51s remaining: 1.16s
113: learn: 2106.3157034 test: 2098.6894014 best: 2098.6894014 (113) total: 1.52s remaining: 1.15s
114: learn: 2103.8017157 test: 2095.9669569 best: 2095.9669569 (114) total: 1.53s remaining: 1.13s
115: learn: 2101.9711117 test: 2094.3239011 best: 2094.3239011 (115) total: 1.54s remaining: 1.12s
116: learn: 2099.8540265 test: 2092.1687352 best: 2092.1687352 (116) total: 1.56s remaining: 1.1s
117: learn: 2097.8504234 test: 2090.4367187 best: 2090.4367187 (117) total: 1.57s remaining: 1.09s
118: learn: 2096.2067675 test: 2088.8521436 best: 2088.8521436 (118) total: 1.58s remaining: 1.07s
119: learn: 2093.7352950 test: 2086.4391333 best: 2086.4391333 (119) total: 1.59s remaining: 1.06s
120: learn: 2092.2241307 test: 2085.1948202 best: 2085.1948202 (120) total: 1.61s remaining: 1.05s
121: learn: 2090.6056698 test: 2083.3783702 best: 2083.3783702 (121) total: 1.62s remaining: 1.03s
122: learn: 2089.0782729 test: 2081.9924496 best: 2081.9924496 (122) total: 1.63s remaining: 1.02s
123: learn: 2086.8185817 test: 2079.5405577 best: 2079.5405577 (123) total: 1.65s remaining: 1.01s
124: learn: 2085.3836707 test: 2078.4414207 best: 2078.4414207 (124) total: 1.66s remaining: 995ms
125: learn: 2082.8882521 test: 2075.9786848 best: 2075.9786848 (125) total: 1.67s remaining: 981ms
126: learn: 2080.8620747 test: 2073.9995722 best: 2073.9995722 (126) total: 1.68s remaining: 967ms
127: learn: 2079.3184170 test: 2072.5567764 best: 2072.5567764 (127) total: 1.7s remaining: 956ms
128: learn: 2077.8846242 test: 2071.2756737 best: 2071.2756737 (128) total: 1.71s remaining: 942ms
129: learn: 2076.5752248 test: 2069.8496395 best: 2069.8496395 (129) total: 1.72s remaining: 928ms
130: learn: 2074.4187766 test: 2067.5102568 best: 2067.5102568 (130) total: 1.74s remaining: 914ms
131: learn: 2073.0567734 test: 2066.3599114 best: 2066.3599114 (131) total: 1.75s remaining: 900ms
132: learn: 2070.6888169 test: 2063.7816957 best: 2063.7816957 (132) total: 1.76s remaining: 887ms
133: learn: 2068.7089204 test: 2061.6280813 best: 2061.6280813 (133) total: 1.77s remaining: 873ms
134: learn: 2067.2916954 test: 2060.0568965 best: 2060.0568965 (134) total: 1.78s remaining: 859ms
135: learn: 2065.9327798 test: 2058.5988419 best: 2058.5988419 (135) total: 1.8s remaining: 847ms

136: learn: 2064.4895743 test: 2057.1537443 best: 2057.1537443 (136) total: 1.81s remaining: 833ms
137: learn: 2063.1765822 test: 2055.9467173 best: 2055.9467173 (137) total: 1.82s remaining: 820ms
138: learn: 2061.9797137 test: 2054.8033659 best: 2054.8033659 (138) total: 1.83s remaining: 805ms
139: learn: 2060.0603917 test: 2052.7948825 best: 2052.7948825 (139) total: 1.85s remaining: 792ms
140: learn: 2058.2415601 test: 2050.6570814 best: 2050.6570814 (140) total: 1.86s remaining: 778ms
141: learn: 2056.7094041 test: 2049.4172912 best: 2049.4172912 (141) total: 1.87s remaining: 764ms
142: learn: 2055.3942492 test: 2047.9162169 best: 2047.9162169 (142) total: 1.88s remaining: 751ms
143: learn: 2054.2210916 test: 2046.8045308 best: 2046.8045308 (143) total: 1.9s remaining: 738ms
144: learn: 2052.8572179 test: 2045.6034878 best: 2045.6034878 (144) total: 1.91s remaining: 725ms
145: learn: 2051.2487765 test: 2043.9901278 best: 2043.9901278 (145) total: 1.92s remaining: 711ms
146: learn: 2050.0638352 test: 2042.8528811 best: 2042.8528811 (146) total: 1.93s remaining: 697ms
147: learn: 2048.9780579 test: 2041.6568011 best: 2041.6568011 (147) total: 1.95s remaining: 684ms
148: learn: 2047.5116244 test: 2040.1000208 best: 2040.1000208 (148) total: 1.96s remaining: 670ms
149: learn: 2046.4965686 test: 2038.7594661 best: 2038.7594661 (149) total: 1.97s remaining: 657ms
150: learn: 2044.8614568 test: 2037.0658094 best: 2037.0658094 (150) total: 1.98s remaining: 643ms
151: learn: 2043.8195039 test: 2036.3212188 best: 2036.3212188 (151) total: 2s remaining: 631ms
152: learn: 2042.2023676 test: 2034.5606545 best: 2034.5606545 (152) total: 2.02s remaining: 620ms
153: learn: 2041.1108144 test: 2033.5509791 best: 2033.5509791 (153) total: 2.04s remaining: 608ms
154: learn: 2039.9868944 test: 2032.4559475 best: 2032.4559475 (154) total: 2.05s remaining: 596ms
155: learn: 2038.9574180 test: 2031.6173754 best: 2031.6173754 (155) total: 2.07s remaining: 584ms
156: learn: 2037.7850097 test: 2030.4390985 best: 2030.4390985 (156) total: 2.1s remaining: 574ms
157: learn: 2036.8231665 test: 2029.6064838 best: 2029.6064838 (157) total: 2.11s remaining: 562ms
158: learn: 2035.5944388 test: 2028.5619819 best: 2028.5619819 (158) total: 2.13s remaining: 549ms
159: learn: 2034.2628952 test: 2027.2697378 best: 2027.2697378 (159) total: 2.15s remaining: 537ms
160: learn: 2032.9110774 test: 2025.8794599 best: 2025.8794599 (160) total: 2.17s remaining: 526ms
161: learn: 2031.2639260 test: 2024.0475387 best: 2024.0475387 (161) total: 2.19s remaining: 513ms
162: learn: 2030.3381689 test: 2023.1384450 best: 2023.1384450 (162) total: 2.2s remaining: 500ms
163: learn: 2029.4270519 test: 2022.2322719 best: 2022.2322719 (163) total: 2.22s remaining: 488ms
164: learn: 2028.0045665 test: 2020.7794219 best: 2020.7794219 (164) total: 2.24s remaining: 476ms
165: learn: 2026.8689768 test: 2019.5264961 best: 2019.5264961 (165) total: 2.26s remaining: 463ms
166: learn: 2025.4588729 test: 2017.9652215 best: 2017.9652215 (166) total: 2.28s remaining: 451ms
167: learn: 2024.6111412 test: 2017.4192130 best: 2017.4192130 (167) total: 2.3s remaining: 438ms
168: learn: 2022.5867645 test: 2015.4447595 best: 2015.4447595 (168) total: 2.32s remaining: 425ms
169: learn: 2021.7259327 test: 2014.7058453 best: 2014.7058453 (169) total: 2.33s remaining: 412ms
170: learn: 2020.9279718 test: 2013.9923348 best: 2013.9923348 (170) total: 2.35s remaining: 398ms
171: learn: 2020.0172823 test: 2013.0833466 best: 2013.0833466 (171) total: 2.36s remaining: 384ms
172: learn: 2018.5282397 test: 2011.4204046 best: 2011.4204046 (172) total: 2.37s remaining: 370ms
173: learn: 2017.3673214 test: 2010.3948629 best: 2010.3948629 (173) total: 2.38s remaining: 356ms
174: learn: 2016.3704681 test: 2009.3711649 best: 2009.3711649 (174) total: 2.4s remaining: 343ms
175: learn: 2015.5864450 test: 2008.6750222 best: 2008.6750222 (175) total: 2.41s remaining: 329ms
176: learn: 2014.3130701 test: 2007.3711737 best: 2007.3711737 (176) total: 2.42s remaining: 315ms
177: learn: 2012.9640371 test: 2005.8817273 best: 2005.8817273 (177) total: 2.44s remaining: 301ms

178: learn: 2012.2058327 test: 2005.2578388 best: 2005.2578388 (178) total: 2.45s remaining: 288ms
179: learn: 2011.1526487 test: 2004.0985382 best: 2004.0985382 (179) total: 2.46s remaining: 274ms
180: learn: 2010.1937146 test: 2003.2985107 best: 2003.2985107 (180) total: 2.47s remaining: 260ms
181: learn: 2008.8686780 test: 2002.0152362 best: 2002.0152362 (181) total: 2.49s remaining: 246ms
182: learn: 2008.1302787 test: 2001.2487886 best: 2001.2487886 (182) total: 2.5s remaining: 233ms
183: learn: 2007.3414141 test: 2000.5624367 best: 2000.5624367 (183) total: 2.52s remaining: 219ms
184: learn: 2006.5938072 test: 1999.8157820 best: 1999.8157820 (184) total: 2.53s remaining: 205ms
185: learn: 2005.2356685 test: 1998.5769482 best: 1998.5769482 (185) total: 2.54s remaining: 191ms
186: learn: 2004.5082276 test: 1997.9401727 best: 1997.9401727 (186) total: 2.55s remaining: 178ms
187: learn: 2003.7387015 test: 1997.2408722 best: 1997.2408722 (187) total: 2.57s remaining: 164ms
188: learn: 2002.6302998 test: 1996.0823073 best: 1996.0823073 (188) total: 2.58s remaining: 150ms
189: learn: 2001.8921603 test: 1995.3440371 best: 1995.3440371 (189) total: 2.59s remaining: 136ms
190: learn: 2001.1249290 test: 1994.5118592 best: 1994.5118592 (190) total: 2.6s remaining: 123ms
191: learn: 2000.4474820 test: 1993.8535221 best: 1993.8535221 (191) total: 2.62s remaining: 109ms
192: learn: 1999.7882626 test: 1993.2638189 best: 1993.2638189 (192) total: 2.63s remaining: 95.3ms
193: learn: 1998.6901590 test: 1992.1554689 best: 1992.1554689 (193) total: 2.64s remaining: 81.7ms
194: learn: 1998.0290128 test: 1991.9550704 best: 1991.9550704 (194) total: 2.65s remaining: 68ms
195: learn: 1996.3420742 test: 1990.3250908 best: 1990.3250908 (195) total: 2.66s remaining: 54.4ms
196: learn: 1994.1840256 test: 1988.1628491 best: 1988.1628491 (196) total: 2.68s remaining: 40.8ms
197: learn: 1993.5756112 test: 1987.4789853 best: 1987.4789853 (197) total: 2.69s remaining: 27.2ms
198: learn: 1992.8482660 test: 1986.7879137 best: 1986.7879137 (198) total: 2.71s remaining: 13.6ms
199: learn: 1991.8825579 test: 1985.7465399 best: 1985.7465399 (199) total: 2.72s remaining: 0us

bestTest = 1985.74654

bestIteration = 199

19: loss: 1985.7465399 best: 1985.7465399 (19) total: 38.8s remaining: 2m 27s
0: learn: 6820.7440526 test: 6849.0986708 best: 6849.0986708 (0) total: 13.5ms remaining: 2.69s
1: learn: 6663.6642484 test: 6692.2351813 best: 6692.2351813 (1) total: 25.9ms remaining: 2.56s
2: learn: 6512.0023182 test: 6540.7045310 best: 6540.7045310 (2) total: 38.8ms remaining: 2.55s
3: learn: 6366.0200893 test: 6395.0055944 best: 6395.0055944 (3) total: 51.5ms remaining: 2.52s
4: learn: 6224.2624048 test: 6253.5854171 best: 6253.5854171 (4) total: 64.8ms remaining: 2.53s
5: learn: 6088.8962335 test: 6118.2759693 best: 6118.2759693 (5) total: 77ms remaining: 2.49s
6: learn: 5958.6533209 test: 5988.1445280 best: 5988.1445280 (6) total: 89.6ms remaining: 2.47s
7: learn: 5833.1201195 test: 5862.3963790 best: 5862.3963790 (7) total: 102ms remaining: 2.45s
8: learn: 5710.0854409 test: 5739.7755508 best: 5739.7755508 (8) total: 115ms remaining: 2.44s
9: learn: 5591.8504017 test: 5621.9241786 best: 5621.9241786 (9) total: 128ms remaining: 2.43s
10: learn: 5478.4145890 test: 5508.8983579 best: 5508.8983579 (10) total: 140ms remaining: 2.41s
11: learn: 5369.4425761 test: 5400.1013069 best: 5400.1013069 (11) total: 157ms remaining: 2.45s
12: learn: 5264.7032887 test: 5295.7118032 best: 5295.7118032 (12) total: 169ms remaining: 2.43s
13: learn: 5163.8974715 test: 5194.8041115 best: 5194.8041115 (13) total: 182ms remaining: 2.41s

14: learn: 5065.1243456 test: 5095.6573645 best: 5095.6573645 (14) total: 194ms remaining: 2.39s
15: learn: 4971.6530299 test: 5002.0700604 best: 5002.0700604 (15) total: 207ms remaining: 2.38s
16: learn: 4882.1201518 test: 4912.5478196 best: 4912.5478196 (16) total: 220ms remaining: 2.37s
17: learn: 4794.7148428 test: 4825.2900412 best: 4825.2900412 (17) total: 232ms remaining: 2.35s
18: learn: 4711.4277054 test: 4741.6887190 best: 4741.6887190 (18) total: 245ms remaining: 2.34s
19: learn: 4630.3209759 test: 4660.2165767 best: 4660.2165767 (19) total: 259ms remaining: 2.33s
20: learn: 4553.4687273 test: 4583.3045238 best: 4583.3045238 (20) total: 272ms remaining: 2.32s
21: learn: 4479.7470879 test: 4509.3135712 best: 4509.3135712 (21) total: 285ms remaining: 2.31s
22: learn: 4407.2110327 test: 4436.6657420 best: 4436.6657420 (22) total: 298ms remaining: 2.29s
23: learn: 4336.8476236 test: 4365.8373908 best: 4365.8373908 (23) total: 311ms remaining: 2.28s
24: learn: 4269.2015251 test: 4297.7442105 best: 4297.7442105 (24) total: 323ms remaining: 2.26s
25: learn: 4204.0441805 test: 4232.1716796 best: 4232.1716796 (25) total: 336ms remaining: 2.25s
26: learn: 4143.5119537 test: 4171.3513482 best: 4171.3513482 (26) total: 348ms remaining: 2.23s
27: learn: 4083.3301481 test: 4110.8585949 best: 4110.8585949 (27) total: 365ms remaining: 2.24s
28: learn: 4025.9010598 test: 4052.9445974 best: 4052.9445974 (28) total: 377ms remaining: 2.23s
29: learn: 3971.4687672 test: 3997.9968060 best: 3997.9968060 (29) total: 390ms remaining: 2.21s
30: learn: 3920.0999747 test: 3946.1706159 best: 3946.1706159 (30) total: 405ms remaining: 2.21s
31: learn: 3870.1792045 test: 3896.0487867 best: 3896.0487867 (31) total: 417ms remaining: 2.19s
32: learn: 3823.3226027 test: 3848.7680290 best: 3848.7680290 (32) total: 430ms remaining: 2.18s
33: learn: 3775.5823838 test: 3800.6574857 best: 3800.6574857 (33) total: 444ms remaining: 2.17s
34: learn: 3729.2739325 test: 3754.0249045 best: 3754.0249045 (34) total: 460ms remaining: 2.17s
35: learn: 3687.6345539 test: 3712.0445572 best: 3712.0445572 (35) total: 474ms remaining: 2.16s
36: learn: 3645.5031611 test: 3669.4565709 best: 3669.4565709 (36) total: 487ms remaining: 2.14s
37: learn: 3605.0939022 test: 3628.9751527 best: 3628.9751527 (37) total: 500ms remaining: 2.13s
38: learn: 3566.7095631 test: 3590.3014739 best: 3590.3014739 (38) total: 513ms remaining: 2.12s
39: learn: 3530.0981068 test: 3553.2063510 best: 3553.2063510 (39) total: 527ms remaining: 2.11s
40: learn: 3494.2024389 test: 3517.0009833 best: 3517.0009833 (40) total: 539ms remaining: 2.09s
41: learn: 3459.1896322 test: 3481.7632167 best: 3481.7632167 (41) total: 557ms remaining: 2.09s
42: learn: 3426.9637323 test: 3448.9958558 best: 3448.9958558 (42) total: 570ms remaining: 2.08s
43: learn: 3395.9214971 test: 3417.4955054 best: 3417.4955054 (43) total: 584ms remaining: 2.07s
44: learn: 3364.3270788 test: 3385.7847784 best: 3385.7847784 (44) total: 597ms remaining: 2.06s
45: learn: 3332.6393484 test: 3353.3919711 best: 3353.3919711 (45) total: 610ms remaining: 2.04s
46: learn: 3301.9143820 test: 3322.0454930 best: 3322.0454930 (46) total: 622ms remaining: 2.03s
47: learn: 3275.2063923 test: 3295.0390609 best: 3295.0390609 (47) total: 636ms remaining: 2.01s
48: learn: 3247.4336946 test: 3266.5834781 best: 3266.5834781 (48) total: 651ms remaining: 2.01s
49: learn: 3221.9619252 test: 3240.5180548 best: 3240.5180548 (49) total: 665ms remaining: 1.99s
50: learn: 3196.3863637 test: 3214.8070233 best: 3214.8070233 (50) total: 678ms remaining: 1.98s
51: learn: 3173.3052330 test: 3191.1152554 best: 3191.1152554 (51) total: 691ms remaining: 1.97s
52: learn: 3148.2599703 test: 3165.7286062 best: 3165.7286062 (52) total: 704ms remaining: 1.95s
53: learn: 3125.0713919 test: 3142.0177585 best: 3142.0177585 (53) total: 717ms remaining: 1.94s
54: learn: 3102.3058492 test: 3118.9793848 best: 3118.9793848 (54) total: 736ms remaining: 1.94s

55: learn: 3080.7233650 test: 3097.2489787 best: 3097.2489787 (55) total: 753ms remaining: 1.94s
56: learn: 3060.5428885 test: 3076.6576617 best: 3076.6576617 (56) total: 766ms remaining: 1.92s
57: learn: 3040.4061165 test: 3055.9617254 best: 3055.9617254 (57) total: 779ms remaining: 1.91s
58: learn: 3021.4535372 test: 3036.5863924 best: 3036.5863924 (58) total: 792ms remaining: 1.89s
59: learn: 3004.0520502 test: 3018.7413037 best: 3018.7413037 (59) total: 805ms remaining: 1.88s
60: learn: 2987.5754737 test: 3001.7018751 best: 3001.7018751 (60) total: 818ms remaining: 1.86s
61: learn: 2971.2003215 test: 2985.0660880 best: 2985.0660880 (61) total: 830ms remaining: 1.85s
62: learn: 2954.0145453 test: 2967.7288490 best: 2967.7288490 (62) total: 843ms remaining: 1.83s
63: learn: 2936.9262333 test: 2950.2372298 best: 2950.2372298 (63) total: 859ms remaining: 1.82s
64: learn: 2922.8644336 test: 2935.6988132 best: 2935.6988132 (64) total: 872ms remaining: 1.81s
65: learn: 2907.2744549 test: 2919.7770000 best: 2919.7770000 (65) total: 885ms remaining: 1.8s
66: learn: 2892.8014625 test: 2904.8875915 best: 2904.8875915 (66) total: 897ms remaining: 1.78s
67: learn: 2878.7125477 test: 2890.2517120 best: 2890.2517120 (67) total: 910ms remaining: 1.77s
68: learn: 2864.5961320 test: 2875.9880786 best: 2875.9880786 (68) total: 923ms remaining: 1.75s
69: learn: 2851.6488351 test: 2862.6444933 best: 2862.6444933 (69) total: 935ms remaining: 1.74s
70: learn: 2839.2595660 test: 2849.7950302 best: 2849.7950302 (70) total: 952ms remaining: 1.73s
71: learn: 2826.6643094 test: 2837.0511386 best: 2837.0511386 (71) total: 965ms remaining: 1.72s
72: learn: 2815.0328164 test: 2825.0212881 best: 2825.0212881 (72) total: 978ms remaining: 1.7s
73: learn: 2804.1414714 test: 2813.7667392 best: 2813.7667392 (73) total: 992ms remaining: 1.69s
74: learn: 2793.1586488 test: 2802.4819714 best: 2802.4819714 (74) total: 1s remaining: 1.68s
75: learn: 2782.9577984 test: 2791.8488840 best: 2791.8488840 (75) total: 1.02s remaining: 1.66s
76: learn: 2772.0199020 test: 2780.6435047 best: 2780.6435047 (76) total: 1.03s remaining: 1.65s
77: learn: 2762.5561721 test: 2770.8530807 best: 2770.8530807 (77) total: 1.05s remaining: 1.64s
78: learn: 2751.4896977 test: 2759.6162905 best: 2759.6162905 (78) total: 1.06s remaining: 1.63s
79: learn: 2741.7064505 test: 2749.5514589 best: 2749.5514589 (79) total: 1.08s remaining: 1.62s
80: learn: 2732.9793399 test: 2740.4373410 best: 2740.4373410 (80) total: 1.09s remaining: 1.6s
81: learn: 2724.4017830 test: 2731.4107217 best: 2731.4107217 (81) total: 1.1s remaining: 1.59s
82: learn: 2716.2612429 test: 2722.8157114 best: 2722.8157114 (82) total: 1.11s remaining: 1.57s
83: learn: 2708.5911241 test: 2714.8235196 best: 2714.8235196 (83) total: 1.13s remaining: 1.56s
84: learn: 2701.0740558 test: 2706.8254648 best: 2706.8254648 (84) total: 1.15s remaining: 1.55s
85: learn: 2693.3582528 test: 2699.1621922 best: 2699.1621922 (85) total: 1.16s remaining: 1.54s
86: learn: 2686.1014551 test: 2691.6318452 best: 2691.6318452 (86) total: 1.18s remaining: 1.53s
87: learn: 2679.3324759 test: 2684.5528448 best: 2684.5528448 (87) total: 1.19s remaining: 1.51s
88: learn: 2671.9798173 test: 2677.0973419 best: 2677.0973419 (88) total: 1.2s remaining: 1.5s
89: learn: 2664.9816041 test: 2669.8296852 best: 2669.8296852 (89) total: 1.21s remaining: 1.48s
90: learn: 2658.2008701 test: 2663.1156196 best: 2663.1156196 (90) total: 1.23s remaining: 1.47s
91: learn: 2651.9722257 test: 2656.5909059 best: 2656.5909059 (91) total: 1.24s remaining: 1.45s
92: learn: 2645.7770137 test: 2650.2756161 best: 2650.2756161 (92) total: 1.25s remaining: 1.44s
93: learn: 2640.0874568 test: 2644.6575238 best: 2644.6575238 (93) total: 1.27s remaining: 1.43s
94: learn: 2634.4651233 test: 2638.7888109 best: 2638.7888109 (94) total: 1.28s remaining: 1.41s
95: learn: 2628.8227259 test: 2632.9332807 best: 2632.9332807 (95) total: 1.29s remaining: 1.4s
96: learn: 2622.1277827 test: 2626.2222416 best: 2626.2222416 (96) total: 1.3s remaining: 1.39s

96: learn: 2622.1375095 test: 2626.1386910 best: 2626.1386910 (96) total: 1.3s remaining: 1.39s
97: learn: 2616.5218979 test: 2620.4214619 best: 2620.4214619 (97) total: 1.32s remaining: 1.37s
98: learn: 2611.1087651 test: 2614.7039985 best: 2614.7039985 (98) total: 1.33s remaining: 1.36s
99: learn: 2603.5652585 test: 2607.0340197 best: 2607.0340197 (99) total: 1.35s remaining: 1.35s
100: learn: 2598.4777785 test: 2601.4725418 best: 2601.4725418 (100) total: 1.36s remaining: 1.34s
101: learn: 2593.0877790 test: 2595.9274378 best: 2595.9274378 (101) total: 1.38s remaining: 1.32s
102: learn: 2588.0433827 test: 2590.6010728 best: 2590.6010728 (102) total: 1.39s remaining: 1.31s
103: learn: 2582.9630831 test: 2585.4367129 best: 2585.4367129 (103) total: 1.4s remaining: 1.29s
104: learn: 2578.1684387 test: 2580.4278772 best: 2580.4278772 (104) total: 1.42s remaining: 1.28s
105: learn: 2573.4432160 test: 2575.6268303 best: 2575.6268303 (105) total: 1.43s remaining: 1.26s
106: learn: 2566.6450271 test: 2568.7527899 best: 2568.7527899 (106) total: 1.44s remaining: 1.25s
107: learn: 2561.4350461 test: 2563.5885735 best: 2563.5885735 (107) total: 1.45s remaining: 1.24s
108: learn: 2556.5350770 test: 2558.5054014 best: 2558.5054014 (108) total: 1.47s remaining: 1.23s
109: learn: 2550.1411492 test: 2551.9933591 best: 2551.9933591 (109) total: 1.48s remaining: 1.21s
110: learn: 2545.8674027 test: 2547.4391299 best: 2547.4391299 (110) total: 1.49s remaining: 1.2s
111: learn: 2541.1786260 test: 2542.8627506 best: 2542.8627506 (111) total: 1.5s remaining: 1.18s
112: learn: 2536.6683328 test: 2538.4442902 best: 2538.4442902 (112) total: 1.52s remaining: 1.17s
113: learn: 2532.3713036 test: 2533.7620776 best: 2533.7620776 (113) total: 1.53s remaining: 1.15s
114: learn: 2526.5370340 test: 2527.8157171 best: 2527.8157171 (114) total: 1.55s remaining: 1.14s
115: learn: 2522.4393804 test: 2523.8232045 best: 2523.8232045 (115) total: 1.56s remaining: 1.13s
116: learn: 2518.4815191 test: 2519.6023661 best: 2519.6023661 (116) total: 1.57s remaining: 1.11s
117: learn: 2513.0224585 test: 2514.0324057 best: 2514.0324057 (117) total: 1.58s remaining: 1.1s
118: learn: 2509.0076200 test: 2509.5981110 best: 2509.5981110 (118) total: 1.6s remaining: 1.09s
119: learn: 2505.1409283 test: 2505.5388258 best: 2505.5388258 (119) total: 1.61s remaining: 1.07s
120: learn: 2501.2496081 test: 2501.6043280 best: 2501.6043280 (120) total: 1.62s remaining: 1.06s
121: learn: 2497.5642577 test: 2497.5756938 best: 2497.5756938 (121) total: 1.64s remaining: 1.05s
122: learn: 2493.9260612 test: 2493.7851413 best: 2493.7851413 (122) total: 1.65s remaining: 1.03s
123: learn: 2490.4601765 test: 2490.1193710 best: 2490.1193710 (123) total: 1.66s remaining: 1.02s
124: learn: 2486.8957914 test: 2486.3550051 best: 2486.3550051 (124) total: 1.68s remaining: 1s
125: learn: 2483.2363642 test: 2482.7755880 best: 2482.7755880 (125) total: 1.69s remaining: 991ms
126: learn: 2478.0765916 test: 2477.5531244 best: 2477.5531244 (126) total: 1.7s remaining: 978ms
127: learn: 2474.7163092 test: 2474.2769044 best: 2474.2769044 (127) total: 1.71s remaining: 964ms
128: learn: 2471.3678821 test: 2470.8014444 best: 2470.8014444 (128) total: 1.73s remaining: 950ms
129: learn: 2466.5055980 test: 2465.8765489 best: 2465.8765489 (129) total: 1.74s remaining: 939ms
130: learn: 2463.3264357 test: 2462.3987192 best: 2462.3987192 (130) total: 1.76s remaining: 925ms
131: learn: 2460.0916711 test: 2459.2551891 best: 2459.2551891 (131) total: 1.77s remaining: 911ms
132: learn: 2456.8466032 test: 2456.0316835 best: 2456.0316835 (132) total: 1.78s remaining: 898ms
133: learn: 2453.8104107 test: 2452.7827426 best: 2452.7827426 (133) total: 1.79s remaining: 884ms
134: learn: 2450.5072687 test: 2449.5346289 best: 2449.5346289 (134) total: 1.81s remaining: 870ms
135: learn: 2445.9558202 test: 2444.9233906 best: 2444.9233906 (135) total: 1.82s remaining: 856ms
136: learn: 2442.9245460 test: 2441.6647115 best: 2441.6647115 (136) total: 1.83s remaining: 843ms
137: learn: 2439.9828966 test: 2438.4322692 best: 2438.4322692 (137) total: 1.85s remaining: 830ms

138: learn: 2437.0670072 test: 2435.3422922 best: 2435.3422922 (138) total: 1.86s remaining: 816ms
139: learn: 2434.1386919 test: 2432.5034291 best: 2432.5034291 (139) total: 1.87s remaining: 803ms
140: learn: 2431.2713026 test: 2429.5645959 best: 2429.5645959 (140) total: 1.89s remaining: 790ms
141: learn: 2427.2830652 test: 2425.4701292 best: 2425.4701292 (141) total: 1.9s remaining: 776ms
142: learn: 2423.2538505 test: 2421.3408626 best: 2421.3408626 (142) total: 1.91s remaining: 762ms
143: learn: 2420.5081221 test: 2418.6815894 best: 2418.6815894 (143) total: 1.92s remaining: 748ms
144: learn: 2417.9476090 test: 2416.2042919 best: 2416.2042919 (144) total: 1.94s remaining: 735ms
145: learn: 2415.1220857 test: 2413.4120165 best: 2413.4120165 (145) total: 1.95s remaining: 722ms
146: learn: 2412.4605040 test: 2410.7842004 best: 2410.7842004 (146) total: 1.96s remaining: 708ms
147: learn: 2408.5646911 test: 2406.7699786 best: 2406.7699786 (147) total: 1.98s remaining: 695ms
148: learn: 2406.0298452 test: 2403.9326559 best: 2403.9326559 (148) total: 1.99s remaining: 683ms
149: learn: 2402.3442693 test: 2400.1793861 best: 2400.1793861 (149) total: 2.01s remaining: 669ms
150: learn: 2399.8837491 test: 2397.7749470 best: 2397.7749470 (150) total: 2.02s remaining: 655ms
151: learn: 2396.1512993 test: 2393.9850047 best: 2393.9850047 (151) total: 2.04s remaining: 643ms
152: learn: 2393.3312866 test: 2391.0420450 best: 2391.0420450 (152) total: 2.05s remaining: 629ms
153: learn: 2390.8436727 test: 2388.3171557 best: 2388.3171557 (153) total: 2.06s remaining: 615ms
154: learn: 2388.3097478 test: 2385.5609321 best: 2385.5609321 (154) total: 2.07s remaining: 602ms
155: learn: 2385.9335716 test: 2383.1281707 best: 2383.1281707 (155) total: 2.08s remaining: 588ms
156: learn: 2383.5382090 test: 2380.8120550 best: 2380.8120550 (156) total: 2.1s remaining: 575ms
157: learn: 2381.2557972 test: 2378.3439294 best: 2378.3439294 (157) total: 2.11s remaining: 561ms
158: learn: 2377.7421477 test: 2374.7380420 best: 2374.7380420 (158) total: 2.12s remaining: 547ms
159: learn: 2375.4202640 test: 2372.2923445 best: 2372.2923445 (159) total: 2.14s remaining: 534ms
160: learn: 2373.0759660 test: 2369.6687856 best: 2369.6687856 (160) total: 2.15s remaining: 521ms
161: learn: 2370.8505514 test: 2367.4788070 best: 2367.4788070 (161) total: 2.16s remaining: 507ms
162: learn: 2367.6134098 test: 2364.1425759 best: 2364.1425759 (162) total: 2.17s remaining: 493ms
163: learn: 2365.4159560 test: 2361.8452921 best: 2361.8452921 (163) total: 2.19s remaining: 480ms
164: learn: 2362.2635790 test: 2358.6339949 best: 2358.6339949 (164) total: 2.2s remaining: 466ms
165: learn: 2360.0826787 test: 2356.4929470 best: 2356.4929470 (165) total: 2.21s remaining: 453ms
166: learn: 2356.9572457 test: 2353.3105167 best: 2353.3105167 (166) total: 2.22s remaining: 439ms
167: learn: 2354.9049555 test: 2351.3290158 best: 2351.3290158 (167) total: 2.24s remaining: 426ms
168: learn: 2352.9110380 test: 2349.2378679 best: 2349.2378679 (168) total: 2.25s remaining: 413ms
169: learn: 2350.8756047 test: 2347.2429217 best: 2347.2429217 (169) total: 2.26s remaining: 400ms
170: learn: 2348.6984839 test: 2344.9616744 best: 2344.9616744 (170) total: 2.28s remaining: 386ms
171: learn: 2346.6616299 test: 2342.9871409 best: 2342.9871409 (171) total: 2.29s remaining: 373ms
172: learn: 2344.6699400 test: 2340.7600798 best: 2340.7600798 (172) total: 2.3s remaining: 359ms
173: learn: 2342.7223262 test: 2338.6811108 best: 2338.6811108 (173) total: 2.31s remaining: 346ms
174: learn: 2340.2367234 test: 2336.1165595 best: 2336.1165595 (174) total: 2.33s remaining: 333ms
175: learn: 2338.1946793 test: 2333.7165074 best: 2333.7165074 (175) total: 2.35s remaining: 320ms
176: learn: 2335.3852642 test: 2330.8243224 best: 2330.8243224 (176) total: 2.36s remaining: 307ms
177: learn: 2333.4027448 test: 2328.9147337 best: 2328.9147337 (177) total: 2.38s remaining: 294ms
178: learn: 2330.6877136 test: 2326.1054197 best: 2326.1054197 (178) total: 2.39s remaining: 280ms

179: learn: 2328.8605333 test: 2324.3173618 best: 2324.3173618 (179) total: 2.4s remaining: 267ms
180: learn: 2327.0668088 test: 2322.3530750 best: 2322.3530750 (180) total: 2.41s remaining: 253ms
181: learn: 2325.2389402 test: 2320.6008550 best: 2320.6008550 (181) total: 2.43s remaining: 241ms
182: learn: 2323.4230149 test: 2318.7460463 best: 2318.7460463 (182) total: 2.45s remaining: 227ms
183: learn: 2321.4045836 test: 2316.3789206 best: 2316.3789206 (183) total: 2.46s remaining: 214ms
184: learn: 2319.7561383 test: 2314.7677502 best: 2314.7677502 (184) total: 2.47s remaining: 201ms
185: learn: 2317.2028506 test: 2312.1235665 best: 2312.1235665 (185) total: 2.48s remaining: 187ms
186: learn: 2314.7333971 test: 2309.6006995 best: 2309.6006995 (186) total: 2.5s remaining: 174ms
187: learn: 2312.7385888 test: 2307.4805535 best: 2307.4805535 (187) total: 2.51s remaining: 160ms
188: learn: 2310.9489786 test: 2305.5310359 best: 2305.5310359 (188) total: 2.52s remaining: 147ms
189: learn: 2309.1991845 test: 2303.6042399 best: 2303.6042399 (189) total: 2.53s remaining: 133ms
190: learn: 2307.4050755 test: 2301.7390997 best: 2301.7390997 (190) total: 2.55s remaining: 120ms
191: learn: 2305.7735252 test: 2299.9929764 best: 2299.9929764 (191) total: 2.56s remaining: 107ms
192: learn: 2304.1634114 test: 2298.4290753 best: 2298.4290753 (192) total: 2.57s remaining: 93.3ms
193: learn: 2302.4690967 test: 2296.6159410 best: 2296.6159410 (193) total: 2.58s remaining: 79.9ms
194: learn: 2300.0369011 test: 2294.0645763 best: 2294.0645763 (194) total: 2.6s remaining: 66.6ms
195: learn: 2297.7260758 test: 2291.7012750 best: 2291.7012750 (195) total: 2.61s remaining: 53.2ms
196: learn: 2296.1449550 test: 2290.2672863 best: 2290.2672863 (196) total: 2.62s remaining: 39.9ms
197: learn: 2294.3588414 test: 2288.5377298 best: 2288.5377298 (197) total: 2.64s remaining: 26.6ms
198: learn: 2292.8385496 test: 2286.9157838 best: 2286.9157838 (198) total: 2.65s remaining: 13.3ms
199: learn: 2291.2231596 test: 2285.3740508 best: 2285.3740508 (199) total: 2.66s remaining: 0us

bestTest = 2285.374051

bestIteration = 199

20: loss: 2285.3740508 best: 1985.7465399 (19) total: 41.5s remaining: 2m 28s
0: learn: 6448.8660194 test: 6477.8364241 best: 6477.8364241 (0) total: 13.5ms remaining: 2.68s
1: learn: 5970.9342790 test: 5999.9621843 best: 5999.9621843 (1) total: 26.6ms remaining: 2.63s
2: learn: 5555.1842372 test: 5583.5546055 best: 5583.5546055 (2) total: 39.4ms remaining: 2.58s
3: learn: 5181.2337691 test: 5210.8554060 best: 5210.8554060 (3) total: 51.6ms remaining: 2.53s
4: learn: 4854.4573450 test: 4885.1218831 best: 4885.1218831 (4) total: 65.3ms remaining: 2.55s
5: learn: 4567.5384870 test: 4597.2814540 best: 4597.2814540 (5) total: 77.4ms remaining: 2.5s
6: learn: 4324.0912118 test: 4352.9233470 best: 4352.9233470 (6) total: 93.2ms remaining: 2.57s
7: learn: 4104.7492445 test: 4131.8941088 best: 4131.8941088 (7) total: 106ms remaining: 2.54s
8: learn: 3917.2416255 test: 3943.3309030 best: 3943.3309030 (8) total: 119ms remaining: 2.52s
9: learn: 3748.7135575 test: 3774.6366654 best: 3774.6366654 (9) total: 131ms remaining: 2.48s
10: learn: 3605.2716440 test: 3629.5938628 best: 3629.5938628 (10) total: 144ms remaining: 2.47s
11: learn: 3476.4697954 test: 3500.4368465 best: 3500.4368465 (11) total: 163ms remaining: 2.55s
12: learn: 3370.2508217 test: 3392.7467999 best: 3392.7467999 (12) total: 176ms remaining: 2.52s
13: learn: 3264.2944409 test: 3284.5871723 best: 3284.5871723 (13) total: 188ms remaining: 2.5s
14: learn: 3174.2180488 test: 3192.5331580 best: 3192.5331580 (14) total: 200ms remaining: 2.47s

15: learn: 3100.6727080 test: 3117.6960803 best: 3117.6960803 (15) total: 214ms remaining: 2.46s
16: learn: 3028.0646584 test: 3043.8083255 best: 3043.8083255 (16) total: 226ms remaining: 2.44s
17: learn: 2968.0803248 test: 2982.1718003 best: 2982.1718003 (17) total: 238ms remaining: 2.41s
18: learn: 2912.6302456 test: 2926.2381014 best: 2926.2381014 (18) total: 253ms remaining: 2.41s
19: learn: 2867.7308415 test: 2879.7466140 best: 2879.7466140 (19) total: 266ms remaining: 2.39s
20: learn: 2822.7834827 test: 2833.8196493 best: 2833.8196493 (20) total: 278ms remaining: 2.37s
21: learn: 2786.5264777 test: 2796.6581675 best: 2796.6581675 (21) total: 290ms remaining: 2.35s
22: learn: 2752.8017125 test: 2761.3986304 best: 2761.3986304 (22) total: 302ms remaining: 2.32s
23: learn: 2725.2794207 test: 2732.7028259 best: 2732.7028259 (23) total: 315ms remaining: 2.31s
24: learn: 2699.6380469 test: 2706.2665388 best: 2706.2665388 (24) total: 327ms remaining: 2.29s
25: learn: 2676.8276406 test: 2682.3869761 best: 2682.3869761 (25) total: 339ms remaining: 2.27s
26: learn: 2655.0355757 test: 2659.0291816 best: 2659.0291816 (26) total: 355ms remaining: 2.28s
27: learn: 2635.0693174 test: 2638.6718459 best: 2638.6718459 (27) total: 368ms remaining: 2.26s
28: learn: 2608.4577351 test: 2611.5881214 best: 2611.5881214 (28) total: 381ms remaining: 2.24s
29: learn: 2588.9311005 test: 2592.2045634 best: 2592.2045634 (29) total: 393ms remaining: 2.23s
30: learn: 2573.4180022 test: 2575.6118773 best: 2575.6118773 (30) total: 405ms remaining: 2.21s
31: learn: 2558.0604760 test: 2559.6341030 best: 2559.6341030 (31) total: 417ms remaining: 2.19s
32: learn: 2542.9038772 test: 2544.6429087 best: 2544.6429087 (32) total: 429ms remaining: 2.17s
33: learn: 2529.2379851 test: 2530.7955862 best: 2530.7955862 (33) total: 441ms remaining: 2.15s
34: learn: 2510.4196279 test: 2511.5534981 best: 2511.5534981 (34) total: 455ms remaining: 2.15s
35: learn: 2498.3514586 test: 2498.9317735 best: 2498.9317735 (35) total: 468ms remaining: 2.13s
36: learn: 2486.0429534 test: 2485.5087440 best: 2485.5087440 (36) total: 480ms remaining: 2.12s
37: learn: 2474.5465559 test: 2474.2834447 best: 2474.2834447 (37) total: 493ms remaining: 2.1s
38: learn: 2464.0499683 test: 2463.5002007 best: 2463.5002007 (38) total: 507ms remaining: 2.09s
39: learn: 2454.0388325 test: 2453.1352706 best: 2453.1352706 (39) total: 522ms remaining: 2.09s
40: learn: 2443.8230278 test: 2441.8092085 best: 2441.8092085 (40) total: 536ms remaining: 2.08s
41: learn: 2428.8710165 test: 2426.6577871 best: 2426.6577871 (41) total: 555ms remaining: 2.09s
42: learn: 2419.4746213 test: 2417.6853477 best: 2417.6853477 (42) total: 567ms remaining: 2.07s
43: learn: 2410.8770073 test: 2409.3484688 best: 2409.3484688 (43) total: 580ms remaining: 2.06s
44: learn: 2398.7468938 test: 2396.8899079 best: 2396.8899079 (44) total: 593ms remaining: 2.04s
45: learn: 2390.1956876 test: 2388.3236841 best: 2388.3236841 (45) total: 606ms remaining: 2.03s
46: learn: 2381.9573950 test: 2379.5657810 best: 2379.5657810 (46) total: 619ms remaining: 2.01s
47: learn: 2373.5346331 test: 2370.6485130 best: 2370.6485130 (47) total: 631ms remaining: 2s
48: learn: 2366.3739225 test: 2362.4753797 best: 2362.4753797 (48) total: 643ms remaining: 1.98s
49: learn: 2359.2774851 test: 2355.0926094 best: 2355.0926094 (49) total: 658ms remaining: 1.97s
50: learn: 2348.9405158 test: 2344.5635406 best: 2344.5635406 (50) total: 670ms remaining: 1.96s
51: learn: 2342.6826197 test: 2338.6308206 best: 2338.6308206 (51) total: 683ms remaining: 1.94s
52: learn: 2336.5152886 test: 2332.2018972 best: 2332.2018972 (52) total: 695ms remaining: 1.93s
53: learn: 2330.5685730 test: 2326.4060101 best: 2326.4060101 (53) total: 708ms remaining: 1.91s
54: learn: 2325.1131893 test: 2321.1703287 best: 2321.1703287 (54) total: 721ms remaining: 1.9s
55: learn: 2316.8317628 test: 2312.5998012 best: 2312.5998012 (55) total: 734ms remaining: 1.89s
56: learn: 2311.1018510 test: 2306.6045450 best: 2306.6045450 (56) total: 751ms remaining: 1.88s

56: learn: 2311.1918510 test: 2306.6945459 best: 2306.6945459 (56) total: 751ms remaining: 1.88s
57: learn: 2305.9642938 test: 2301.0934255 best: 2301.0934255 (57) total: 765ms remaining: 1.87s
58: learn: 2297.3126003 test: 2292.2673245 best: 2292.2673245 (58) total: 781ms remaining: 1.87s
59: learn: 2292.7481592 test: 2287.5925486 best: 2287.5925486 (59) total: 794ms remaining: 1.85s
60: learn: 2287.8233865 test: 2282.9482284 best: 2282.9482284 (60) total: 807ms remaining: 1.84s
61: learn: 2282.5635770 test: 2277.4405073 best: 2277.4405073 (61) total: 819ms remaining: 1.82s
62: learn: 2276.8513470 test: 2270.8057290 best: 2270.8057290 (62) total: 836ms remaining: 1.82s
63: learn: 2271.1072033 test: 2264.9882898 best: 2264.9882898 (63) total: 852ms remaining: 1.81s
64: learn: 2264.6602767 test: 2258.3805140 best: 2258.3805140 (64) total: 867ms remaining: 1.8s
65: learn: 2260.2703615 test: 2254.1303399 best: 2254.1303399 (65) total: 879ms remaining: 1.78s
66: learn: 2256.1689544 test: 2250.3494160 best: 2250.3494160 (66) total: 892ms remaining: 1.77s
67: learn: 2251.9778330 test: 2245.6013008 best: 2245.6013008 (67) total: 904ms remaining: 1.75s
68: learn: 2246.8005998 test: 2240.0363760 best: 2240.0363760 (68) total: 919ms remaining: 1.75s
69: learn: 2242.7425231 test: 2235.8313493 best: 2235.8313493 (69) total: 935ms remaining: 1.74s
70: learn: 2239.1794722 test: 2232.3638630 best: 2232.3638630 (70) total: 951ms remaining: 1.73s
71: learn: 2233.6552240 test: 2226.5827706 best: 2226.5827706 (71) total: 964ms remaining: 1.71s
72: learn: 2230.2368344 test: 2223.3987848 best: 2223.3987848 (72) total: 975ms remaining: 1.7s
73: learn: 2225.2404505 test: 2218.0547883 best: 2218.0547883 (73) total: 988ms remaining: 1.68s
74: learn: 2220.3086410 test: 2212.8944224 best: 2212.8944224 (74) total: 1s remaining: 1.67s
75: learn: 2216.0798848 test: 2208.8554586 best: 2208.8554586 (75) total: 1.01s remaining: 1.65s
76: learn: 2212.0632547 test: 2205.0572467 best: 2205.0572467 (76) total: 1.03s remaining: 1.64s
77: learn: 2208.8251667 test: 2201.9964009 best: 2201.9964009 (77) total: 1.04s remaining: 1.63s
78: learn: 2204.3392645 test: 2197.2777386 best: 2197.2777386 (78) total: 1.05s remaining: 1.61s
79: learn: 2200.0593251 test: 2192.6829553 best: 2192.6829553 (79) total: 1.06s remaining: 1.6s
80: learn: 2197.0780005 test: 2189.2260767 best: 2189.2260767 (80) total: 1.08s remaining: 1.58s
81: learn: 2192.7772901 test: 2184.8038351 best: 2184.8038351 (81) total: 1.09s remaining: 1.57s
82: learn: 2190.1580529 test: 2182.2569003 best: 2182.2569003 (82) total: 1.1s remaining: 1.56s
83: learn: 2186.9168468 test: 2178.8513312 best: 2178.8513312 (83) total: 1.12s remaining: 1.54s
84: learn: 2183.2181802 test: 2174.9774417 best: 2174.9774417 (84) total: 1.13s remaining: 1.53s
85: learn: 2180.1895869 test: 2172.2273303 best: 2172.2273303 (85) total: 1.15s remaining: 1.52s
86: learn: 2177.3569733 test: 2169.5111910 best: 2169.5111910 (86) total: 1.16s remaining: 1.51s
87: learn: 2174.2641186 test: 2166.3832914 best: 2166.3832914 (87) total: 1.18s remaining: 1.5s
88: learn: 2171.4564107 test: 2163.6626554 best: 2163.6626554 (88) total: 1.19s remaining: 1.48s
89: learn: 2168.9980286 test: 2161.0332417 best: 2161.0332417 (89) total: 1.2s remaining: 1.47s
90: learn: 2165.8052852 test: 2157.6615281 best: 2157.6615281 (90) total: 1.21s remaining: 1.45s
91: learn: 2163.3840589 test: 2155.6092295 best: 2155.6092295 (91) total: 1.23s remaining: 1.44s
92: learn: 2159.5230693 test: 2151.6657720 best: 2151.6657720 (92) total: 1.24s remaining: 1.42s
93: learn: 2156.2327310 test: 2148.1079908 best: 2148.1079908 (93) total: 1.25s remaining: 1.41s
94: learn: 2153.2920195 test: 2145.3250546 best: 2145.3250546 (94) total: 1.26s remaining: 1.4s
95: learn: 2150.7861853 test: 2142.7683209 best: 2142.7683209 (95) total: 1.28s remaining: 1.38s
96: learn: 2146.7089055 test: 2138.4528637 best: 2138.4528637 (96) total: 1.29s remaining: 1.37s
97: learn: 2144.0230096 test: 2135.9730379 best: 2135.9730379 (97) total: 1.3s remaining: 1.35s

98: learn: 2141.6956725 test: 2133.9308677 best: 2133.9308677 (98) total: 1.31s remaining: 1.34s
99: learn: 2139.0768243 test: 2131.2673082 best: 2131.2673082 (99) total: 1.33s remaining: 1.33s
100: learn: 2136.5261486 test: 2128.9127626 best: 2128.9127626 (100) total: 1.34s remaining: 1.32s
101: learn: 2133.8085663 test: 2126.1806027 best: 2126.1806027 (101) total: 1.35s remaining: 1.3s
102: learn: 2131.6650126 test: 2123.9315355 best: 2123.9315355 (102) total: 1.37s remaining: 1.29s
103: learn: 2129.6278901 test: 2121.6166077 best: 2121.6166077 (103) total: 1.38s remaining: 1.27s
104: learn: 2126.4808757 test: 2118.5357800 best: 2118.5357800 (104) total: 1.39s remaining: 1.26s
105: learn: 2124.4171996 test: 2116.6106380 best: 2116.6106380 (105) total: 1.41s remaining: 1.25s
106: learn: 2122.5081288 test: 2114.7653552 best: 2114.7653552 (106) total: 1.42s remaining: 1.23s
107: learn: 2119.7464114 test: 2111.7741638 best: 2111.7741638 (107) total: 1.43s remaining: 1.22s
108: learn: 2116.6760014 test: 2108.7378330 best: 2108.7378330 (108) total: 1.44s remaining: 1.21s
109: learn: 2114.7777177 test: 2106.9873564 best: 2106.9873564 (109) total: 1.46s remaining: 1.19s
110: learn: 2113.0145902 test: 2105.4532334 best: 2105.4532334 (110) total: 1.47s remaining: 1.18s
111: learn: 2110.0496707 test: 2102.3629721 best: 2102.3629721 (111) total: 1.48s remaining: 1.17s
112: learn: 2108.1193133 test: 2100.3847310 best: 2100.3847310 (112) total: 1.5s remaining: 1.15s
113: learn: 2106.3953208 test: 2098.7589724 best: 2098.7589724 (113) total: 1.51s remaining: 1.14s
114: learn: 2103.8815173 test: 2096.0366709 best: 2096.0366709 (114) total: 1.52s remaining: 1.12s
115: learn: 2102.0499689 test: 2094.3927339 best: 2094.3927339 (115) total: 1.54s remaining: 1.11s
116: learn: 2099.9328655 test: 2092.2375393 best: 2092.2375393 (116) total: 1.55s remaining: 1.1s
117: learn: 2097.9322530 test: 2090.5074294 best: 2090.5074294 (117) total: 1.56s remaining: 1.08s
118: learn: 2096.2893872 test: 2088.9221555 best: 2088.9221555 (118) total: 1.57s remaining: 1.07s
119: learn: 2093.8175736 test: 2086.5088157 best: 2086.5088157 (119) total: 1.59s remaining: 1.06s
120: learn: 2092.4685403 test: 2085.1718227 best: 2085.1718227 (120) total: 1.6s remaining: 1.04s
121: learn: 2090.8760966 test: 2083.3811971 best: 2083.3811971 (121) total: 1.61s remaining: 1.03s
122: learn: 2089.3120147 test: 2081.9717777 best: 2081.9717777 (122) total: 1.62s remaining: 1.02s
123: learn: 2087.8447478 test: 2080.8062170 best: 2080.8062170 (123) total: 1.64s remaining: 1s
124: learn: 2085.5680120 test: 2078.3391169 best: 2078.3391169 (124) total: 1.65s remaining: 990ms
125: learn: 2083.0570708 test: 2075.8637833 best: 2075.8637833 (125) total: 1.66s remaining: 977ms
126: learn: 2081.6284017 test: 2074.4932158 best: 2074.4932158 (126) total: 1.68s remaining: 963ms
127: learn: 2079.9331439 test: 2073.1652995 best: 2073.1652995 (127) total: 1.69s remaining: 949ms
128: learn: 2078.4228244 test: 2071.7549735 best: 2071.7549735 (128) total: 1.7s remaining: 935ms
129: learn: 2077.0727992 test: 2070.2819552 best: 2070.2819552 (129) total: 1.71s remaining: 922ms
130: learn: 2075.7087278 test: 2069.1771532 best: 2069.1771532 (130) total: 1.73s remaining: 909ms
131: learn: 2073.7145310 test: 2067.2307035 best: 2067.2307035 (131) total: 1.74s remaining: 898ms
132: learn: 2072.1450267 test: 2065.6320047 best: 2065.6320047 (132) total: 1.76s remaining: 885ms
133: learn: 2070.0374661 test: 2063.5608427 best: 2063.5608427 (133) total: 1.77s remaining: 872ms
134: learn: 2067.7372396 test: 2061.0543667 best: 2061.0543667 (134) total: 1.78s remaining: 858ms
135: learn: 2066.3620908 test: 2059.5810786 best: 2059.5810786 (135) total: 1.79s remaining: 844ms
136: learn: 2065.0083710 test: 2058.0718544 best: 2058.0718544 (136) total: 1.8s remaining: 830ms
137: learn: 2063.7115528 test: 2056.8152853 best: 2056.8152853 (137) total: 1.82s remaining: 817ms
138: learn: 2062.2854471 test: 2055.5786918 best: 2055.5786918 (138) total: 1.83s remaining: 805ms

139: learn: 2060.1573539 test: 2053.3506584 best: 2053.3506584 (139) total: 1.85s remaining: 793ms
140: learn: 2058.2349334 test: 2051.3348870 best: 2051.3348870 (140) total: 1.87s remaining: 781ms
141: learn: 2057.0811583 test: 2050.4600558 best: 2050.4600558 (141) total: 1.88s remaining: 768ms
142: learn: 2055.7955587 test: 2049.0135092 best: 2049.0135092 (142) total: 1.9s remaining: 756ms
143: learn: 2054.1393941 test: 2047.3526665 best: 2047.3526665 (143) total: 1.91s remaining: 744ms
144: learn: 2052.9344049 test: 2046.1817548 best: 2046.1817548 (144) total: 1.93s remaining: 731ms
145: learn: 2051.7624335 test: 2045.0708315 best: 2045.0708315 (145) total: 1.94s remaining: 719ms
146: learn: 2050.2782036 test: 2043.4935075 best: 2043.4935075 (146) total: 1.96s remaining: 707ms
147: learn: 2049.2212333 test: 2042.5269327 best: 2042.5269327 (147) total: 1.98s remaining: 694ms
148: learn: 2048.1388811 test: 2041.5191999 best: 2041.5191999 (148) total: 1.99s remaining: 682ms
149: learn: 2046.8384800 test: 2040.1877126 best: 2040.1877126 (149) total: 2.01s remaining: 670ms
150: learn: 2044.9957455 test: 2038.1959254 best: 2038.1959254 (150) total: 2.02s remaining: 657ms
151: learn: 2043.9453851 test: 2037.1822748 best: 2037.1822748 (151) total: 2.04s remaining: 645ms
152: learn: 2042.7677690 test: 2035.8687119 best: 2035.8687119 (152) total: 2.06s remaining: 631ms
153: learn: 2041.7548305 test: 2034.9592344 best: 2034.9592344 (153) total: 2.07s remaining: 618ms
154: learn: 2040.7966947 test: 2033.9190248 best: 2033.9190248 (154) total: 2.08s remaining: 604ms
155: learn: 2039.5781167 test: 2032.8841795 best: 2032.8841795 (155) total: 2.09s remaining: 590ms
156: learn: 2037.8722664 test: 2030.9959840 best: 2030.9959840 (156) total: 2.1s remaining: 576ms
157: learn: 2036.5441681 test: 2029.6272270 best: 2029.6272270 (157) total: 2.12s remaining: 562ms
158: learn: 2035.6253061 test: 2028.7283720 best: 2028.7283720 (158) total: 2.13s remaining: 549ms
159: learn: 2034.3489510 test: 2027.5000271 best: 2027.5000271 (159) total: 2.14s remaining: 535ms
160: learn: 2033.1879006 test: 2026.2216740 best: 2026.2216740 (160) total: 2.15s remaining: 522ms
161: learn: 2031.2149198 test: 2024.0942574 best: 2024.0942574 (161) total: 2.17s remaining: 508ms
162: learn: 2029.5746722 test: 2022.5012709 best: 2022.5012709 (162) total: 2.18s remaining: 494ms
163: learn: 2027.9259235 test: 2020.7897707 best: 2020.7897707 (163) total: 2.19s remaining: 480ms
164: learn: 2027.0108574 test: 2019.8829582 best: 2019.8829582 (164) total: 2.2s remaining: 467ms
165: learn: 2026.0963146 test: 2019.0566062 best: 2019.0566062 (165) total: 2.21s remaining: 453ms
166: learn: 2025.2596778 test: 2018.4225025 best: 2018.4225025 (166) total: 2.22s remaining: 439ms
167: learn: 2024.4129074 test: 2017.7028468 best: 2017.7028468 (167) total: 2.24s remaining: 427ms
168: learn: 2023.0097192 test: 2016.3457674 best: 2016.3457674 (168) total: 2.25s remaining: 413ms
169: learn: 2021.2982319 test: 2014.4853456 best: 2014.4853456 (169) total: 2.26s remaining: 400ms
170: learn: 2020.4662851 test: 2013.5384603 best: 2013.5384603 (170) total: 2.28s remaining: 386ms
171: learn: 2019.4773734 test: 2012.7718200 best: 2012.7718200 (171) total: 2.29s remaining: 372ms
172: learn: 2018.6015337 test: 2011.9108774 best: 2011.9108774 (172) total: 2.3s remaining: 359ms
173: learn: 2017.0385274 test: 2010.1774873 best: 2010.1774873 (173) total: 2.31s remaining: 346ms
174: learn: 2016.2445390 test: 2009.5816881 best: 2009.5816881 (174) total: 2.33s remaining: 332ms
175: learn: 2015.1120997 test: 2008.5812627 best: 2008.5812627 (175) total: 2.34s remaining: 319ms
176: learn: 2014.3425599 test: 2007.9182849 best: 2007.9182849 (176) total: 2.35s remaining: 306ms
177: learn: 2013.5234965 test: 2007.1784703 best: 2007.1784703 (177) total: 2.36s remaining: 292ms
178: learn: 2012.4704633 test: 2006.0233128 best: 2006.0233128 (178) total: 2.38s remaining: 279ms
179: learn: 2011.5059114 test: 2005.1367091 best: 2005.1367091 (179) total: 2.39s remaining: 265ms

180: learn: 2010.0814722 test: 2003.6865667 best: 2003.6865667 (180) total: 2.4s remaining: 252ms
181: learn: 2008.9607245 test: 2002.5095201 best: 2002.5095201 (181) total: 2.41s remaining: 239ms
182: learn: 2008.2122116 test: 2001.7330562 best: 2001.7330562 (182) total: 2.43s remaining: 226ms
183: learn: 2006.9728035 test: 2000.5369140 best: 2000.5369140 (183) total: 2.44s remaining: 212ms
184: learn: 2005.4699259 test: 1998.8770551 best: 1998.8770551 (184) total: 2.46s remaining: 199ms
185: learn: 2004.6817070 test: 1998.0825978 best: 1998.0825978 (185) total: 2.47s remaining: 186ms
186: learn: 2003.6851755 test: 1997.1561637 best: 1997.1561637 (186) total: 2.48s remaining: 172ms
187: learn: 2002.9401425 test: 1996.4409335 best: 1996.4409335 (187) total: 2.49s remaining: 159ms
188: learn: 2002.2651724 test: 1995.7200248 best: 1995.7200248 (188) total: 2.5s remaining: 146ms
189: learn: 2001.0902345 test: 1994.5764601 best: 1994.5764601 (189) total: 2.51s remaining: 132ms
190: learn: 2000.4154429 test: 1994.0698172 best: 1994.0698172 (190) total: 2.54s remaining: 120ms
191: learn: 1999.4031485 test: 1992.9713114 best: 1992.9713114 (191) total: 2.55s remaining: 106ms
192: learn: 1998.7382768 test: 1992.5885426 best: 1992.5885426 (192) total: 2.56s remaining: 92.9ms
193: learn: 1997.9886184 test: 1991.7835475 best: 1991.7835475 (193) total: 2.57s remaining: 79.6ms
194: learn: 1997.1593069 test: 1990.9779253 best: 1990.9779253 (194) total: 2.58s remaining: 66.3ms
195: learn: 1996.0726664 test: 1989.7616797 best: 1989.7616797 (195) total: 2.6s remaining: 53ms
196: learn: 1995.1784921 test: 1988.8826868 best: 1988.8826868 (196) total: 2.61s remaining: 39.7ms
197: learn: 1994.5403278 test: 1988.3161440 best: 1988.3161440 (197) total: 2.62s remaining: 26.5ms
198: learn: 1993.2400497 test: 1986.8861532 best: 1986.8861532 (198) total: 2.63s remaining: 13.2ms
199: learn: 1992.5678900 test: 1986.2826039 best: 1986.2826039 (199) total: 2.65s remaining: 0us

bestTest = 1986.282604

bestIteration = 199

21: loss: 1986.2826039 best: 1985.7465399 (19) total: 44.2s remaining: 2m 28s
0: learn: 6820.7590353 test: 6849.1135744 best: 6849.1135744 (0) total: 13.7ms remaining: 2.73s
1: learn: 6663.6932329 test: 6692.2640438 best: 6692.2640438 (1) total: 27.7ms remaining: 2.75s
2: learn: 6512.0428905 test: 6540.7449703 best: 6540.7449703 (2) total: 41.4ms remaining: 2.72s
3: learn: 6366.0716347 test: 6395.0569776 best: 6395.0569776 (3) total: 54.6ms remaining: 2.68s
4: learn: 6224.3254379 test: 6253.6482471 best: 6253.6482471 (4) total: 68.1ms remaining: 2.65s
5: learn: 6088.9682070 test: 6118.3477431 best: 6118.3477431 (5) total: 81.5ms remaining: 2.63s
6: learn: 5958.7347170 test: 5988.2257069 best: 5988.2257069 (6) total: 94.5ms remaining: 2.6s
7: learn: 5833.2068424 test: 5862.4829048 best: 5862.4829048 (7) total: 107ms remaining: 2.58s
8: learn: 5710.1836259 test: 5739.8734584 best: 5739.8734584 (8) total: 120ms remaining: 2.54s
9: learn: 5591.9590001 test: 5622.0324291 best: 5622.0324291 (9) total: 133ms remaining: 2.53s
10: learn: 5478.5325199 test: 5509.0158694 best: 5509.0158694 (10) total: 146ms remaining: 2.5s
11: learn: 5369.5663868 test: 5400.2246961 best: 5400.2246961 (11) total: 158ms remaining: 2.47s
12: learn: 5264.8347468 test: 5295.8427862 best: 5295.8427862 (12) total: 173ms remaining: 2.49s
13: learn: 5164.0310665 test: 5194.9372658 best: 5194.9372658 (13) total: 186ms remaining: 2.47s
14: learn: 5065.2620189 test: 5095.7946377 best: 5095.7946377 (14) total: 198ms remaining: 2.44s
15: learn: 4971.7921689 test: 5002.2088352 best: 5002.2088352 (15) total: 210ms remaining: 2.41s
16: learn: 4882.2622217 test: 4912.6905222 best: 4912.6905222 (16) total: 222ms remaining: 2.39s

16: learn: 4682.2632217 test: 4912.6905323 best: 4912.6905323 (16) total: 222ms remaining: 2.39s
17: learn: 4794.8665748 test: 4825.4412697 best: 4825.4412697 (17) total: 235ms remaining: 2.37s
18: learn: 4711.5788960 test: 4741.8394458 best: 4741.8394458 (18) total: 247ms remaining: 2.35s
19: learn: 4630.4784758 test: 4660.3737280 best: 4660.3737280 (19) total: 259ms remaining: 2.33s
20: learn: 4553.6269064 test: 4583.4623816 best: 4583.4623816 (20) total: 272ms remaining: 2.32s
21: learn: 4479.9042009 test: 4509.4704108 best: 4509.4704108 (21) total: 284ms remaining: 2.29s
22: learn: 4407.3675250 test: 4436.8220029 best: 4436.8220029 (22) total: 295ms remaining: 2.27s
23: learn: 4337.0122921 test: 4366.0020529 best: 4366.0020529 (23) total: 308ms remaining: 2.26s
24: learn: 4269.3661569 test: 4297.9088954 best: 4297.9088954 (24) total: 320ms remaining: 2.24s
25: learn: 4204.2083784 test: 4232.3359923 best: 4232.3359923 (25) total: 333ms remaining: 2.23s
26: learn: 4143.6775295 test: 4171.5170979 best: 4171.5170979 (26) total: 345ms remaining: 2.21s
27: learn: 4083.5029527 test: 4111.0318715 best: 4111.0318715 (27) total: 361ms remaining: 2.22s
28: learn: 4026.0725991 test: 4053.1166750 best: 4053.1166750 (28) total: 373ms remaining: 2.2s
29: learn: 3971.6386496 test: 3998.1672898 best: 3998.1672898 (29) total: 385ms remaining: 2.18s
30: learn: 3920.2709916 test: 3946.3423636 best: 3946.3423636 (30) total: 398ms remaining: 2.17s
31: learn: 3870.3478505 test: 3896.2182261 best: 3896.2182261 (31) total: 411ms remaining: 2.16s
32: learn: 3823.4907089 test: 3848.9369546 best: 3848.9369546 (32) total: 424ms remaining: 2.15s
33: learn: 3775.7568762 test: 3800.8330261 best: 3800.8330261 (33) total: 436ms remaining: 2.13s
34: learn: 3729.4471021 test: 3754.1991926 best: 3754.1991926 (34) total: 449ms remaining: 2.12s
35: learn: 3687.8062508 test: 3712.2174283 best: 3712.2174283 (35) total: 462ms remaining: 2.11s
36: learn: 3645.6789478 test: 3669.6338640 best: 3669.6338640 (36) total: 477ms remaining: 2.1s
37: learn: 3605.2695935 test: 3629.1523674 best: 3629.1523674 (37) total: 491ms remaining: 2.09s
38: learn: 3566.8819547 test: 3590.4754605 best: 3590.4754605 (38) total: 504ms remaining: 2.08s
39: learn: 3530.2667262 test: 3553.3766121 best: 3553.3766121 (39) total: 516ms remaining: 2.06s
40: learn: 3494.3715167 test: 3517.1717209 best: 3517.1717209 (40) total: 529ms remaining: 2.05s
41: learn: 3459.3576760 test: 3481.9329925 best: 3481.9329925 (41) total: 542ms remaining: 2.04s
42: learn: 3427.1279676 test: 3449.1618650 best: 3449.1618650 (42) total: 558ms remaining: 2.04s
43: learn: 3396.0819847 test: 3417.6578012 best: 3417.6578012 (43) total: 571ms remaining: 2.02s
44: learn: 3364.4873534 test: 3385.9468701 best: 3385.9468701 (44) total: 583ms remaining: 2.01s
45: learn: 3332.7984658 test: 3353.5529941 best: 3353.5529941 (45) total: 595ms remaining: 1.99s
46: learn: 3302.0722748 test: 3322.2053810 best: 3322.2053810 (46) total: 608ms remaining: 1.98s
47: learn: 3275.3607688 test: 3295.1954971 best: 3295.1954971 (47) total: 620ms remaining: 1.96s
48: learn: 3247.5866773 test: 3266.7386016 best: 3266.7386016 (48) total: 633ms remaining: 1.95s
49: learn: 3222.1156195 test: 3240.6740616 best: 3240.6740616 (49) total: 645ms remaining: 1.94s
50: learn: 3196.5397194 test: 3214.9626974 best: 3214.9626974 (50) total: 660ms remaining: 1.93s
51: learn: 3173.4552995 test: 3191.2676776 best: 3191.2676776 (51) total: 673ms remaining: 1.92s
52: learn: 3148.4080200 test: 3165.8790643 best: 3165.8790643 (52) total: 686ms remaining: 1.9s
53: learn: 3125.2180783 test: 3142.1669782 best: 3142.1669782 (53) total: 698ms remaining: 1.89s
54: learn: 3102.4504314 test: 3119.1265564 best: 3119.1265564 (54) total: 710ms remaining: 1.87s
55: learn: 3080.8675002 test: 3097.3957086 best: 3097.3957086 (55) total: 722ms remaining: 1.86s
56: learn: 3060.6881997 test: 3076.8055858 best: 3076.8055858 (56) total: 734ms remaining: 1.84s
57: learn: 3040.5496095 test: 3056.1078966 best: 3056.1078966 (57) total: 746ms remaining: 1.83s

58: learn: 3021.5969229 test: 3036.7325722 best: 3036.7325722 (58) total: 760ms remaining: 1.81s
59: learn: 3004.1924280 test: 3018.8844808 best: 3018.8844808 (59) total: 772ms remaining: 1.8s
60: learn: 2987.7125715 test: 3001.8417879 best: 3001.8417879 (60) total: 785ms remaining: 1.79s
61: learn: 2971.3372247 test: 2985.2058142 best: 2985.2058142 (61) total: 797ms remaining: 1.77s
62: learn: 2954.1509465 test: 2967.8680709 best: 2967.8680709 (62) total: 811ms remaining: 1.76s
63: learn: 2937.0603996 test: 2950.3742481 best: 2950.3742481 (63) total: 823ms remaining: 1.75s
64: learn: 2922.9957008 test: 2935.8329355 best: 2935.8329355 (64) total: 836ms remaining: 1.74s
65: learn: 2907.4034729 test: 2919.9089146 best: 2919.9089146 (65) total: 848ms remaining: 1.72s
66: learn: 2892.9286351 test: 2905.0177045 best: 2905.0177045 (66) total: 862ms remaining: 1.71s
67: learn: 2878.8400837 test: 2890.3822486 best: 2890.3822486 (67) total: 874ms remaining: 1.7s
68: learn: 2864.7232322 test: 2876.1181699 best: 2876.1181699 (68) total: 886ms remaining: 1.68s
69: learn: 2851.7764759 test: 2862.7753826 best: 2862.7753826 (69) total: 898ms remaining: 1.67s
70: learn: 2839.3866972 test: 2849.9253714 best: 2849.9253714 (70) total: 910ms remaining: 1.65s
71: learn: 2826.7908917 test: 2837.1809234 best: 2837.1809234 (71) total: 923ms remaining: 1.64s
72: learn: 2815.1591329 test: 2825.1510844 best: 2825.1510844 (72) total: 935ms remaining: 1.63s
73: learn: 2804.2649923 test: 2813.8937369 best: 2813.8937369 (73) total: 948ms remaining: 1.61s
74: learn: 2793.2808584 test: 2802.6077096 best: 2802.6077096 (74) total: 964ms remaining: 1.61s
75: learn: 2783.0802495 test: 2791.9753840 best: 2791.9753840 (75) total: 977ms remaining: 1.59s
76: learn: 2772.1403911 test: 2780.7680485 best: 2780.7680485 (76) total: 989ms remaining: 1.58s
77: learn: 2762.6745525 test: 2770.9755054 best: 2770.9755054 (77) total: 1s remaining: 1.57s
78: learn: 2751.6085963 test: 2759.7392281 best: 2759.7392281 (78) total: 1.01s remaining: 1.55s
79: learn: 2741.8231598 test: 2749.6722207 best: 2749.6722207 (79) total: 1.03s remaining: 1.54s
80: learn: 2733.0949899 test: 2740.5571967 best: 2740.5571967 (80) total: 1.04s remaining: 1.53s
81: learn: 2724.5164566 test: 2731.5295492 best: 2731.5295492 (81) total: 1.06s remaining: 1.52s
82: learn: 2716.3755848 test: 2722.9343006 best: 2722.9343006 (82) total: 1.07s remaining: 1.51s
83: learn: 2708.7044042 test: 2714.9412120 best: 2714.9412120 (83) total: 1.08s remaining: 1.5s
84: learn: 2701.1863716 test: 2706.9422291 best: 2706.9422291 (84) total: 1.1s remaining: 1.48s
85: learn: 2693.4725130 test: 2699.2805506 best: 2699.2805506 (85) total: 1.11s remaining: 1.47s
86: learn: 2686.2143990 test: 2691.7488434 best: 2691.7488434 (86) total: 1.12s remaining: 1.46s
87: learn: 2679.4439816 test: 2684.6683744 best: 2684.6683744 (87) total: 1.13s remaining: 1.44s
88: learn: 2672.0936891 test: 2677.2152703 best: 2677.2152703 (88) total: 1.15s remaining: 1.44s
89: learn: 2665.0938425 test: 2669.9459621 best: 2669.9459621 (89) total: 1.17s remaining: 1.43s
90: learn: 2658.3149214 test: 2663.2333870 best: 2663.2333870 (90) total: 1.18s remaining: 1.41s
91: learn: 2652.0860637 test: 2656.7087719 best: 2656.7087719 (91) total: 1.19s remaining: 1.4s
92: learn: 2645.8920989 test: 2650.3949524 best: 2650.3949524 (92) total: 1.2s remaining: 1.38s
93: learn: 2640.2055669 test: 2644.7795236 best: 2644.7795236 (93) total: 1.22s remaining: 1.37s
94: learn: 2634.5822180 test: 2638.9097419 best: 2638.9097419 (94) total: 1.23s remaining: 1.36s
95: learn: 2628.9453815 test: 2633.0594532 best: 2633.0594532 (95) total: 1.24s remaining: 1.34s
96: learn: 2622.2623601 test: 2626.2670968 best: 2626.2670968 (96) total: 1.25s remaining: 1.33s
97: learn: 2616.6478179 test: 2620.5511369 best: 2620.5511369 (97) total: 1.27s remaining: 1.32s
98: learn: 2611.2342910 test: 2614.8334932 best: 2614.8334932 (98) total: 1.28s remaining: 1.3s

99: learn: 2603.6912229 test: 2607.1639368 best: 2607.1639368 (99) total: 1.29s remaining: 1.29s
100: learn: 2598.6049790 test: 2601.6038645 best: 2601.6038645 (100) total: 1.3s remaining: 1.28s
101: learn: 2593.2126870 test: 2596.0564574 best: 2596.0564574 (101) total: 1.31s remaining: 1.26s
102: learn: 2588.1671255 test: 2590.7288714 best: 2590.7288714 (102) total: 1.33s remaining: 1.25s
103: learn: 2583.0877294 test: 2585.5655917 best: 2585.5655917 (103) total: 1.34s remaining: 1.24s
104: learn: 2578.2921154 test: 2580.5557278 best: 2580.5557278 (104) total: 1.35s remaining: 1.23s
105: learn: 2573.5676629 test: 2575.7556106 best: 2575.7556106 (105) total: 1.37s remaining: 1.21s
106: learn: 2566.7708471 test: 2568.8829212 best: 2568.8829212 (106) total: 1.38s remaining: 1.2s
107: learn: 2561.5618043 test: 2563.7194709 best: 2563.7194709 (107) total: 1.39s remaining: 1.19s
108: learn: 2556.6610658 test: 2558.6355634 best: 2558.6355634 (108) total: 1.4s remaining: 1.17s
109: learn: 2550.2673133 test: 2552.1236903 best: 2552.1236903 (109) total: 1.42s remaining: 1.16s
110: learn: 2545.9960083 test: 2547.5720253 best: 2547.5720253 (110) total: 1.43s remaining: 1.15s
111: learn: 2541.3091500 test: 2542.9972329 best: 2542.9972329 (111) total: 1.45s remaining: 1.14s
112: learn: 2536.7998715 test: 2538.5795771 best: 2538.5795771 (112) total: 1.46s remaining: 1.12s
113: learn: 2532.5022706 test: 2533.8968339 best: 2533.8968339 (113) total: 1.47s remaining: 1.11s
114: learn: 2526.6681215 test: 2527.9505892 best: 2527.9505892 (114) total: 1.49s remaining: 1.1s
115: learn: 2522.5719157 test: 2523.9592416 best: 2523.9592416 (115) total: 1.5s remaining: 1.08s
116: learn: 2518.6162376 test: 2519.7407048 best: 2519.7407048 (116) total: 1.51s remaining: 1.07s
117: learn: 2513.1571904 test: 2514.1707575 best: 2514.1707575 (117) total: 1.52s remaining: 1.06s
118: learn: 2509.1429112 test: 2509.7371374 best: 2509.7371374 (118) total: 1.54s remaining: 1.05s
119: learn: 2505.2767681 test: 2505.6784980 best: 2505.6784980 (119) total: 1.55s remaining: 1.03s
120: learn: 2501.3859798 test: 2501.7446641 best: 2501.7446641 (120) total: 1.56s remaining: 1.02s
121: learn: 2497.7001493 test: 2497.7155710 best: 2497.7155710 (121) total: 1.58s remaining: 1.01s
122: learn: 2493.8212436 test: 2493.8921750 best: 2493.8921750 (122) total: 1.59s remaining: 996ms
123: learn: 2490.2626966 test: 2490.1281897 best: 2490.1281897 (123) total: 1.6s remaining: 983ms
124: learn: 2486.7113558 test: 2486.3781938 best: 2486.3781938 (124) total: 1.62s remaining: 970ms
125: learn: 2481.5069129 test: 2481.1103640 best: 2481.1103640 (125) total: 1.63s remaining: 956ms
126: learn: 2476.6605394 test: 2476.1575586 best: 2476.1575586 (126) total: 1.64s remaining: 943ms
127: learn: 2473.2669165 test: 2472.6174648 best: 2472.6174648 (127) total: 1.66s remaining: 932ms
128: learn: 2469.9089380 test: 2469.1316761 best: 2469.1316761 (128) total: 1.67s remaining: 919ms
129: learn: 2466.6787469 test: 2465.6778678 best: 2465.6778678 (129) total: 1.68s remaining: 905ms
130: learn: 2463.4110910 test: 2462.5072139 best: 2462.5072139 (130) total: 1.69s remaining: 892ms
131: learn: 2460.1806989 test: 2458.9682719 best: 2458.9682719 (131) total: 1.71s remaining: 879ms
132: learn: 2456.9403197 test: 2455.7509530 best: 2455.7509530 (132) total: 1.72s remaining: 865ms
133: learn: 2453.9890441 test: 2452.5871712 best: 2452.5871712 (133) total: 1.73s remaining: 852ms
134: learn: 2450.6266948 test: 2449.3206196 best: 2449.3206196 (134) total: 1.75s remaining: 840ms
135: learn: 2447.5848353 test: 2446.3042463 best: 2446.3042463 (135) total: 1.76s remaining: 827ms
136: learn: 2444.5439379 test: 2443.0427166 best: 2443.0427166 (136) total: 1.77s remaining: 814ms
137: learn: 2441.3849490 test: 2439.9755101 best: 2439.9755101 (137) total: 1.78s remaining: 801ms
138: learn: 2438.4528405 test: 2436.9174906 best: 2436.9174906 (138) total: 1.79s remaining: 787ms
139: learn: 2434.1255280 test: 2432.4909889 best: 2432.4909889 (139) total: 1.8s remaining: 774ms

140: learn: 2431.3540773 test: 2429.6471095 best: 2429.6471095 (140) total: 1.82s remaining: 761ms
141: learn: 2427.3340110 test: 2425.5192227 best: 2425.5192227 (141) total: 1.83s remaining: 747ms
142: learn: 2423.4133789 test: 2421.4985730 best: 2421.4985730 (142) total: 1.85s remaining: 736ms
143: learn: 2420.5818427 test: 2418.7560455 best: 2418.7560455 (143) total: 1.86s remaining: 723ms
144: learn: 2417.9364618 test: 2416.1995334 best: 2416.1995334 (144) total: 1.87s remaining: 710ms
145: learn: 2415.1997295 test: 2413.4962961 best: 2413.4962961 (145) total: 1.88s remaining: 697ms
146: learn: 2412.6218300 test: 2410.9523135 best: 2410.9523135 (146) total: 1.9s remaining: 685ms
147: learn: 2409.8559985 test: 2407.8989115 best: 2407.8989115 (147) total: 1.91s remaining: 672ms
148: learn: 2407.3340521 test: 2405.0757093 best: 2405.0757093 (148) total: 1.93s remaining: 660ms
149: learn: 2403.6166215 test: 2401.2910375 best: 2401.2910375 (149) total: 1.94s remaining: 646ms
150: learn: 2401.1119409 test: 2398.8477797 best: 2398.8477797 (150) total: 1.95s remaining: 634ms
151: learn: 2398.6494857 test: 2396.5123876 best: 2396.5123876 (151) total: 1.97s remaining: 622ms
152: learn: 2394.8046491 test: 2392.5118091 best: 2392.5118091 (152) total: 1.98s remaining: 609ms
153: learn: 2392.2661583 test: 2389.7354025 best: 2389.7354025 (153) total: 2s remaining: 597ms
154: learn: 2389.8084887 test: 2387.0549637 best: 2387.0549637 (154) total: 2.01s remaining: 584ms
155: learn: 2385.9952946 test: 2383.1841237 best: 2383.1841237 (155) total: 2.02s remaining: 570ms
156: learn: 2383.4939173 test: 2380.7380034 best: 2380.7380034 (156) total: 2.03s remaining: 557ms
157: learn: 2381.0846940 test: 2378.1504576 best: 2378.1504576 (157) total: 2.05s remaining: 545ms
158: learn: 2377.4968526 test: 2374.5054670 best: 2374.5054670 (158) total: 2.06s remaining: 532ms
159: learn: 2375.1880780 test: 2372.1406017 best: 2372.1406017 (159) total: 2.07s remaining: 519ms
160: learn: 2372.8514226 test: 2369.5222066 best: 2369.5222066 (160) total: 2.09s remaining: 505ms
161: learn: 2370.5996659 test: 2367.3144517 best: 2367.3144517 (161) total: 2.1s remaining: 492ms
162: learn: 2367.3524005 test: 2363.9686326 best: 2363.9686326 (162) total: 2.11s remaining: 479ms
163: learn: 2365.2674159 test: 2361.9032691 best: 2361.9032691 (163) total: 2.12s remaining: 466ms
164: learn: 2362.0663704 test: 2358.6428011 best: 2358.6428011 (164) total: 2.13s remaining: 453ms
165: learn: 2359.8641082 test: 2356.4814954 best: 2356.4814954 (165) total: 2.15s remaining: 440ms
166: learn: 2356.6981439 test: 2353.2591969 best: 2353.2591969 (166) total: 2.16s remaining: 427ms
167: learn: 2354.6790249 test: 2351.3040633 best: 2351.3040633 (167) total: 2.17s remaining: 414ms
168: learn: 2352.6817711 test: 2349.2089161 best: 2349.2089161 (168) total: 2.19s remaining: 401ms
169: learn: 2350.6067642 test: 2346.9699406 best: 2346.9699406 (169) total: 2.2s remaining: 388ms
170: learn: 2348.5287492 test: 2344.6771894 best: 2344.6771894 (170) total: 2.21s remaining: 375ms
171: learn: 2346.3230157 test: 2342.3680717 best: 2342.3680717 (171) total: 2.22s remaining: 362ms
172: learn: 2344.3680996 test: 2340.1807523 best: 2340.1807523 (172) total: 2.23s remaining: 349ms
173: learn: 2342.4000705 test: 2338.2550644 best: 2338.2550644 (173) total: 2.25s remaining: 336ms
174: learn: 2340.3604596 test: 2336.2840601 best: 2336.2840601 (174) total: 2.26s remaining: 323ms
175: learn: 2338.3067620 test: 2333.8741502 best: 2333.8741502 (175) total: 2.27s remaining: 310ms
176: learn: 2335.4810568 test: 2330.9639231 best: 2330.9639231 (176) total: 2.29s remaining: 297ms
177: learn: 2332.7045410 test: 2328.0914492 best: 2328.0914492 (177) total: 2.3s remaining: 284ms
178: learn: 2330.8399060 test: 2326.0983990 best: 2326.0983990 (178) total: 2.31s remaining: 271ms
179: learn: 2328.9963349 test: 2324.3635092 best: 2324.3635092 (179) total: 2.32s remaining: 258ms
180: learn: 2327.1179832 test: 2322.2932341 best: 2322.2932341 (180) total: 2.33s remaining: 245ms
181: learn: 2325.3234974 test: 2320.4255616 best: 2320.4255616 (181) total: 2.35s remaining: 232ms

181: learn: 2323.3204074 test: 2320.4233018 best: 2320.4233018 (181) total: 2.36s remaining: 202ms
182: learn: 2323.5811065 test: 2318.5945514 best: 2318.5945514 (182) total: 2.36s remaining: 219ms
183: learn: 2321.5761114 test: 2316.2469771 best: 2316.2469771 (183) total: 2.37s remaining: 206ms
184: learn: 2319.9059199 test: 2314.6198578 best: 2314.6198578 (184) total: 2.38s remaining: 193ms
185: learn: 2317.2796405 test: 2311.8989499 best: 2311.8989499 (185) total: 2.4s remaining: 180ms
186: learn: 2315.4182939 test: 2310.0464624 best: 2310.0464624 (186) total: 2.41s remaining: 168ms
187: learn: 2313.7814909 test: 2308.3788363 best: 2308.3788363 (187) total: 2.43s remaining: 155ms
188: learn: 2312.2052833 test: 2306.8827423 best: 2306.8827423 (188) total: 2.45s remaining: 143ms
189: learn: 2310.6516908 test: 2305.4339390 best: 2305.4339390 (189) total: 2.46s remaining: 130ms
190: learn: 2308.1738275 test: 2302.8637151 best: 2302.8637151 (190) total: 2.48s remaining: 117ms
191: learn: 2306.5214366 test: 2301.2587769 best: 2301.2587769 (191) total: 2.49s remaining: 104ms
192: learn: 2304.8139829 test: 2299.4717076 best: 2299.4717076 (192) total: 2.5s remaining: 90.7ms
193: learn: 2303.2059179 test: 2297.7841862 best: 2297.7841862 (193) total: 2.52s remaining: 77.8ms
194: learn: 2301.5287789 test: 2296.0295389 best: 2296.0295389 (194) total: 2.53s remaining: 64.9ms
195: learn: 2299.0843824 test: 2293.5313495 best: 2293.5313495 (195) total: 2.54s remaining: 51.9ms
196: learn: 2297.0023281 test: 2291.3803951 best: 2291.3803951 (196) total: 2.56s remaining: 39ms
197: learn: 2295.2820591 test: 2289.7138313 best: 2289.7138313 (197) total: 2.57s remaining: 26ms
198: learn: 2293.7617077 test: 2288.0780065 best: 2288.0780065 (198) total: 2.59s remaining: 13ms
199: learn: 2292.1783487 test: 2286.5622997 best: 2286.5622997 (199) total: 2.6s remaining: 0us

bestTest = 2286.5623

bestIteration = 199

22: loss: 2286.5622997 best: 1985.7465399 (19) total: 46.8s remaining: 2m 28s
0: learn: 6448.9150301 test: 6477.8851884 best: 6477.8851884 (0) total: 14.7ms remaining: 2.92s
1: learn: 5971.0146696 test: 6000.0423505 best: 6000.0423505 (1) total: 32ms remaining: 3.17s
2: learn: 5555.2823313 test: 5583.6525361 best: 5583.6525361 (2) total: 46.8ms remaining: 3.07s
3: learn: 5181.3565742 test: 5210.9779311 best: 5210.9779311 (3) total: 59.8ms remaining: 2.93s
4: learn: 4854.6029785 test: 4885.2670766 best: 4885.2670766 (4) total: 72.6ms remaining: 2.83s
5: learn: 4567.6982232 test: 4597.4409784 best: 4597.4409784 (5) total: 85.5ms remaining: 2.77s
6: learn: 4324.2567991 test: 4353.0888750 best: 4353.0888750 (6) total: 98.1ms remaining: 2.7s
7: learn: 4104.9133034 test: 4132.0583227 best: 4132.0583227 (7) total: 110ms remaining: 2.64s
8: learn: 3917.4187676 test: 3943.5088142 best: 3943.5088142 (8) total: 123ms remaining: 2.61s
9: learn: 3748.9005280 test: 3774.8239351 best: 3774.8239351 (9) total: 136ms remaining: 2.58s
10: learn: 3605.4444353 test: 3629.7671612 best: 3629.7671612 (10) total: 148ms remaining: 2.55s
11: learn: 3476.6412856 test: 3500.6089368 best: 3500.6089368 (11) total: 161ms remaining: 2.52s
12: learn: 3370.4173798 test: 3392.9140551 best: 3392.9140551 (12) total: 173ms remaining: 2.49s
13: learn: 3264.4564049 test: 3284.7501516 best: 3284.7501516 (13) total: 186ms remaining: 2.47s
14: learn: 3174.3866166 test: 3192.7047473 best: 3192.7047473 (14) total: 202ms remaining: 2.49s
15: learn: 3100.8278367 test: 3117.8543560 best: 3117.8543560 (15) total: 220ms remaining: 2.54s
16: learn: 3028.2119484 test: 3043.9588577 best: 3043.9588577 (16) total: 234ms remaining: 2.52s
17: learn: 2968.2306601 test: 2982.3258033 best: 2982.3258033 (17) total: 246ms remaining: 2.49s

18: learn: 2912.7785268 test: 2926.3900866 best: 2926.3900866 (18) total: 260ms remaining: 2.48s
19: learn: 2867.8675260 test: 2879.8870322 best: 2879.8870322 (19) total: 273ms remaining: 2.46s
20: learn: 2822.9117641 test: 2833.9517711 best: 2833.9517711 (20) total: 286ms remaining: 2.44s
21: learn: 2786.6512090 test: 2796.7868976 best: 2796.7868976 (21) total: 298ms remaining: 2.41s
22: learn: 2752.9234195 test: 2761.5250738 best: 2761.5250738 (22) total: 310ms remaining: 2.38s
23: learn: 2725.3976446 test: 2732.8266611 best: 2732.8266611 (23) total: 324ms remaining: 2.38s
24: learn: 2699.7473943 test: 2706.3814776 best: 2706.3814776 (24) total: 337ms remaining: 2.36s
25: learn: 2676.9339049 test: 2682.4987691 best: 2682.4987691 (25) total: 350ms remaining: 2.35s
26: learn: 2655.1388104 test: 2659.1381224 best: 2659.1381224 (26) total: 363ms remaining: 2.33s
27: learn: 2635.1758662 test: 2638.7847925 best: 2638.7847925 (27) total: 376ms remaining: 2.31s
28: learn: 2608.5669294 test: 2611.7036449 best: 2611.7036449 (28) total: 388ms remaining: 2.29s
29: learn: 2589.0459703 test: 2592.3248460 best: 2592.3248460 (29) total: 401ms remaining: 2.27s
30: learn: 2573.5294022 test: 2575.7286243 best: 2575.7286243 (30) total: 419ms remaining: 2.28s
31: learn: 2558.1848156 test: 2559.7639246 best: 2559.7639246 (31) total: 432ms remaining: 2.27s
32: learn: 2543.0334683 test: 2544.7770583 best: 2544.7770583 (32) total: 445ms remaining: 2.25s
33: learn: 2529.3696133 test: 2530.9322873 best: 2530.9322873 (33) total: 458ms remaining: 2.24s
34: learn: 2510.5504554 test: 2511.6892636 best: 2511.6892636 (34) total: 470ms remaining: 2.22s
35: learn: 2498.4951124 test: 2499.0797388 best: 2499.0797388 (35) total: 483ms remaining: 2.2s
36: learn: 2486.1849444 test: 2485.6551580 best: 2485.6551580 (36) total: 496ms remaining: 2.18s
37: learn: 2474.6915339 test: 2474.4321876 best: 2474.4321876 (37) total: 508ms remaining: 2.17s
38: learn: 2464.1967756 test: 2463.6513693 best: 2463.6513693 (38) total: 523ms remaining: 2.16s
39: learn: 2454.1868130 test: 2453.2876385 best: 2453.2876385 (39) total: 535ms remaining: 2.14s
40: learn: 2443.9701857 test: 2441.9609225 best: 2441.9609225 (40) total: 548ms remaining: 2.13s
41: learn: 2429.0192948 test: 2426.8105110 best: 2426.8105110 (41) total: 560ms remaining: 2.11s
42: learn: 2419.6350681 test: 2417.8477847 best: 2417.8477847 (42) total: 573ms remaining: 2.09s
43: learn: 2411.0350547 test: 2409.5084081 best: 2409.5084081 (43) total: 585ms remaining: 2.07s
44: learn: 2398.9075276 test: 2397.0525026 best: 2397.0525026 (44) total: 598ms remaining: 2.06s
45: learn: 2390.3565495 test: 2388.4867987 best: 2388.4867987 (45) total: 614ms remaining: 2.05s
46: learn: 2382.1277050 test: 2379.7311925 best: 2379.7311925 (46) total: 627ms remaining: 2.04s
47: learn: 2373.7019266 test: 2370.8107234 best: 2370.8107234 (47) total: 640ms remaining: 2.02s
48: learn: 2366.5387662 test: 2362.6342914 best: 2362.6342914 (48) total: 652ms remaining: 2.01s
49: learn: 2359.4425347 test: 2355.2517543 best: 2355.2517543 (49) total: 665ms remaining: 2s
50: learn: 2349.1039833 test: 2344.7207684 best: 2344.7207684 (50) total: 678ms remaining: 1.98s
51: learn: 2342.8443156 test: 2338.7866189 best: 2338.7866189 (51) total: 691ms remaining: 1.97s
52: learn: 2336.6755008 test: 2332.3560871 best: 2332.3560871 (52) total: 704ms remaining: 1.95s
53: learn: 2330.7275126 test: 2326.5586041 best: 2326.5586041 (53) total: 721ms remaining: 1.95s
54: learn: 2325.2732662 test: 2321.3236355 best: 2321.3236355 (54) total: 733ms remaining: 1.93s
55: learn: 2316.9915610 test: 2312.7528584 best: 2312.7528584 (55) total: 746ms remaining: 1.92s
56: learn: 2311.3503767 test: 2306.8462092 best: 2306.8462092 (56) total: 759ms remaining: 1.9s
57: learn: 2306.1240377 test: 2301.2471613 best: 2301.2471613 (57) total: 771ms remaining: 1.89s
58: learn: 2297.4689088 test: 2292.4174121 best: 2292.4174121 (58) total: 785ms remaining: 1.88s

59: learn: 2292.9017886 test: 2287.7397597 best: 2287.7397597 (59) total: 797ms remaining: 1.86s
60: learn: 2287.9740564 test: 2283.0927624 best: 2283.0927624 (60) total: 815ms remaining: 1.86s
61: learn: 2282.7109596 test: 2277.5814826 best: 2277.5814826 (61) total: 829ms remaining: 1.84s
62: learn: 2276.9980756 test: 2270.9458666 best: 2270.9458666 (62) total: 842ms remaining: 1.83s
63: learn: 2271.2553542 test: 2265.1299300 best: 2265.1299300 (63) total: 855ms remaining: 1.82s
64: learn: 2264.8057233 test: 2258.5191735 best: 2258.5191735 (64) total: 868ms remaining: 1.8s
65: learn: 2260.4174071 test: 2254.2693341 best: 2254.2693341 (65) total: 880ms remaining: 1.79s
66: learn: 2256.3171364 test: 2250.4892294 best: 2250.4892294 (66) total: 892ms remaining: 1.77s
67: learn: 2252.1275419 test: 2245.7427603 best: 2245.7427603 (67) total: 909ms remaining: 1.76s
68: learn: 2246.9517974 test: 2240.1793045 best: 2240.1793045 (68) total: 924ms remaining: 1.75s
69: learn: 2242.8938940 test: 2235.9742845 best: 2235.9742845 (69) total: 937ms remaining: 1.74s
70: learn: 2239.3430801 test: 2232.5231379 best: 2232.5231379 (70) total: 949ms remaining: 1.72s
71: learn: 2233.8173043 test: 2226.7405488 best: 2226.7405488 (71) total: 962ms remaining: 1.71s
72: learn: 2230.4206060 test: 2223.5765238 best: 2223.5765238 (72) total: 975ms remaining: 1.7s
73: learn: 2225.4250968 test: 2218.2334351 best: 2218.2334351 (73) total: 988ms remaining: 1.68s
74: learn: 2220.4956238 test: 2213.0754352 best: 2213.0754352 (74) total: 1s remaining: 1.67s
75: learn: 2216.2659124 test: 2209.0355126 best: 2209.0355126 (75) total: 1.02s remaining: 1.66s
76: learn: 2212.2493745 test: 2205.2373109 best: 2205.2373109 (76) total: 1.03s remaining: 1.65s
77: learn: 2209.0111698 test: 2202.1754223 best: 2202.1754223 (77) total: 1.04s remaining: 1.63s
78: learn: 2204.5233155 test: 2197.4548079 best: 2197.4548079 (78) total: 1.05s remaining: 1.62s
79: learn: 2200.2441055 test: 2192.8607891 best: 2192.8607891 (79) total: 1.07s remaining: 1.6s
80: learn: 2197.2611104 test: 2189.4010080 best: 2189.4010080 (80) total: 1.08s remaining: 1.59s
81: learn: 2192.9609180 test: 2184.9792359 best: 2184.9792359 (81) total: 1.09s remaining: 1.57s
82: learn: 2190.3566410 test: 2182.4506466 best: 2182.4506466 (82) total: 1.1s remaining: 1.56s
83: learn: 2187.1140845 test: 2179.0434978 best: 2179.0434978 (83) total: 1.12s remaining: 1.54s
84: learn: 2183.4162861 test: 2175.1705012 best: 2175.1705012 (84) total: 1.13s remaining: 1.53s
85: learn: 2180.3829150 test: 2172.4157679 best: 2172.4157679 (85) total: 1.14s remaining: 1.51s
86: learn: 2177.5506614 test: 2169.6990095 best: 2169.6990095 (86) total: 1.15s remaining: 1.5s
87: learn: 2174.4590131 test: 2166.5725260 best: 2166.5725260 (87) total: 1.17s remaining: 1.48s
88: learn: 2171.6568080 test: 2163.8511752 best: 2163.8511752 (88) total: 1.18s remaining: 1.47s
89: learn: 2169.2097560 test: 2161.2348447 best: 2161.2348447 (89) total: 1.19s remaining: 1.46s
90: learn: 2166.0176188 test: 2157.8636734 best: 2157.8636734 (90) total: 1.21s remaining: 1.45s
91: learn: 2163.5991505 test: 2155.8118685 best: 2155.8118685 (91) total: 1.23s remaining: 1.44s
92: learn: 2159.7387285 test: 2151.8688648 best: 2151.8688648 (92) total: 1.24s remaining: 1.43s
93: learn: 2156.4485066 test: 2148.3112127 best: 2148.3112127 (93) total: 1.26s remaining: 1.42s
94: learn: 2153.5070728 test: 2145.5274763 best: 2145.5274763 (94) total: 1.27s remaining: 1.41s
95: learn: 2151.0018127 test: 2142.9698103 best: 2142.9698103 (95) total: 1.29s remaining: 1.4s
96: learn: 2146.9249874 test: 2138.6549836 best: 2138.6549836 (96) total: 1.3s remaining: 1.39s
97: learn: 2144.2378291 test: 2136.1738144 best: 2136.1738144 (97) total: 1.32s remaining: 1.38s
98: learn: 2141.9058468 test: 2134.1270806 best: 2134.1270806 (98) total: 1.34s remaining: 1.37s
99: learn: 2139.2869374 test: 2131.4633917 best: 2131.4633917 (99) total: 1.36s remaining: 1.36s

100: learn: 2136.7571127 test: 2129.1227745 best: 2129.1227745 (100) total: 1.37s remaining: 1.34s
101: learn: 2134.0386787 test: 2126.3896654 best: 2126.3896654 (101) total: 1.39s remaining: 1.33s
102: learn: 2131.8936607 test: 2124.1390422 best: 2124.1390422 (102) total: 1.41s remaining: 1.32s
103: learn: 2129.8613936 test: 2121.8305901 best: 2121.8305901 (103) total: 1.42s remaining: 1.31s
104: learn: 2126.7129939 test: 2118.7484108 best: 2118.7484108 (104) total: 1.44s remaining: 1.3s
105: learn: 2124.6490564 test: 2116.8229665 best: 2116.8229665 (105) total: 1.45s remaining: 1.28s
106: learn: 2122.7397543 test: 2114.9768435 best: 2114.9768435 (106) total: 1.46s remaining: 1.27s
107: learn: 2119.9778739 test: 2111.9855067 best: 2111.9855067 (107) total: 1.47s remaining: 1.25s
108: learn: 2118.1846756 test: 2110.5659060 best: 2110.5659060 (108) total: 1.48s remaining: 1.24s
109: learn: 2116.4022425 test: 2108.6386247 best: 2108.6386247 (109) total: 1.5s remaining: 1.22s
110: learn: 2113.4320816 test: 2105.6942120 best: 2105.6942120 (110) total: 1.51s remaining: 1.21s
111: learn: 2110.4623700 test: 2102.5974335 best: 2102.5974335 (111) total: 1.52s remaining: 1.2s
112: learn: 2107.9161568 test: 2099.8394154 best: 2099.8394154 (112) total: 1.53s remaining: 1.18s
113: learn: 2106.1790467 test: 2098.4284628 best: 2098.4284628 (113) total: 1.55s remaining: 1.17s
114: learn: 2104.3507230 test: 2096.7015584 best: 2096.7015584 (114) total: 1.56s remaining: 1.15s
115: learn: 2102.4206938 test: 2094.7647695 best: 2094.7647695 (115) total: 1.57s remaining: 1.14s
116: learn: 2100.7158048 test: 2093.3662001 best: 2093.3662001 (116) total: 1.59s remaining: 1.13s
117: learn: 2098.1885182 test: 2090.6348287 best: 2090.6348287 (117) total: 1.6s remaining: 1.11s
118: learn: 2095.6976622 test: 2087.9370129 best: 2087.9370129 (118) total: 1.62s remaining: 1.1s
119: learn: 2093.3112968 test: 2085.6116698 best: 2085.6116698 (119) total: 1.63s remaining: 1.09s
120: learn: 2091.8614688 test: 2084.1683903 best: 2084.1683903 (120) total: 1.64s remaining: 1.07s
121: learn: 2090.2897799 test: 2082.4529281 best: 2082.4529281 (121) total: 1.65s remaining: 1.06s
122: learn: 2088.4473763 test: 2080.7263736 best: 2080.7263736 (122) total: 1.67s remaining: 1.04s
123: learn: 2086.2821214 test: 2078.2182635 best: 2078.2182635 (123) total: 1.68s remaining: 1.03s
124: learn: 2083.6144993 test: 2075.5943503 best: 2075.5943503 (124) total: 1.69s remaining: 1.01s
125: learn: 2081.8495402 test: 2073.7632686 best: 2073.7632686 (125) total: 1.71s remaining: 1s
126: learn: 2080.4117838 test: 2072.3882861 best: 2072.3882861 (126) total: 1.72s remaining: 988ms
127: learn: 2078.8873166 test: 2070.9094295 best: 2070.9094295 (127) total: 1.73s remaining: 974ms
128: learn: 2077.3550649 test: 2069.4637289 best: 2069.4637289 (128) total: 1.74s remaining: 960ms
129: learn: 2076.0825798 test: 2068.4482856 best: 2068.4482856 (129) total: 1.75s remaining: 945ms
130: learn: 2074.1953298 test: 2066.8935919 best: 2066.8935919 (130) total: 1.77s remaining: 931ms
131: learn: 2072.8195411 test: 2065.7610483 best: 2065.7610483 (131) total: 1.78s remaining: 917ms
132: learn: 2070.6866336 test: 2063.4517481 best: 2063.4517481 (132) total: 1.79s remaining: 903ms
133: learn: 2068.7516217 test: 2061.3504341 best: 2061.3504341 (133) total: 1.81s remaining: 891ms
134: learn: 2066.5231430 test: 2059.1614979 best: 2059.1614979 (134) total: 1.82s remaining: 878ms
135: learn: 2064.6248146 test: 2057.3164684 best: 2057.3164684 (135) total: 1.83s remaining: 864ms
136: learn: 2063.2186030 test: 2055.7604902 best: 2055.7604902 (136) total: 1.85s remaining: 849ms
137: learn: 2061.1846136 test: 2053.5337312 best: 2053.5337312 (137) total: 1.86s remaining: 835ms
138: learn: 2059.9289373 test: 2052.3382632 best: 2052.3382632 (138) total: 1.87s remaining: 821ms
139: learn: 2058.4805042 test: 2050.7700857 best: 2050.7700857 (139) total: 1.88s remaining: 807ms
140: learn: 2057.3412106 test: 2049.5181528 best: 2049.5181528 (140) total: 1.9s remaining: 795ms
141: learn: 2056.1422378 test: 2048.3344478 best: 2048.3344478 (141) total: 1.91s remaining: 781ms

142: learn: 2054.7424220 test: 2047.2274845 best: 2047.2274845 (142) total: 1.92s remaining: 766ms
143: learn: 2052.7862055 test: 2045.1864648 best: 2045.1864648 (143) total: 1.94s remaining: 753ms
144: learn: 2051.3653067 test: 2043.9283829 best: 2043.9283829 (144) total: 1.95s remaining: 740ms
145: learn: 2049.7640816 test: 2042.3229378 best: 2042.3229378 (145) total: 1.96s remaining: 726ms
146: learn: 2048.0985913 test: 2040.4885000 best: 2040.4885000 (146) total: 1.98s remaining: 712ms
147: learn: 2046.9769118 test: 2039.3440347 best: 2039.3440347 (147) total: 1.99s remaining: 699ms
148: learn: 2045.9587553 test: 2038.5443454 best: 2038.5443454 (148) total: 2s remaining: 686ms
149: learn: 2044.6785996 test: 2037.1442938 best: 2037.1442938 (149) total: 2.02s remaining: 672ms
150: learn: 2043.2600044 test: 2035.6298255 best: 2035.6298255 (150) total: 2.03s remaining: 658ms
151: learn: 2041.4289103 test: 2033.8431783 best: 2033.8431783 (151) total: 2.04s remaining: 644ms
152: learn: 2040.2971528 test: 2032.6258325 best: 2032.6258325 (152) total: 2.05s remaining: 630ms
153: learn: 2038.6216057 test: 2030.8051751 best: 2030.8051751 (153) total: 2.06s remaining: 616ms
154: learn: 2037.5688354 test: 2029.9758124 best: 2029.9758124 (154) total: 2.08s remaining: 603ms
155: learn: 2035.8825535 test: 2028.2238210 best: 2028.2238210 (155) total: 2.09s remaining: 589ms
156: learn: 2034.9318421 test: 2027.4855938 best: 2027.4855938 (156) total: 2.1s remaining: 577ms
157: learn: 2033.8285094 test: 2026.2268356 best: 2026.2268356 (157) total: 2.12s remaining: 563ms
158: learn: 2032.6284441 test: 2024.9139967 best: 2024.9139967 (158) total: 2.13s remaining: 549ms
159: learn: 2031.4708363 test: 2023.9054927 best: 2023.9054927 (159) total: 2.14s remaining: 536ms
160: learn: 2030.4445223 test: 2022.8929493 best: 2022.8929493 (160) total: 2.15s remaining: 522ms
161: learn: 2029.0995999 test: 2021.5028894 best: 2021.5028894 (161) total: 2.17s remaining: 508ms
162: learn: 2028.1325463 test: 2020.5760073 best: 2020.5760073 (162) total: 2.18s remaining: 495ms
163: learn: 2027.0640074 test: 2019.5374692 best: 2019.5374692 (163) total: 2.19s remaining: 481ms
164: learn: 2026.2310348 test: 2018.5228640 best: 2018.5228640 (164) total: 2.21s remaining: 468ms
165: learn: 2025.2786035 test: 2017.6784136 best: 2017.6784136 (165) total: 2.22s remaining: 454ms
166: learn: 2024.0076222 test: 2016.4540188 best: 2016.4540188 (166) total: 2.23s remaining: 441ms
167: learn: 2022.9115634 test: 2015.3652659 best: 2015.3652659 (167) total: 2.24s remaining: 427ms
168: learn: 2021.4342445 test: 2013.8589507 best: 2013.8589507 (168) total: 2.25s remaining: 414ms
169: learn: 2020.5340774 test: 2013.0225665 best: 2013.0225665 (169) total: 2.27s remaining: 400ms
170: learn: 2019.7181180 test: 2012.2978601 best: 2012.2978601 (170) total: 2.28s remaining: 387ms
171: learn: 2018.6547463 test: 2011.4038799 best: 2011.4038799 (171) total: 2.3s remaining: 374ms
172: learn: 2017.3677863 test: 2010.0464780 best: 2010.0464780 (172) total: 2.31s remaining: 360ms
173: learn: 2015.8485456 test: 2008.5737627 best: 2008.5737627 (173) total: 2.32s remaining: 347ms
174: learn: 2015.0531158 test: 2007.9090168 best: 2007.9090168 (174) total: 2.33s remaining: 334ms
175: learn: 2014.2341135 test: 2007.2908890 best: 2007.2908890 (175) total: 2.35s remaining: 320ms
176: learn: 2012.7869608 test: 2005.6964138 best: 2005.6964138 (176) total: 2.36s remaining: 307ms
177: learn: 2011.9220876 test: 2004.8456149 best: 2004.8456149 (177) total: 2.37s remaining: 294ms
178: learn: 2010.5196432 test: 2003.5575218 best: 2003.5575218 (178) total: 2.39s remaining: 281ms
179: learn: 2009.5248460 test: 2002.6320723 best: 2002.6320723 (179) total: 2.41s remaining: 267ms
180: learn: 2008.6988879 test: 2001.8391956 best: 2001.8391956 (180) total: 2.42s remaining: 254ms
181: learn: 2007.5589684 test: 2000.8330332 best: 2000.8330332 (181) total: 2.43s remaining: 240ms
182: learn: 2006.8365465 test: 2000.1511307 best: 2000.1511307 (182) total: 2.44s remaining: 227ms

183: learn: 2006.1072708 test: 1999.4433472 best: 1999.4433472 (183) total: 2.45s remaining: 213ms
184: learn: 2005.0761539 test: 1998.3108120 best: 1998.3108120 (184) total: 2.47s remaining: 200ms
185: learn: 2003.8028820 test: 1997.0074593 best: 1997.0074593 (185) total: 2.48s remaining: 187ms
186: learn: 2003.0562681 test: 1996.3325341 best: 1996.3325341 (186) total: 2.5s remaining: 174ms
187: learn: 2002.0877765 test: 1995.5321436 best: 1995.5321436 (187) total: 2.51s remaining: 160ms
188: learn: 2001.4221395 test: 1994.8228641 best: 1994.8228641 (188) total: 2.52s remaining: 147ms
189: learn: 2000.6263925 test: 1994.0509335 best: 1994.0509335 (189) total: 2.53s remaining: 133ms
190: learn: 1999.7769267 test: 1993.3456066 best: 1993.3456066 (190) total: 2.54s remaining: 120ms
191: learn: 1999.0840478 test: 1992.6731051 best: 1992.6731051 (191) total: 2.56s remaining: 107ms
192: learn: 1998.0079388 test: 1991.6925371 best: 1991.6925371 (192) total: 2.57s remaining: 93.2ms
193: learn: 1997.3792603 test: 1991.0984088 best: 1991.0984088 (193) total: 2.58s remaining: 79.8ms
194: learn: 1996.0379567 test: 1989.6126921 best: 1989.6126921 (194) total: 2.6s remaining: 66.5ms
195: learn: 1995.2984716 test: 1988.8198864 best: 1988.8198864 (195) total: 2.61s remaining: 53.2ms
196: learn: 1994.6310562 test: 1988.1558236 best: 1988.1558236 (196) total: 2.62s remaining: 39.9ms
197: learn: 1993.7503114 test: 1987.2246753 best: 1987.2246753 (197) total: 2.63s remaining: 26.6ms
198: learn: 1993.1190265 test: 1986.9777562 best: 1986.9777562 (198) total: 2.64s remaining: 13.3ms
199: learn: 1991.9811897 test: 1985.8747381 best: 1985.8747381 (199) total: 2.65s remaining: 0us

bestTest = 1985.874738

bestIteration = 199

23: loss: 1985.8747381 best: 1985.7465399 (19) total: 49.5s remaining: 2m 28s
0: learn: 6809.5436209 test: 6837.6474412 best: 6837.6474412 (0) total: 21.2ms remaining: 2.1s
1: learn: 6643.1117314 test: 6670.8624882 best: 6670.8624882 (1) total: 38.2ms remaining: 1.87s
2: learn: 6482.7512816 test: 6510.6368635 best: 6510.6368635 (2) total: 55.1ms remaining: 1.78s
3: learn: 6329.2980269 test: 6357.5339551 best: 6357.5339551 (3) total: 71ms remaining: 1.7s
4: learn: 6179.7964879 test: 6208.2334528 best: 6208.2334528 (4) total: 88.5ms remaining: 1.68s
5: learn: 6033.7609502 test: 6062.2487252 best: 6062.2487252 (5) total: 105ms remaining: 1.64s
6: learn: 5893.8480464 test: 5922.4307237 best: 5922.4307237 (6) total: 124ms remaining: 1.65s
7: learn: 5758.4582888 test: 5786.7789202 best: 5786.7789202 (7) total: 140ms remaining: 1.61s
8: learn: 5626.8441414 test: 5654.9504927 best: 5654.9504927 (8) total: 156ms remaining: 1.58s
9: learn: 5501.4571187 test: 5529.5750570 best: 5529.5750570 (9) total: 172ms remaining: 1.55s
10: learn: 5380.0395024 test: 5408.1335869 best: 5408.1335869 (10) total: 188ms remaining: 1.52s
11: learn: 5262.5060481 test: 5290.6318421 best: 5290.6318421 (11) total: 204ms remaining: 1.5s
12: learn: 5149.0214802 test: 5177.0380816 best: 5177.0380816 (12) total: 225ms remaining: 1.5s
13: learn: 5039.7075252 test: 5067.6470681 best: 5067.6470681 (13) total: 241ms remaining: 1.48s
14: learn: 4934.2497318 test: 4962.1313163 best: 4962.1313163 (14) total: 257ms remaining: 1.46s
15: learn: 4832.7964082 test: 4860.3312628 best: 4860.3312628 (15) total: 274ms remaining: 1.44s
16: learn: 4734.2051334 test: 4761.4610309 best: 4761.4610309 (16) total: 293ms remaining: 1.43s
17: learn: 4639.7943333 test: 4666.6503436 best: 4666.6503436 (17) total: 311ms remaining: 1.42s
18: learn: 4549.7324254 test: 4576.2852243 best: 4576.2852243 (18) total: 328ms remaining: 1.4s

19: learn: 4462.0361731 test: 4488.4438064 best: 4488.4438064 (19) total: 345ms remaining: 1.38s
20: learn: 4376.6600626 test: 4402.6956412 best: 4402.6956412 (20) total: 360ms remaining: 1.35s
21: learn: 4294.7513536 test: 4320.4346537 best: 4320.4346537 (21) total: 376ms remaining: 1.33s
22: learn: 4214.3854330 test: 4240.1250143 best: 4240.1250143 (22) total: 392ms remaining: 1.31s
23: learn: 4137.5689638 test: 4163.2685760 best: 4163.2685760 (23) total: 408ms remaining: 1.29s
24: learn: 4064.7251716 test: 4090.0152853 best: 4090.0152853 (24) total: 428ms remaining: 1.28s
25: learn: 3993.4596386 test: 4018.2096185 best: 4018.2096185 (25) total: 443ms remaining: 1.26s
26: learn: 3924.2440920 test: 3948.8695344 best: 3948.8695344 (26) total: 459ms remaining: 1.24s
27: learn: 3860.7055233 test: 3884.8791066 best: 3884.8791066 (27) total: 474ms remaining: 1.22s
28: learn: 3797.3621877 test: 3821.0887194 best: 3821.0887194 (28) total: 490ms remaining: 1.2s
29: learn: 3736.5468942 test: 3759.7242522 best: 3759.7242522 (29) total: 506ms remaining: 1.18s
30: learn: 3677.7658897 test: 3700.7424619 best: 3700.7424619 (30) total: 524ms remaining: 1.17s
31: learn: 3620.6391965 test: 3643.1458438 best: 3643.1458438 (31) total: 540ms remaining: 1.15s
32: learn: 3567.6358792 test: 3589.8519299 best: 3589.8519299 (32) total: 556ms remaining: 1.13s
33: learn: 3515.6278870 test: 3537.3638811 best: 3537.3638811 (33) total: 572ms remaining: 1.11s
34: learn: 3465.5702900 test: 3486.4659652 best: 3486.4659652 (34) total: 587ms remaining: 1.09s
35: learn: 3417.5386382 test: 3438.0705880 best: 3438.0705880 (35) total: 603ms remaining: 1.07s
36: learn: 3370.9293181 test: 3390.9599745 best: 3390.9599745 (36) total: 624ms remaining: 1.06s
37: learn: 3327.5411365 test: 3347.2833292 best: 3347.2833292 (37) total: 640ms remaining: 1.04s
38: learn: 3283.4335318 test: 3302.5363793 best: 3302.5363793 (38) total: 656ms remaining: 1.02s
39: learn: 3242.5505373 test: 3260.8766818 best: 3260.8766818 (39) total: 672ms remaining: 1.01s
40: learn: 3203.6210525 test: 3221.6884657 best: 3221.6884657 (40) total: 688ms remaining: 991ms
41: learn: 3164.9664145 test: 3182.4728929 best: 3182.4728929 (41) total: 704ms remaining: 972ms
42: learn: 3130.1520150 test: 3147.2203190 best: 3147.2203190 (42) total: 721ms remaining: 956ms
43: learn: 3095.8019919 test: 3112.2842404 best: 3112.2842404 (43) total: 738ms remaining: 939ms
44: learn: 3062.6213283 test: 3078.5414012 best: 3078.5414012 (44) total: 754ms remaining: 922ms
45: learn: 3030.3902621 test: 3045.7332576 best: 3045.7332576 (45) total: 770ms remaining: 904ms
46: learn: 3000.2522052 test: 3015.2866081 best: 3015.2866081 (46) total: 785ms remaining: 885ms
47: learn: 2970.3621801 test: 2985.0240954 best: 2985.0240954 (47) total: 800ms remaining: 867ms
48: learn: 2942.0492102 test: 2956.3582460 best: 2956.3582460 (48) total: 822ms remaining: 855ms
49: learn: 2914.5877472 test: 2928.7459760 best: 2928.7459760 (49) total: 838ms remaining: 838ms
50: learn: 2889.0581177 test: 2902.9564693 best: 2902.9564693 (50) total: 853ms remaining: 820ms
51: learn: 2863.1723592 test: 2876.4009070 best: 2876.4009070 (51) total: 868ms remaining: 802ms
52: learn: 2838.6357406 test: 2851.3077074 best: 2851.3077074 (52) total: 884ms remaining: 784ms
53: learn: 2816.1139158 test: 2828.5211819 best: 2828.5211819 (53) total: 900ms remaining: 766ms
54: learn: 2793.6262245 test: 2805.5275975 best: 2805.5275975 (54) total: 921ms remaining: 754ms
55: learn: 2772.2968010 test: 2783.4645556 best: 2783.4645556 (55) total: 937ms remaining: 736ms
56: learn: 2751.4282615 test: 2762.0717186 best: 2762.0717186 (56) total: 955ms remaining: 720ms
57: learn: 2731.7104472 test: 2742.1826450 best: 2742.1826450 (57) total: 970ms remaining: 703ms
58: learn: 2711.8129020 test: 2721.7450743 best: 2721.7450743 (58) total: 987ms remaining: 686ms
59: learn: 2692.8276263 test: 2702.2178506 best: 2702.2178506 (59) total: 1s remaining: 669ms

60: learn: 2674.2908486 test: 2683.1293619 best: 2683.1293619 (60) total: 1.02s remaining: 654ms
61: learn: 2657.3339415 test: 2665.9161250 best: 2665.9161250 (61) total: 1.04s remaining: 637ms
62: learn: 2639.6337824 test: 2647.8105123 best: 2647.8105123 (62) total: 1.05s remaining: 620ms
63: learn: 2624.1273547 test: 2632.0608631 best: 2632.0608631 (63) total: 1.07s remaining: 602ms
64: learn: 2608.7951943 test: 2616.1480349 best: 2616.1480349 (64) total: 1.09s remaining: 585ms
65: learn: 2594.3698991 test: 2601.3002269 best: 2601.3002269 (65) total: 1.1s remaining: 568ms
66: learn: 2579.5937092 test: 2586.1045647 best: 2586.1045647 (66) total: 1.12s remaining: 551ms
67: learn: 2565.9114045 test: 2572.0100452 best: 2572.0100452 (67) total: 1.13s remaining: 534ms
68: learn: 2552.9631051 test: 2558.9482617 best: 2558.9482617 (68) total: 1.15s remaining: 516ms
69: learn: 2538.5929723 test: 2543.9858850 best: 2543.9858850 (69) total: 1.16s remaining: 499ms
70: learn: 2525.9742446 test: 2530.8853132 best: 2530.8853132 (70) total: 1.18s remaining: 482ms
71: learn: 2513.6404566 test: 2518.1589543 best: 2518.1589543 (71) total: 1.2s remaining: 465ms
72: learn: 2501.9664506 test: 2506.2559393 best: 2506.2559393 (72) total: 1.22s remaining: 450ms
73: learn: 2489.7820444 test: 2493.7079504 best: 2493.7079504 (73) total: 1.23s remaining: 433ms
74: learn: 2478.3013161 test: 2481.6790992 best: 2481.6790992 (74) total: 1.25s remaining: 415ms
75: learn: 2467.6277766 test: 2470.6768072 best: 2470.6768072 (75) total: 1.26s remaining: 398ms
76: learn: 2457.4968647 test: 2460.3247993 best: 2460.3247993 (76) total: 1.27s remaining: 381ms
77: learn: 2447.6262220 test: 2450.0713037 best: 2450.0713037 (77) total: 1.29s remaining: 364ms
78: learn: 2437.9303337 test: 2440.2123996 best: 2440.2123996 (78) total: 1.31s remaining: 348ms
79: learn: 2427.6020421 test: 2429.5205245 best: 2429.5205245 (79) total: 1.33s remaining: 332ms
80: learn: 2418.6269535 test: 2420.2197851 best: 2420.2197851 (80) total: 1.34s remaining: 315ms
81: learn: 2409.2474944 test: 2410.4794844 best: 2410.4794844 (81) total: 1.36s remaining: 298ms
82: learn: 2400.0400311 test: 2400.8708874 best: 2400.8708874 (82) total: 1.37s remaining: 281ms
83: learn: 2391.6530213 test: 2392.3009263 best: 2392.3009263 (83) total: 1.39s remaining: 264ms
84: learn: 2382.9500129 test: 2383.2570761 best: 2383.2570761 (84) total: 1.4s remaining: 247ms
85: learn: 2374.8391890 test: 2374.8615140 best: 2374.8615140 (85) total: 1.42s remaining: 231ms
86: learn: 2367.2324936 test: 2367.0885077 best: 2367.0885077 (86) total: 1.43s remaining: 214ms
87: learn: 2359.8306426 test: 2359.5035696 best: 2359.5035696 (87) total: 1.45s remaining: 198ms
88: learn: 2351.5600322 test: 2350.9458301 best: 2350.9458301 (88) total: 1.47s remaining: 181ms
89: learn: 2344.6056361 test: 2343.6224882 best: 2343.6224882 (89) total: 1.48s remaining: 164ms
90: learn: 2337.8216522 test: 2336.5768686 best: 2336.5768686 (90) total: 1.5s remaining: 148ms
91: learn: 2331.0063864 test: 2329.2742011 best: 2329.2742011 (91) total: 1.51s remaining: 132ms
92: learn: 2324.8835306 test: 2322.8886330 best: 2322.8886330 (92) total: 1.53s remaining: 115ms
93: learn: 2318.5313166 test: 2316.2717864 best: 2316.2717864 (93) total: 1.54s remaining: 98.5ms
94: learn: 2312.6178311 test: 2310.3509869 best: 2310.3509869 (94) total: 1.56s remaining: 82ms
95: learn: 2306.8142708 test: 2304.3649677 best: 2304.3649677 (95) total: 1.57s remaining: 65.6ms
96: learn: 2301.1449027 test: 2298.5183803 best: 2298.5183803 (96) total: 1.59s remaining: 49.2ms
97: learn: 2295.6850511 test: 2292.7863732 best: 2292.7863732 (97) total: 1.61s remaining: 32.9ms
98: learn: 2290.6804248 test: 2287.6048710 best: 2287.6048710 (98) total: 1.63s remaining: 16.4ms
99: learn: 2285.5564138 test: 2282.1787172 best: 2282.1787172 (99) total: 1.64s remaining: 0us

bestIteration = 99

24: loss: 2282.1787172 best: 1985.7465399 (19) total: 51.2s remaining: 2m 25s
0: learn: 6410.7002914 test: 6438.8099240 best: 6438.8099240 (0) total: 20.8ms remaining: 2.06s
1: learn: 5902.7952903 test: 5929.5795235 best: 5929.5795235 (1) total: 39.9ms remaining: 1.95s
2: learn: 5454.8146524 test: 5481.8310286 best: 5481.8310286 (2) total: 59.1ms remaining: 1.91s
3: learn: 5062.6442382 test: 5090.1662277 best: 5090.1662277 (3) total: 79.4ms remaining: 1.9s
4: learn: 4707.5209539 test: 4734.4839889 best: 4734.4839889 (4) total: 95.9ms remaining: 1.82s
5: learn: 4396.1901620 test: 4423.1035336 best: 4423.1035336 (5) total: 111ms remaining: 1.75s
6: learn: 4126.1012641 test: 4152.1290640 best: 4152.1290640 (6) total: 127ms remaining: 1.69s
7: learn: 3885.0263934 test: 3910.0401688 best: 3910.0401688 (7) total: 144ms remaining: 1.66s
8: learn: 3673.2312320 test: 3696.3789374 best: 3696.3789374 (8) total: 163ms remaining: 1.65s
9: learn: 3488.7229255 test: 3510.4703354 best: 3510.4703354 (9) total: 179ms remaining: 1.61s
10: learn: 3330.1552594 test: 3350.9725460 best: 3350.9725460 (10) total: 195ms remaining: 1.58s
11: learn: 3189.2592366 test: 3209.0145868 best: 3209.0145868 (11) total: 212ms remaining: 1.55s
12: learn: 3072.4336896 test: 3090.3537804 best: 3090.3537804 (12) total: 229ms remaining: 1.53s
13: learn: 2961.9218783 test: 2978.2649966 best: 2978.2649966 (13) total: 245ms remaining: 1.51s
14: learn: 2871.2653104 test: 2885.9652569 best: 2885.9652569 (14) total: 262ms remaining: 1.49s
15: learn: 2792.1267768 test: 2804.4028556 best: 2804.4028556 (15) total: 279ms remaining: 1.46s
16: learn: 2723.6213679 test: 2734.9924737 best: 2734.9924737 (16) total: 295ms remaining: 1.44s
17: learn: 2663.2893574 test: 2672.6224671 best: 2672.6224671 (17) total: 310ms remaining: 1.41s
18: learn: 2609.2515472 test: 2617.9037753 best: 2617.9037753 (18) total: 328ms remaining: 1.4s
19: learn: 2562.8986852 test: 2570.7675832 best: 2570.7675832 (19) total: 344ms remaining: 1.38s
20: learn: 2516.1650643 test: 2522.4436697 best: 2522.4436697 (20) total: 362ms remaining: 1.36s
21: learn: 2476.7567057 test: 2481.6437757 best: 2481.6437757 (21) total: 378ms remaining: 1.34s
22: learn: 2440.5887650 test: 2444.4174668 best: 2444.4174668 (22) total: 394ms remaining: 1.32s
23: learn: 2407.2681286 test: 2409.7627690 best: 2409.7627690 (23) total: 411ms remaining: 1.3s
24: learn: 2378.6996139 test: 2380.1340426 best: 2380.1340426 (24) total: 426ms remaining: 1.28s
25: learn: 2354.8450164 test: 2355.0339995 best: 2355.0339995 (25) total: 443ms remaining: 1.26s
26: learn: 2330.0353599 test: 2329.6667544 best: 2329.6667544 (26) total: 462ms remaining: 1.25s
27: learn: 2309.0910012 test: 2308.5979769 best: 2308.5979769 (27) total: 479ms remaining: 1.23s
28: learn: 2290.0826322 test: 2289.2714252 best: 2289.2714252 (28) total: 495ms remaining: 1.21s
29: learn: 2271.4259131 test: 2269.4598699 best: 2269.4598699 (29) total: 510ms remaining: 1.19s
30: learn: 2255.3850230 test: 2252.7678494 best: 2252.7678494 (30) total: 526ms remaining: 1.17s
31: learn: 2241.5113533 test: 2238.3908987 best: 2238.3908987 (31) total: 541ms remaining: 1.15s
32: learn: 2226.5085142 test: 2222.9887692 best: 2222.9887692 (32) total: 560ms remaining: 1.14s
33: learn: 2213.2580396 test: 2208.9328457 best: 2208.9328457 (33) total: 576ms remaining: 1.12s
34: learn: 2200.2336010 test: 2194.6687100 best: 2194.6687100 (34) total: 592ms remaining: 1.1s
35: learn: 2188.3193050 test: 2182.5677304 best: 2182.5677304 (35) total: 607ms remaining: 1.08s
36: learn: 2177.6710916 test: 2171.9547858 best: 2171.9547858 (36) total: 623ms remaining: 1.06s
37: learn: 2167.7939929 test: 2162.0573947 best: 2162.0573947 (37) total: 653ms remaining: 1.06s

38: learn: 2158.5079355 test: 2152.4209399 best: 2152.4209399 (38) total: 670ms remaining: 1.05s
39: learn: 2151.2025819 test: 2145.1151674 best: 2145.1151674 (39) total: 686ms remaining: 1.03s
40: learn: 2141.7877353 test: 2134.6132348 best: 2134.6132348 (40) total: 702ms remaining: 1.01s
41: learn: 2133.2465280 test: 2126.0103867 best: 2126.0103867 (41) total: 717ms remaining: 990ms
42: learn: 2124.1686133 test: 2116.9180295 best: 2116.9180295 (42) total: 752ms remaining: 997ms
43: learn: 2116.3794342 test: 2109.1798264 best: 2109.1798264 (43) total: 768ms remaining: 978ms
44: learn: 2108.2574211 test: 2101.1254463 best: 2101.1254463 (44) total: 785ms remaining: 959ms
45: learn: 2102.3894445 test: 2095.4539095 best: 2095.4539095 (45) total: 801ms remaining: 940ms
46: learn: 2094.6828893 test: 2087.8591150 best: 2087.8591150 (46) total: 817ms remaining: 921ms
47: learn: 2089.2821348 test: 2081.9196873 best: 2081.9196873 (47) total: 832ms remaining: 902ms
48: learn: 2081.7459438 test: 2074.4776311 best: 2074.4776311 (48) total: 853ms remaining: 888ms
49: learn: 2076.3875031 test: 2068.8735284 best: 2068.8735284 (49) total: 868ms remaining: 868ms
50: learn: 2069.4031950 test: 2061.5172554 best: 2061.5172554 (50) total: 886ms remaining: 851ms
51: learn: 2062.7816129 test: 2054.7362645 best: 2054.7362645 (51) total: 903ms remaining: 834ms
52: learn: 2054.1031344 test: 2045.5190623 best: 2045.5190623 (52) total: 920ms remaining: 816ms
53: learn: 2048.9030141 test: 2040.5944708 best: 2040.5944708 (53) total: 934ms remaining: 796ms
54: learn: 2044.0609076 test: 2036.0412415 best: 2036.0412415 (54) total: 951ms remaining: 778ms
55: learn: 2037.4816010 test: 2029.1681893 best: 2029.1681893 (55) total: 966ms remaining: 759ms
56: learn: 2032.2811750 test: 2023.5086048 best: 2023.5086048 (56) total: 982ms remaining: 741ms
57: learn: 2028.4585084 test: 2020.0215866 best: 2020.0215866 (57) total: 1s remaining: 725ms
58: learn: 2024.8146404 test: 2016.4521961 best: 2016.4521961 (58) total: 1.01s remaining: 705ms
59: learn: 2019.8511997 test: 2011.5840403 best: 2011.5840403 (59) total: 1.05s remaining: 700ms
60: learn: 2014.4676840 test: 2005.8798946 best: 2005.8798946 (60) total: 1.07s remaining: 683ms
61: learn: 2010.6874366 test: 2002.4346584 best: 2002.4346584 (61) total: 1.08s remaining: 663ms
62: learn: 2005.8819874 test: 1997.5465520 best: 1997.5465520 (62) total: 1.15s remaining: 675ms
63: learn: 2002.5590069 test: 1994.8848663 best: 1994.8848663 (63) total: 1.17s remaining: 656ms
64: learn: 1999.4950993 test: 1992.2223820 best: 1992.2223820 (64) total: 1.19s remaining: 639ms
65: learn: 1994.3996430 test: 1986.7259786 best: 1986.7259786 (65) total: 1.2s remaining: 620ms
66: learn: 1991.1889753 test: 1983.1083790 best: 1983.1083790 (66) total: 1.25s remaining: 613ms
67: learn: 1986.8023696 test: 1978.6007775 best: 1978.6007775 (67) total: 1.26s remaining: 594ms
68: learn: 1983.9885036 test: 1975.4805343 best: 1975.4805343 (68) total: 1.28s remaining: 574ms
69: learn: 1979.1476171 test: 1970.5674138 best: 1970.5674138 (69) total: 1.29s remaining: 554ms
70: learn: 1973.6512922 test: 1964.8033511 best: 1964.8033511 (70) total: 1.34s remaining: 548ms
71: learn: 1970.8820424 test: 1962.2333392 best: 1962.2333392 (71) total: 1.36s remaining: 528ms
72: learn: 1966.7086585 test: 1957.9244306 best: 1957.9244306 (72) total: 1.37s remaining: 508ms
73: learn: 1963.1599975 test: 1954.3523901 best: 1954.3523901 (73) total: 1.39s remaining: 488ms
74: learn: 1960.1243233 test: 1951.5519682 best: 1951.5519682 (74) total: 1.4s remaining: 468ms
75: learn: 1958.0319500 test: 1949.7045781 best: 1949.7045781 (75) total: 1.42s remaining: 447ms
76: learn: 1954.7886351 test: 1946.4886108 best: 1946.4886108 (76) total: 1.43s remaining: 428ms
77: learn: 1952.0552123 test: 1943.7103636 best: 1943.7103636 (77) total: 1.45s remaining: 409ms
78: learn: 1948.3391229 test: 1939.8499610 best: 1939.8499610 (78) total: 1.47s remaining: 390ms

79: learn: 1946.2319663 test: 1938.1553295 best: 1938.1553295 (79) total: 1.48s remaining: 370ms
80: learn: 1944.2819299 test: 1936.0837543 best: 1936.0837543 (80) total: 1.5s remaining: 351ms
81: learn: 1941.9680549 test: 1933.5515960 best: 1933.5515960 (81) total: 1.51s remaining: 331ms
82: learn: 1939.5839199 test: 1930.9820747 best: 1930.9820747 (82) total: 1.52s remaining: 312ms
83: learn: 1936.9068045 test: 1928.2464838 best: 1928.2464838 (83) total: 1.54s remaining: 294ms
84: learn: 1934.6292543 test: 1926.2745429 best: 1926.2745429 (84) total: 1.56s remaining: 275ms
85: learn: 1932.1641286 test: 1923.6099249 best: 1923.6099249 (85) total: 1.57s remaining: 256ms
86: learn: 1928.1421188 test: 1919.3993512 best: 1919.3993512 (86) total: 1.59s remaining: 237ms
87: learn: 1925.7292611 test: 1917.0513186 best: 1917.0513186 (87) total: 1.6s remaining: 218ms
88: learn: 1924.1082059 test: 1915.6541641 best: 1915.6541641 (88) total: 1.62s remaining: 200ms
89: learn: 1922.3784553 test: 1913.6804252 best: 1913.6804252 (89) total: 1.63s remaining: 181ms
90: learn: 1920.7706058 test: 1912.3482739 best: 1912.3482739 (90) total: 1.65s remaining: 163ms
91: learn: 1918.5125711 test: 1910.1031496 best: 1910.1031496 (91) total: 1.66s remaining: 145ms
92: learn: 1917.1150579 test: 1909.0183040 best: 1909.0183040 (92) total: 1.68s remaining: 126ms
93: learn: 1914.7031922 test: 1906.4898349 best: 1906.4898349 (93) total: 1.69s remaining: 108ms
94: learn: 1913.1635999 test: 1905.0006115 best: 1905.0006115 (94) total: 1.71s remaining: 90ms
95: learn: 1911.6224308 test: 1903.2817215 best: 1903.2817215 (95) total: 1.72s remaining: 71.8ms
96: learn: 1909.9132171 test: 1901.8139776 best: 1901.8139776 (96) total: 1.74s remaining: 53.8ms
97: learn: 1907.9989040 test: 1899.8789298 best: 1899.8789298 (97) total: 1.75s remaining: 35.8ms
98: learn: 1906.7421744 test: 1898.8498261 best: 1898.8498261 (98) total: 1.77s remaining: 17.9ms
99: learn: 1903.8925026 test: 1895.7663824 best: 1895.7663824 (99) total: 1.78s remaining: 0us

bestTest = 1895.766382

bestIteration = 99

25: loss: 1895.7663824 best: 1895.7663824 (25) total: 53s remaining: 2m 22s
0: learn: 6809.5487122 test: 6837.6525129 best: 6837.6525129 (0) total: 16.3ms remaining: 1.61s
1: learn: 6643.1263824 test: 6670.8775106 best: 6670.8775106 (1) total: 32.6ms remaining: 1.6s
2: learn: 6482.7733570 test: 6510.6592765 best: 6510.6592765 (2) total: 53.6ms remaining: 1.73s
3: learn: 6329.3269464 test: 6357.5631080 best: 6357.5631080 (3) total: 70.3ms remaining: 1.69s
4: learn: 6179.8335771 test: 6208.2706003 best: 6208.2706003 (4) total: 86.9ms remaining: 1.65s
5: learn: 6033.8020905 test: 6062.2899288 best: 6062.2899288 (5) total: 103ms remaining: 1.61s
6: learn: 5893.8962953 test: 5922.4791307 best: 5922.4791307 (6) total: 119ms remaining: 1.58s
7: learn: 5758.5099192 test: 5786.8307217 best: 5786.8307217 (7) total: 136ms remaining: 1.56s
8: learn: 5626.8991198 test: 5655.0056568 best: 5655.0056568 (8) total: 153ms remaining: 1.55s
9: learn: 5501.5156545 test: 5529.6338088 best: 5529.6338088 (9) total: 169ms remaining: 1.52s
10: learn: 5380.1000367 test: 5408.1943600 best: 5408.1943600 (10) total: 185ms remaining: 1.5s
11: learn: 5262.5675785 test: 5290.6936105 best: 5290.6936105 (11) total: 201ms remaining: 1.48s
12: learn: 5149.0843144 test: 5177.1011724 best: 5177.1011724 (12) total: 218ms remaining: 1.46s
13: learn: 5039.7750369 test: 5067.7149466 best: 5067.7149466 (13) total: 239ms remaining: 1.47s
14: learn: 4934.3204361 test: 4962.2024629 best: 4962.2024629 (14) total: 255ms remaining: 1.44s
15: learn: 4822.8705275 test: 4860.4050860 best: 4860.4050860 (15) total: 271ms remaining: 1.42s

15: learn: 4832.8705273 test: 4860.4059869 best: 4860.4059869 (15) total: 271ms remaining: 1.42s
16: learn: 4734.2802482 test: 4761.5367757 best: 4761.5367757 (16) total: 291ms remaining: 1.42s
17: learn: 4639.8718592 test: 4666.7285192 best: 4666.7285192 (17) total: 307ms remaining: 1.4s
18: learn: 4549.8096286 test: 4576.3630969 best: 4576.3630969 (18) total: 323ms remaining: 1.38s
19: learn: 4462.1148870 test: 4488.5231741 best: 4488.5231741 (19) total: 340ms remaining: 1.36s
20: learn: 4376.7401790 test: 4402.7764247 best: 4402.7764247 (20) total: 356ms remaining: 1.34s
21: learn: 4294.8321763 test: 4320.5161533 best: 4320.5161533 (21) total: 373ms remaining: 1.32s
22: learn: 4214.4658821 test: 4240.2061615 best: 4240.2061615 (22) total: 392ms remaining: 1.31s
23: learn: 4137.6491933 test: 4163.3495017 best: 4163.3495017 (23) total: 409ms remaining: 1.3s
24: learn: 4064.8077725 test: 4090.0988718 best: 4090.0988718 (24) total: 426ms remaining: 1.28s
25: learn: 3993.5437030 test: 4018.2947166 best: 4018.2947166 (25) total: 449ms remaining: 1.28s
26: learn: 3924.3274919 test: 3948.9539808 best: 3948.9539808 (26) total: 465ms remaining: 1.26s
27: learn: 3860.7898222 test: 3884.9645674 best: 3884.9645674 (27) total: 481ms remaining: 1.24s
28: learn: 3797.4474907 test: 3821.1752846 best: 3821.1752846 (28) total: 497ms remaining: 1.22s
29: learn: 3736.6319359 test: 3759.8106580 best: 3759.8106580 (29) total: 512ms remaining: 1.2s
30: learn: 3677.8497278 test: 3700.8277038 best: 3700.8277038 (30) total: 528ms remaining: 1.18s
31: learn: 3620.7234958 test: 3643.2317181 best: 3643.2317181 (31) total: 544ms remaining: 1.16s
32: learn: 3567.7186845 test: 3589.9363496 best: 3589.9363496 (32) total: 560ms remaining: 1.14s
33: learn: 3515.7099945 test: 3537.4476566 best: 3537.4476566 (33) total: 576ms remaining: 1.12s
34: learn: 3465.6515420 test: 3486.5489143 best: 3486.5489143 (34) total: 592ms remaining: 1.1s
35: learn: 3417.6189996 test: 3438.1526676 best: 3438.1526676 (35) total: 609ms remaining: 1.08s
36: learn: 3371.0095290 test: 3391.0420481 best: 3391.0420481 (36) total: 636ms remaining: 1.08s
37: learn: 3327.6208557 test: 3347.3649104 best: 3347.3649104 (37) total: 657ms remaining: 1.07s
38: learn: 3283.5121411 test: 3302.6168866 best: 3302.6168866 (38) total: 673ms remaining: 1.05s
39: learn: 3242.6278522 test: 3260.9559213 best: 3260.9559213 (39) total: 688ms remaining: 1.03s
40: learn: 3203.6978041 test: 3221.7671273 best: 3221.7671273 (40) total: 704ms remaining: 1.01s
41: learn: 3165.0417926 test: 3182.5502337 best: 3182.5502337 (41) total: 719ms remaining: 993ms
42: learn: 3130.2260211 test: 3147.2963016 best: 3147.2963016 (42) total: 736ms remaining: 976ms
43: learn: 3095.8755116 test: 3112.3599231 best: 3112.3599231 (43) total: 753ms remaining: 958ms
44: learn: 3062.6943162 test: 3078.6166028 best: 3078.6166028 (44) total: 769ms remaining: 940ms
45: learn: 3030.4624623 test: 3045.8077192 best: 3045.8077192 (45) total: 784ms remaining: 921ms
46: learn: 3000.3241726 test: 3015.3608177 best: 3015.3608177 (46) total: 799ms remaining: 901ms
47: learn: 2970.4345963 test: 2985.0987449 best: 2985.0987449 (47) total: 814ms remaining: 882ms
48: learn: 2942.1240162 test: 2956.4352961 best: 2956.4352961 (48) total: 829ms remaining: 863ms
49: learn: 2914.6616830 test: 2928.8221615 best: 2928.8221615 (49) total: 847ms remaining: 847ms
50: learn: 2889.1349466 test: 2903.0354803 best: 2903.0354803 (50) total: 863ms remaining: 829ms
51: learn: 2863.2484481 test: 2876.4792886 best: 2876.4792886 (51) total: 878ms remaining: 811ms
52: learn: 2838.7108918 test: 2851.3852001 best: 2851.3852001 (52) total: 895ms remaining: 793ms
53: learn: 2816.1884464 test: 2828.5979088 best: 2828.5979088 (53) total: 912ms remaining: 776ms
54: learn: 2793.6994563 test: 2805.6030392 best: 2805.6030392 (54) total: 940ms remaining: 769ms
55: learn: 2772.3731162 test: 2783.5407201 best: 2783.5407201 (55) total: 957ms remaining: 752ms
56: learn: 2751.5061800 test: 2762.1496646 best: 2762.1496646 (56) total: 974ms remaining: 735ms

57: learn: 2731.7900006 test: 2742.2618436 best: 2742.2618436 (57) total: 991ms remaining: 717ms
58: learn: 2711.8913322 test: 2721.8232382 best: 2721.8232382 (58) total: 1.01s remaining: 700ms
59: learn: 2692.9057967 test: 2702.2961497 best: 2702.2961497 (59) total: 1.02s remaining: 683ms
60: learn: 2674.3678837 test: 2683.2064967 best: 2683.2064967 (60) total: 1.04s remaining: 666ms
61: learn: 2657.4133365 test: 2665.9943225 best: 2665.9943225 (61) total: 1.06s remaining: 649ms
62: learn: 2639.7142024 test: 2647.8881768 best: 2647.8881768 (62) total: 1.07s remaining: 632ms
63: learn: 2624.2077665 test: 2632.1383075 best: 2632.1383075 (63) total: 1.09s remaining: 615ms
64: learn: 2608.8747757 test: 2616.2246430 best: 2616.2246430 (64) total: 1.11s remaining: 598ms
65: learn: 2594.4491289 test: 2601.3764580 best: 2601.3764580 (65) total: 1.13s remaining: 580ms
66: learn: 2579.6722955 test: 2586.1801518 best: 2586.1801518 (66) total: 1.14s remaining: 563ms
67: learn: 2565.9902816 test: 2572.0860584 best: 2572.0860584 (67) total: 1.16s remaining: 545ms
68: learn: 2553.0437089 test: 2559.0260908 best: 2559.0260908 (68) total: 1.17s remaining: 528ms
69: learn: 2538.6730235 test: 2544.0630418 best: 2544.0630418 (69) total: 1.19s remaining: 510ms
70: learn: 2526.0553964 test: 2530.9635147 best: 2530.9635147 (70) total: 1.2s remaining: 492ms
71: learn: 2513.7209558 test: 2518.2365118 best: 2518.2365118 (71) total: 1.22s remaining: 475ms
72: learn: 2502.0476746 test: 2506.3341642 best: 2506.3341642 (72) total: 1.24s remaining: 460ms
73: learn: 2489.8642939 test: 2493.7853925 best: 2493.7853925 (73) total: 1.26s remaining: 442ms
74: learn: 2478.3826648 test: 2481.7556460 best: 2481.7556460 (74) total: 1.27s remaining: 425ms
75: learn: 2467.7085140 test: 2470.7527147 best: 2470.7527147 (75) total: 1.29s remaining: 407ms
76: learn: 2457.5768330 test: 2460.3998684 best: 2460.3998684 (76) total: 1.3s remaining: 390ms
77: learn: 2447.7069300 test: 2450.1466772 best: 2450.1466772 (77) total: 1.32s remaining: 372ms
78: learn: 2438.0104258 test: 2440.2870502 best: 2440.2870502 (78) total: 1.34s remaining: 356ms
79: learn: 2427.6867758 test: 2429.5951062 best: 2429.5951062 (79) total: 1.35s remaining: 338ms
80: learn: 2418.7123466 test: 2420.2943914 best: 2420.2943914 (80) total: 1.37s remaining: 321ms
81: learn: 2409.3322691 test: 2410.5533898 best: 2410.5533898 (81) total: 1.38s remaining: 304ms
82: learn: 2400.1242351 test: 2400.9442906 best: 2400.9442906 (82) total: 1.4s remaining: 287ms
83: learn: 2391.7366130 test: 2392.3736220 best: 2392.3736220 (83) total: 1.42s remaining: 270ms
84: learn: 2383.0379517 test: 2383.3296510 best: 2383.3296510 (84) total: 1.43s remaining: 253ms
85: learn: 2374.9262030 test: 2374.9331273 best: 2374.9331273 (85) total: 1.45s remaining: 236ms
86: learn: 2367.3193311 test: 2367.1598891 best: 2367.1598891 (86) total: 1.46s remaining: 219ms
87: learn: 2359.9176763 test: 2359.5750897 best: 2359.5750897 (87) total: 1.48s remaining: 202ms
88: learn: 2351.6468147 test: 2351.0170092 best: 2351.0170092 (88) total: 1.5s remaining: 185ms
89: learn: 2344.6920060 test: 2343.6932297 best: 2343.6932297 (89) total: 1.51s remaining: 168ms
90: learn: 2337.9136887 test: 2336.6485736 best: 2336.6485736 (90) total: 1.53s remaining: 151ms
91: learn: 2331.0973607 test: 2329.3447141 best: 2329.3447141 (91) total: 1.54s remaining: 134ms
92: learn: 2324.9742829 test: 2322.9587133 best: 2322.9587133 (92) total: 1.56s remaining: 117ms
93: learn: 2318.6214110 test: 2316.3410401 best: 2316.3410401 (93) total: 1.57s remaining: 101ms
94: learn: 2312.7088121 test: 2310.4212959 best: 2310.4212959 (94) total: 1.59s remaining: 83.7ms
95: learn: 2306.9046529 test: 2304.4345608 best: 2304.4345608 (95) total: 1.6s remaining: 66.9ms
96: learn: 2301.2353120 test: 2298.5872225 best: 2298.5872225 (96) total: 1.62s remaining: 50.1ms
97: learn: 2295.7754988 test: 2292.8544221 best: 2292.8544221 (97) total: 1.64s remaining: 33.4ms

98: learn: 2290.7707571 test: 2287.6727031 best: 2287.6727031 (98) total: 1.65s remaining: 16.7ms

99: learn: 2285.6498866 test: 2282.2465965 best: 2282.2465965 (99) total: 1.67s remaining: 0us

bestTest = 2282.246597

bestIteration = 99

26: loss: 2282.2465965 best: 1895.7663824 (25) total: 54.7s remaining: 2m 19s

0: learn: 6410.7170174 test: 6438.8265902 best: 6438.8265902 (0) total: 16.6ms remaining: 1.65s

1: learn: 5902.8401110 test: 5929.6255821 best: 5929.6255821 (1) total: 32.5ms remaining: 1.59s

2: learn: 5454.8661179 test: 5481.8836832 best: 5481.8836832 (2) total: 51.4ms remaining: 1.66s

3: learn: 5062.7098707 test: 5090.2329127 best: 5090.2329127 (3) total: 66.5ms remaining: 1.59s

4: learn: 4707.5942479 test: 4734.5584446 best: 4734.5584446 (4) total: 81.5ms remaining: 1.55s

5: learn: 4396.2675061 test: 4423.1820465 best: 4423.1820465 (5) total: 97.1ms remaining: 1.52s

6: learn: 4126.1860964 test: 4152.2154026 best: 4152.2154026 (6) total: 113ms remaining: 1.5s

7: learn: 3885.1100505 test: 3910.1253251 best: 3910.1253251 (7) total: 131ms remaining: 1.51s

8: learn: 3673.3141554 test: 3696.4636046 best: 3696.4636046 (8) total: 150ms remaining: 1.52s

9: learn: 3488.8062780 test: 3510.5558418 best: 3510.5558418 (9) total: 165ms remaining: 1.49s

10: learn: 3330.2359180 test: 3351.0553706 best: 3351.0553706 (10) total: 181ms remaining: 1.46s

11: learn: 3189.3352467 test: 3209.0929122 best: 3209.0929122 (11) total: 196ms remaining: 1.44s

12: learn: 3072.5043541 test: 3090.4268174 best: 3090.4268174 (12) total: 212ms remaining: 1.42s

13: learn: 2961.9890109 test: 2978.3346868 best: 2978.3346868 (13) total: 227ms remaining: 1.39s

14: learn: 2871.3293175 test: 2886.0319709 best: 2886.0319709 (14) total: 247ms remaining: 1.4s

15: learn: 2792.1946720 test: 2804.4734048 best: 2804.4734048 (15) total: 263ms remaining: 1.38s

16: learn: 2723.6963780 test: 2735.0705883 best: 2735.0705883 (16) total: 282ms remaining: 1.38s

17: learn: 2663.3629715 test: 2672.6990545 best: 2672.6990545 (17) total: 298ms remaining: 1.36s

18: learn: 2609.3302550 test: 2617.9853895 best: 2617.9853895 (18) total: 314ms remaining: 1.34s

19: learn: 2562.9751918 test: 2570.8466483 best: 2570.8466483 (19) total: 330ms remaining: 1.32s

20: learn: 2516.2393049 test: 2522.5207423 best: 2522.5207423 (20) total: 347ms remaining: 1.3s

21: learn: 2476.8336895 test: 2481.7239833 best: 2481.7239833 (21) total: 362ms remaining: 1.28s

22: learn: 2440.6671371 test: 2444.4989730 best: 2444.4989730 (22) total: 376ms remaining: 1.26s

23: learn: 2407.3454311 test: 2409.8436770 best: 2409.8436770 (23) total: 392ms remaining: 1.24s

24: learn: 2378.7782414 test: 2380.2136517 best: 2380.2136517 (24) total: 408ms remaining: 1.22s

25: learn: 2354.9270365 test: 2355.1131784 best: 2355.1131784 (25) total: 423ms remaining: 1.2s

26: learn: 2330.1192840 test: 2329.7474327 best: 2329.7474327 (26) total: 446ms remaining: 1.21s

27: learn: 2309.1744167 test: 2308.6775289 best: 2308.6775289 (27) total: 463ms remaining: 1.19s

28: learn: 2290.1630873 test: 2289.3479131 best: 2289.3479131 (28) total: 478ms remaining: 1.17s

29: learn: 2271.5227367 test: 2269.5360302 best: 2269.5360302 (29) total: 494ms remaining: 1.15s

30: learn: 2255.4828191 test: 2252.8412053 best: 2252.8412053 (30) total: 509ms remaining: 1.13s

31: learn: 2241.6085671 test: 2238.4616516 best: 2238.4616516 (31) total: 526ms remaining: 1.12s

32: learn: 2226.6065518 test: 2223.0597344 best: 2223.0597344 (32) total: 545ms remaining: 1.11s

33: learn: 2213.3592404 test: 2209.0133489 best: 2209.0133489 (33) total: 563ms remaining: 1.09s

34: learn: 2200.3338250 test: 2194.7476530 best: 2194.7476530 (34) total: 578ms remaining: 1.07s
35: learn: 2188.4229637 test: 2182.6484515 best: 2182.6484515 (35) total: 594ms remaining: 1.06s
36: learn: 2177.7744924 test: 2172.0347905 best: 2172.0347905 (36) total: 610ms remaining: 1.04s
37: learn: 2167.8975663 test: 2162.1377149 best: 2162.1377149 (37) total: 626ms remaining: 1.02s
38: learn: 2158.6127302 test: 2152.5005360 best: 2152.5005360 (38) total: 646ms remaining: 1.01s
39: learn: 2151.3213603 test: 2145.2082945 best: 2145.2082945 (39) total: 661ms remaining: 992ms
40: learn: 2141.9137708 test: 2134.7227117 best: 2134.7227117 (40) total: 677ms remaining: 974ms
41: learn: 2133.3721954 test: 2126.1187472 best: 2126.1187472 (41) total: 693ms remaining: 956ms
42: learn: 2124.2921787 test: 2117.0244808 best: 2117.0244808 (42) total: 707ms remaining: 938ms
43: learn: 2116.5029313 test: 2109.2860966 best: 2109.2860966 (43) total: 722ms remaining: 919ms
44: learn: 2108.3804419 test: 2101.2312746 best: 2101.2312746 (44) total: 738ms remaining: 902ms
45: learn: 2102.5113692 test: 2095.5582011 best: 2095.5582011 (45) total: 754ms remaining: 885ms
46: learn: 2094.8041317 test: 2087.9621276 best: 2087.9621276 (46) total: 768ms remaining: 867ms
47: learn: 2089.4057093 test: 2082.0261601 best: 2082.0261601 (47) total: 783ms remaining: 848ms
48: learn: 2081.8707894 test: 2074.5850406 best: 2074.5850406 (48) total: 798ms remaining: 830ms
49: learn: 2076.5114306 test: 2068.9794038 best: 2068.9794038 (49) total: 814ms remaining: 814ms
50: learn: 2069.5245398 test: 2061.6185288 best: 2061.6185288 (50) total: 829ms remaining: 796ms
51: learn: 2062.9039713 test: 2054.8386733 best: 2054.8386733 (51) total: 848ms remaining: 783ms
52: learn: 2054.2259235 test: 2045.6218255 best: 2045.6218255 (52) total: 863ms remaining: 766ms
53: learn: 2049.0407286 test: 2040.7113721 best: 2040.7113721 (53) total: 877ms remaining: 747ms
54: learn: 2044.2010935 test: 2036.1590192 best: 2036.1590192 (54) total: 892ms remaining: 730ms
55: learn: 2037.6231376 test: 2029.2876902 best: 2029.2876902 (55) total: 907ms remaining: 712ms
56: learn: 2033.6343183 test: 2024.8976849 best: 2024.8976849 (56) total: 921ms remaining: 695ms
57: learn: 2028.7126168 test: 2020.2568229 best: 2020.2568229 (57) total: 936ms remaining: 678ms
58: learn: 2023.2766103 test: 2014.2206415 best: 2014.2206415 (58) total: 953ms remaining: 662ms
59: learn: 2018.8027722 test: 2009.6125324 best: 2009.6125324 (59) total: 968ms remaining: 646ms
60: learn: 2013.2994473 test: 2003.8650044 best: 2003.8650044 (60) total: 984ms remaining: 629ms
61: learn: 2009.7279266 test: 2000.6340036 best: 2000.6340036 (61) total: 997ms remaining: 611ms
62: learn: 2004.3741714 test: 1995.0744943 best: 1995.0744943 (62) total: 1.01s remaining: 595ms
63: learn: 2000.3201818 test: 1991.2277027 best: 1991.2277027 (63) total: 1.03s remaining: 579ms
64: learn: 1997.1713468 test: 1988.4745190 best: 1988.4745190 (64) total: 1.05s remaining: 564ms
65: learn: 1992.8994331 test: 1984.0816447 best: 1984.0816447 (65) total: 1.06s remaining: 547ms
66: learn: 1989.6670157 test: 1980.7205984 best: 1980.7205984 (66) total: 1.07s remaining: 529ms
67: learn: 1986.6565390 test: 1977.8553901 best: 1977.8553901 (67) total: 1.09s remaining: 512ms
68: learn: 1982.0178024 test: 1973.0600482 best: 1973.0600482 (68) total: 1.1s remaining: 496ms
69: learn: 1979.5096745 test: 1970.9902811 best: 1970.9902811 (69) total: 1.12s remaining: 479ms
70: learn: 1976.0986270 test: 1967.6240299 best: 1967.6240299 (70) total: 1.13s remaining: 463ms
71: learn: 1971.9140000 test: 1963.2643199 best: 1963.2643199 (71) total: 1.15s remaining: 446ms
72: learn: 1967.2511080 test: 1958.4410022 best: 1958.4410022 (72) total: 1.16s remaining: 430ms
73: learn: 1964.2754463 test: 1955.0191563 best: 1955.0191563 (73) total: 1.18s remaining: 413ms
74: learn: 1961.8054257 test: 1952.8460530 best: 1952.8460530 (74) total: 1.19s remaining: 397ms
75: learn: 1959.4854931 test: 1950.7992802 best: 1950.7992802 (75) total: 1.2s remaining: 381ms

75: learn: 1955.4854531 test: 1955.7552002 best: 1955.7552002 (75) total: 1.23s remaining: 381ms
76: learn: 1955.9936218 test: 1947.2772157 best: 1947.2772157 (76) total: 1.22s remaining: 364ms
77: learn: 1953.7830877 test: 1944.8551197 best: 1944.8551197 (77) total: 1.24s remaining: 350ms
78: learn: 1949.8958552 test: 1940.7626899 best: 1940.7626899 (78) total: 1.25s remaining: 334ms
79: learn: 1946.4049359 test: 1937.1503200 best: 1937.1503200 (79) total: 1.27s remaining: 318ms
80: learn: 1944.0974783 test: 1935.2302717 best: 1935.2302717 (80) total: 1.29s remaining: 302ms
81: learn: 1942.2283494 test: 1933.4316054 best: 1933.4316054 (81) total: 1.3s remaining: 286ms
82: learn: 1939.7556412 test: 1930.8297775 best: 1930.8297775 (82) total: 1.32s remaining: 270ms
83: learn: 1936.4135048 test: 1927.4340227 best: 1927.4340227 (83) total: 1.33s remaining: 254ms
84: learn: 1934.0414466 test: 1925.0513857 best: 1925.0513857 (84) total: 1.35s remaining: 238ms
85: learn: 1931.7537272 test: 1922.8043924 best: 1922.8043924 (85) total: 1.36s remaining: 222ms
86: learn: 1929.5317132 test: 1920.6023189 best: 1920.6023189 (86) total: 1.38s remaining: 206ms
87: learn: 1926.7527181 test: 1917.8706596 best: 1917.8706596 (87) total: 1.4s remaining: 190ms
88: learn: 1925.0934010 test: 1916.4280156 best: 1916.4280156 (88) total: 1.41s remaining: 174ms
89: learn: 1923.5487013 test: 1914.5015200 best: 1914.5015200 (89) total: 1.43s remaining: 159ms
90: learn: 1921.6330858 test: 1912.5642843 best: 1912.5642843 (90) total: 1.45s remaining: 143ms
91: learn: 1919.3911783 test: 1910.3497833 best: 1910.3497833 (91) total: 1.46s remaining: 127ms
92: learn: 1917.1608804 test: 1908.0776566 best: 1908.0776566 (92) total: 1.48s remaining: 111ms
93: learn: 1914.9315115 test: 1905.9480733 best: 1905.9480733 (93) total: 1.5s remaining: 95.7ms
94: learn: 1912.7127521 test: 1903.6836004 best: 1903.6836004 (94) total: 1.51s remaining: 79.7ms
95: learn: 1910.9118230 test: 1901.7544711 best: 1901.7544711 (95) total: 1.53s remaining: 63.7ms
96: learn: 1909.4290973 test: 1900.4234314 best: 1900.4234314 (96) total: 1.54s remaining: 47.8ms
97: learn: 1908.1749921 test: 1899.5412883 best: 1899.5412883 (97) total: 1.56s remaining: 31.8ms
98: learn: 1906.4956274 test: 1897.9512310 best: 1897.9512310 (98) total: 1.57s remaining: 15.9ms
99: learn: 1902.9667215 test: 1894.2522294 best: 1894.2522294 (99) total: 1.59s remaining: 0us

bestTest = 1894.252229

bestIteration = 99

27: loss: 1894.2522294 best: 1894.2522294 (27) total: 56.3s remaining: 2m 16s
0: learn: 6809.5571969 test: 6837.6609651 best: 6837.6609651 (0) total: 17ms remaining: 1.68s
1: learn: 6643.1507909 test: 6670.9025374 best: 6670.9025374 (1) total: 34.8ms remaining: 1.71s
2: learn: 6482.8101375 test: 6510.6966188 best: 6510.6966188 (2) total: 50.9ms remaining: 1.65s
3: learn: 6329.3751281 test: 6357.6116777 best: 6357.6116777 (3) total: 66.5ms remaining: 1.59s
4: learn: 6179.8953713 test: 6208.3324913 best: 6208.3324913 (4) total: 81.9ms remaining: 1.56s
5: learn: 6033.8706363 test: 6062.3585793 best: 6062.3585793 (5) total: 97.2ms remaining: 1.52s
6: learn: 5893.9766859 test: 5922.5597840 best: 5922.5597840 (6) total: 113ms remaining: 1.5s
7: learn: 5758.5959457 test: 5786.9170325 best: 5786.9170325 (7) total: 132ms remaining: 1.52s
8: learn: 5626.9907262 test: 5655.0975720 best: 5655.0975720 (8) total: 148ms remaining: 1.49s
9: learn: 5501.6131882 test: 5529.7317017 best: 5529.7317017 (9) total: 163ms remaining: 1.47s
10: learn: 5380.2009017 test: 5408.2956219 best: 5408.2956219 (10) total: 179ms remaining: 1.44s
11: learn: 5262.6701039 test: 5290.7965319 best: 5290.7965319 (11) total: 194ms remaining: 1.42s

12: learn: 5149.1890134 test: 5177.2062981 best: 5177.2062981 (12) total: 209ms remaining: 1.4s
13: learn: 5039.8875300 test: 5067.8280500 best: 5067.8280500 (13) total: 226ms remaining: 1.39s
14: learn: 4934.4382484 test: 4962.3210113 best: 4962.3210113 (14) total: 245ms remaining: 1.39s
15: learn: 4832.9940303 test: 4860.5304964 best: 4860.5304964 (15) total: 261ms remaining: 1.37s
16: learn: 4734.4054108 test: 4761.6629870 best: 4761.6629870 (16) total: 277ms remaining: 1.35s
17: learn: 4640.0010390 test: 4666.8587806 best: 4666.8587806 (17) total: 293ms remaining: 1.33s
18: learn: 4549.9382713 test: 4576.4928539 best: 4576.4928539 (18) total: 309ms remaining: 1.31s
19: learn: 4462.2460464 test: 4488.6554217 best: 4488.6554217 (19) total: 329ms remaining: 1.32s
20: learn: 4376.8736761 test: 4402.9110322 best: 4402.9110322 (20) total: 346ms remaining: 1.3s
21: learn: 4294.9668512 test: 4320.6519551 best: 4320.6519551 (21) total: 362ms remaining: 1.28s
22: learn: 4214.5999353 test: 4240.3413765 best: 4240.3413765 (22) total: 378ms remaining: 1.26s
23: learn: 4137.7828813 test: 4163.4843485 best: 4163.4843485 (23) total: 393ms remaining: 1.25s
24: learn: 4064.9454104 test: 4090.2381504 best: 4090.2381504 (24) total: 409ms remaining: 1.23s
25: learn: 3993.6837771 test: 4018.4365116 best: 4018.4365116 (25) total: 424ms remaining: 1.21s
26: learn: 3924.4664594 test: 3949.0946907 best: 3949.0946907 (26) total: 441ms remaining: 1.19s
27: learn: 3860.9302879 test: 3885.1069674 best: 3885.1069674 (27) total: 456ms remaining: 1.17s
28: learn: 3797.5896271 test: 3821.3195227 best: 3821.3195227 (28) total: 472ms remaining: 1.15s
29: learn: 3736.7736382 test: 3759.9546316 best: 3759.9546316 (29) total: 487ms remaining: 1.14s
30: learn: 3677.9894252 test: 3700.9697384 best: 3700.9697384 (30) total: 503ms remaining: 1.12s
31: learn: 3620.8639624 test: 3643.3748072 best: 3643.3748072 (31) total: 518ms remaining: 1.1s
32: learn: 3567.8566619 test: 3590.0770152 best: 3590.0770152 (32) total: 538ms remaining: 1.09s
33: learn: 3515.8468097 test: 3537.5872494 best: 3537.5872494 (33) total: 554ms remaining: 1.07s
34: learn: 3465.7869308 test: 3486.6871293 best: 3486.6871293 (34) total: 569ms remaining: 1.06s
35: learn: 3417.7529053 test: 3438.2894344 best: 3438.2894344 (35) total: 584ms remaining: 1.04s
36: learn: 3371.1431849 test: 3391.1788062 best: 3391.1788062 (36) total: 600ms remaining: 1.02s
37: learn: 3327.7536932 test: 3347.5008487 best: 3347.5008487 (37) total: 615ms remaining: 1s
38: learn: 3283.6431295 test: 3302.7510357 best: 3302.7510357 (38) total: 633ms remaining: 990ms
39: learn: 3242.7566838 test: 3261.0879579 best: 3261.0879579 (39) total: 648ms remaining: 972ms
40: learn: 3203.8256945 test: 3221.8981986 best: 3221.8981986 (40) total: 664ms remaining: 955ms
41: learn: 3165.1673949 test: 3182.6791046 best: 3182.6791046 (41) total: 680ms remaining: 939ms
42: learn: 3130.3493382 test: 3147.4229102 best: 3147.4229102 (42) total: 700ms remaining: 927ms
43: learn: 3095.9980180 test: 3112.4860317 best: 3112.4860317 (43) total: 725ms remaining: 923ms
44: learn: 3062.8159371 test: 3078.7419104 best: 3078.7419104 (44) total: 746ms remaining: 912ms
45: learn: 3030.5827711 test: 3045.9317940 best: 3045.9317940 (45) total: 764ms remaining: 896ms
46: learn: 3000.4440906 test: 3015.4844702 best: 3015.4844702 (46) total: 782ms remaining: 882ms
47: learn: 2970.5552510 test: 2985.2231190 best: 2985.2231190 (47) total: 800ms remaining: 867ms
48: learn: 2942.2486068 test: 2956.5636158 best: 2956.5636158 (48) total: 818ms remaining: 851ms
49: learn: 2914.7848248 test: 2928.9490416 best: 2928.9490416 (49) total: 836ms remaining: 836ms
50: learn: 2889.2625179 test: 2903.1667117 best: 2903.1667117 (50) total: 853ms remaining: 820ms
51: learn: 2863.3747870 test: 2876.6094728 best: 2876.6094728 (51) total: 871ms remaining: 804ms
52: learn: 2838.8356694 test: 2851.5139051 best: 2851.5139051 (52) total: 887ms remaining: 787ms

53: learn: 2816.3121908 test: 2828.7253423 best: 2828.7253423 (53) total: 902ms remaining: 768ms
54: learn: 2793.8210366 test: 2805.7283318 best: 2805.7283318 (54) total: 926ms remaining: 758ms
55: learn: 2772.4987678 test: 2783.6671492 best: 2783.6671492 (55) total: 944ms remaining: 742ms
56: learn: 2751.6345521 test: 2762.2791033 best: 2762.2791033 (56) total: 961ms remaining: 725ms
57: learn: 2731.9210744 test: 2742.3933550 best: 2742.3933550 (57) total: 978ms remaining: 708ms
58: learn: 2712.0205323 test: 2721.9530280 best: 2721.9530280 (58) total: 993ms remaining: 690ms
59: learn: 2693.0342309 test: 2702.4258875 best: 2702.4258875 (59) total: 1.01s remaining: 672ms
60: learn: 2674.4944303 test: 2683.3343104 best: 2683.3343104 (60) total: 1.03s remaining: 657ms
61: learn: 2657.5434674 test: 2666.1239270 best: 2666.1239270 (61) total: 1.04s remaining: 639ms
62: learn: 2639.8455057 test: 2648.0170364 best: 2648.0170364 (62) total: 1.06s remaining: 621ms
63: learn: 2624.3390331 test: 2632.2668006 best: 2632.2668006 (63) total: 1.07s remaining: 604ms
64: learn: 2609.0046257 test: 2616.3517366 best: 2616.3517366 (64) total: 1.09s remaining: 587ms
65: learn: 2594.5783546 test: 2601.5029133 best: 2601.5029133 (65) total: 1.11s remaining: 570ms
66: learn: 2579.8004583 test: 2586.3055498 best: 2586.3055498 (66) total: 1.13s remaining: 554ms
67: learn: 2566.1189489 test: 2572.2121996 best: 2572.2121996 (67) total: 1.14s remaining: 537ms
68: learn: 2553.1751911 test: 2559.1552027 best: 2559.1552027 (68) total: 1.16s remaining: 519ms
69: learn: 2538.8036129 test: 2544.1910762 best: 2544.1910762 (69) total: 1.17s remaining: 501ms
70: learn: 2526.1877900 test: 2531.0932514 best: 2531.0932514 (70) total: 1.18s remaining: 484ms
71: learn: 2513.8522671 test: 2518.3651847 best: 2518.3651847 (71) total: 1.2s remaining: 467ms
72: learn: 2502.1801246 test: 2506.4639373 best: 2506.4639373 (72) total: 1.22s remaining: 450ms
73: learn: 2489.9978701 test: 2493.9140300 best: 2493.9140300 (73) total: 1.23s remaining: 433ms
74: learn: 2478.5147731 test: 2481.8828446 best: 2481.8828446 (74) total: 1.25s remaining: 415ms
75: learn: 2467.8395991 test: 2470.8788515 best: 2470.8788515 (75) total: 1.26s remaining: 398ms
76: learn: 2457.7066138 test: 2460.5246079 best: 2460.5246079 (76) total: 1.28s remaining: 381ms
77: learn: 2447.8377469 test: 2450.2717760 best: 2450.2717760 (77) total: 1.29s remaining: 364ms
78: learn: 2438.1402018 test: 2440.4109508 best: 2440.4109508 (78) total: 1.31s remaining: 348ms
79: learn: 2427.8220716 test: 2429.7188850 best: 2429.7188850 (79) total: 1.32s remaining: 331ms
80: learn: 2418.8485257 test: 2420.4181455 best: 2420.4181455 (80) total: 1.34s remaining: 315ms
81: learn: 2409.4674082 test: 2410.6759895 best: 2410.6759895 (81) total: 1.36s remaining: 298ms
82: learn: 2400.2584174 test: 2401.0660686 best: 2401.0660686 (82) total: 1.37s remaining: 281ms
83: learn: 2391.9892391 test: 2392.4563665 best: 2392.4563665 (83) total: 1.39s remaining: 264ms
84: learn: 2383.5611407 test: 2383.6818991 best: 2383.6818991 (84) total: 1.4s remaining: 247ms
85: learn: 2376.3216079 test: 2376.2718254 best: 2376.2718254 (85) total: 1.42s remaining: 231ms
86: learn: 2368.4904699 test: 2368.2747132 best: 2368.2747132 (86) total: 1.43s remaining: 214ms
87: learn: 2361.1335893 test: 2360.5894557 best: 2360.5894557 (87) total: 1.45s remaining: 197ms
88: learn: 2352.7978574 test: 2351.9643045 best: 2351.9643045 (88) total: 1.46s remaining: 181ms
89: learn: 2345.7577604 test: 2344.5564906 best: 2344.5564906 (89) total: 1.48s remaining: 164ms
90: learn: 2339.0871392 test: 2337.6174958 best: 2337.6174958 (90) total: 1.49s remaining: 148ms
91: learn: 2332.3520730 test: 2330.3994468 best: 2330.3994468 (91) total: 1.51s remaining: 131ms
92: learn: 2326.1868045 test: 2323.9754766 best: 2323.9754766 (92) total: 1.52s remaining: 115ms
93: learn: 2319.1804781 test: 2316.8113855 best: 2316.8113855 (93) total: 1.54s remaining: 98.3ms

94: learn: 2313.5748739 test: 2311.1490472 best: 2311.1490472 (94) total: 1.55s remaining: 81.8ms
95: learn: 2307.7236713 test: 2305.1151681 best: 2305.1151681 (95) total: 1.57s remaining: 65.4ms
96: learn: 2302.1205980 test: 2299.5116060 best: 2299.5116060 (96) total: 1.58s remaining: 49ms
97: learn: 2296.4560063 test: 2293.5697068 best: 2293.5697068 (97) total: 1.6s remaining: 32.6ms
98: learn: 2291.4227706 test: 2288.3575877 best: 2288.3575877 (98) total: 1.61s remaining: 16.3ms
99: learn: 2285.8188807 test: 2282.2860149 best: 2282.2860149 (99) total: 1.63s remaining: 0us

bestTest = 2282.286015

bestIteration = 99

28: loss: 2282.2860149 best: 1894.2522294 (27) total: 58s remaining: 2m 13s
0: learn: 6410.7448915 test: 6438.8543649 best: 6438.8543649 (0) total: 16.5ms remaining: 1.64s
1: learn: 5902.9147828 test: 5929.7023142 best: 5929.7023142 (1) total: 33ms remaining: 1.62s
2: learn: 5454.9518644 test: 5481.9714086 best: 5481.9714086 (2) total: 48.7ms remaining: 1.57s
3: learn: 5062.8192179 test: 5090.3440109 best: 5090.3440109 (3) total: 63.9ms remaining: 1.53s
4: learn: 4707.7163674 test: 4734.6824972 best: 4734.6824972 (4) total: 88.4ms remaining: 1.68s
5: learn: 4396.3963781 test: 4423.3128630 best: 4423.3128630 (5) total: 109ms remaining: 1.71s
6: learn: 4126.3274495 test: 4152.3592630 best: 4152.3592630 (6) total: 130ms remaining: 1.73s
7: learn: 3885.2494478 test: 3910.2672178 best: 3910.2672178 (7) total: 149ms remaining: 1.71s
8: learn: 3673.4523330 test: 3696.6046848 best: 3696.6046848 (8) total: 169ms remaining: 1.71s
9: learn: 3488.9451741 test: 3510.6983239 best: 3510.6983239 (9) total: 188ms remaining: 1.69s
10: learn: 3330.3703222 test: 3351.1933805 best: 3351.1933805 (10) total: 217ms remaining: 1.75s
11: learn: 3189.4619049 test: 3209.2234248 best: 3209.2234248 (11) total: 238ms remaining: 1.75s
12: learn: 3072.6221062 test: 3090.5485193 best: 3090.5485193 (12) total: 258ms remaining: 1.73s
13: learn: 2962.1008776 test: 2978.4508107 best: 2978.4508107 (13) total: 285ms remaining: 1.75s
14: learn: 2871.4359760 test: 2886.1431357 best: 2886.1431357 (14) total: 300ms remaining: 1.7s
15: learn: 2792.3077335 test: 2804.5908983 best: 2804.5908983 (15) total: 316ms remaining: 1.66s
16: learn: 2723.8211788 test: 2735.2005377 best: 2735.2005377 (16) total: 334ms remaining: 1.63s
17: learn: 2663.4854236 test: 2672.8265131 best: 2672.8265131 (17) total: 349ms remaining: 1.59s
18: learn: 2609.4610821 test: 2618.1210979 best: 2618.1210979 (18) total: 366ms remaining: 1.56s
19: learn: 2563.1023719 test: 2570.9781324 best: 2570.9781324 (19) total: 383ms remaining: 1.53s
20: learn: 2516.3627278 test: 2522.6489141 best: 2522.6489141 (20) total: 398ms remaining: 1.5s
21: learn: 2476.9616758 test: 2481.8573661 best: 2481.8573661 (21) total: 412ms remaining: 1.46s
22: learn: 2440.7974362 test: 2444.6345109 best: 2444.6345109 (22) total: 427ms remaining: 1.43s
23: learn: 2407.4738753 test: 2409.9780900 best: 2409.9780900 (23) total: 443ms remaining: 1.4s
24: learn: 2378.9071519 test: 2380.3458861 best: 2380.3458861 (24) total: 458ms remaining: 1.38s
25: learn: 2355.0608747 test: 2355.2448591 best: 2355.2448591 (25) total: 480ms remaining: 1.36s
26: learn: 2332.7457154 test: 2332.5155126 best: 2332.5155126 (26) total: 496ms remaining: 1.34s
27: learn: 2312.8417631 test: 2312.3556075 best: 2312.3556075 (27) total: 512ms remaining: 1.31s
28: learn: 2293.6695306 test: 2293.0290639 best: 2293.0290639 (28) total: 527ms remaining: 1.29s
29: learn: 2276.0473957 test: 2274.4582896 best: 2274.4582896 (29) total: 542ms remaining: 1.26s
30: learn: 2259.7833348 test: 2257.5379996 best: 2257.5379996 (30) total: 557ms remaining: 1.24s

30: learn: 2230.7333333 test: 2230.7333333 best: 2230.7333333 (30) total: 557ms remaining: 1.2s
31: learn: 2243.3622174 test: 2240.7185295 best: 2240.7185295 (31) total: 574ms remaining: 1.22s
32: learn: 2229.0987003 test: 2225.2623108 best: 2225.2623108 (32) total: 589ms remaining: 1.2s
33: learn: 2217.6802803 test: 2213.0629755 best: 2213.0629755 (33) total: 604ms remaining: 1.17s
34: learn: 2203.3671648 test: 2198.3638944 best: 2198.3638944 (34) total: 621ms remaining: 1.15s
35: learn: 2192.9049417 test: 2187.3274414 best: 2187.3274414 (35) total: 636ms remaining: 1.13s
36: learn: 2181.9985066 test: 2176.3650331 best: 2176.3650331 (36) total: 651ms remaining: 1.11s
37: learn: 2171.7500977 test: 2165.9320501 best: 2165.9320501 (37) total: 672ms remaining: 1.1s
38: learn: 2162.4671379 test: 2156.2565302 best: 2156.2565302 (38) total: 687ms remaining: 1.07s
39: learn: 2154.3642612 test: 2147.7332384 best: 2147.7332384 (39) total: 702ms remaining: 1.05s
40: learn: 2144.8238683 test: 2137.9799623 best: 2137.9799623 (40) total: 718ms remaining: 1.03s
41: learn: 2132.2280743 test: 2124.6574800 best: 2124.6574800 (41) total: 734ms remaining: 1.01s
42: learn: 2123.7962854 test: 2116.3924126 best: 2116.3924126 (42) total: 749ms remaining: 993ms
43: learn: 2116.7745707 test: 2109.4789082 best: 2109.4789082 (43) total: 764ms remaining: 973ms
44: learn: 2109.4816015 test: 2101.9939679 best: 2101.9939679 (44) total: 781ms remaining: 954ms
45: learn: 2102.8827375 test: 2095.7032734 best: 2095.7032734 (45) total: 796ms remaining: 935ms
46: learn: 2096.5764173 test: 2089.7544641 best: 2089.7544641 (46) total: 812ms remaining: 916ms
47: learn: 2088.8000309 test: 2081.7813805 best: 2081.7813805 (47) total: 828ms remaining: 897ms
48: learn: 2081.6349878 test: 2074.1541857 best: 2074.1541857 (48) total: 844ms remaining: 879ms
49: learn: 2075.6786548 test: 2068.0500727 best: 2068.0500727 (49) total: 860ms remaining: 860ms
50: learn: 2067.9842614 test: 2060.1500310 best: 2060.1500310 (50) total: 878ms remaining: 844ms
51: learn: 2062.7097661 test: 2055.1746152 best: 2055.1746152 (51) total: 895ms remaining: 826ms
52: learn: 2058.4387689 test: 2050.7952359 best: 2050.7952359 (52) total: 910ms remaining: 807ms
53: learn: 2054.0561096 test: 2046.4044624 best: 2046.4044624 (53) total: 925ms remaining: 788ms
54: learn: 2048.7058161 test: 2040.9899185 best: 2040.9899185 (54) total: 940ms remaining: 769ms
55: learn: 2042.8547693 test: 2034.7338477 best: 2034.7338477 (55) total: 954ms remaining: 749ms
56: learn: 2037.9313662 test: 2029.8631212 best: 2029.8631212 (56) total: 974ms remaining: 735ms
57: learn: 2033.1186916 test: 2025.1284079 best: 2025.1284079 (57) total: 989ms remaining: 716ms
58: learn: 2028.6281771 test: 2021.3189144 best: 2021.3189144 (58) total: 1s remaining: 697ms
59: learn: 2024.9633947 test: 2017.5590714 best: 2017.5590714 (59) total: 1.02s remaining: 679ms
60: learn: 2019.0044095 test: 2011.4574647 best: 2011.4574647 (60) total: 1.03s remaining: 660ms
61: learn: 2015.4692309 test: 2008.2249387 best: 2008.2249387 (61) total: 1.05s remaining: 641ms
62: learn: 2009.2505756 test: 2001.5594503 best: 2001.5594503 (62) total: 1.06s remaining: 623ms
63: learn: 2006.0578762 test: 1998.0766673 best: 1998.0766673 (63) total: 1.08s remaining: 607ms
64: learn: 2002.8267678 test: 1994.8211197 best: 1994.8211197 (64) total: 1.09s remaining: 588ms
65: learn: 1998.2085456 test: 1990.1032958 best: 1990.1032958 (65) total: 1.11s remaining: 570ms
66: learn: 1995.2320680 test: 1987.4418227 best: 1987.4418227 (66) total: 1.12s remaining: 553ms
67: learn: 1992.6275219 test: 1984.9614905 best: 1984.9614905 (67) total: 1.14s remaining: 535ms
68: learn: 1988.3736889 test: 1980.7843341 best: 1980.7843341 (68) total: 1.15s remaining: 518ms
69: learn: 1985.0627054 test: 1977.5249086 best: 1977.5249086 (69) total: 1.17s remaining: 502ms
70: learn: 1979.5868340 test: 1972.1314534 best: 1972.1314534 (70) total: 1.19s remaining: 485ms
71: learn: 1977.3058819 test: 1970.0152159 best: 1970.0152159 (71) total: 1.2s remaining: 467ms

72: learn: 1972.9482940 test: 1965.4925938 best: 1965.4925938 (72) total: 1.22s remaining: 450ms
73: learn: 1970.5713339 test: 1962.8377553 best: 1962.8377553 (73) total: 1.23s remaining: 432ms
74: learn: 1967.9030916 test: 1960.4204353 best: 1960.4204353 (74) total: 1.25s remaining: 415ms
75: learn: 1965.7054595 test: 1958.3552607 best: 1958.3552607 (75) total: 1.26s remaining: 398ms
76: learn: 1962.8761500 test: 1955.6701680 best: 1955.6701680 (76) total: 1.28s remaining: 382ms
77: learn: 1960.5522053 test: 1953.2884748 best: 1953.2884748 (77) total: 1.29s remaining: 365ms
78: learn: 1956.4735126 test: 1948.9857026 best: 1948.9857026 (78) total: 1.31s remaining: 348ms
79: learn: 1952.7307746 test: 1945.3079084 best: 1945.3079084 (79) total: 1.32s remaining: 331ms
80: learn: 1949.7235752 test: 1942.2378752 best: 1942.2378752 (80) total: 1.34s remaining: 314ms
81: learn: 1946.8653698 test: 1939.5615954 best: 1939.5615954 (81) total: 1.35s remaining: 298ms
82: learn: 1944.3201673 test: 1936.6926794 best: 1936.6926794 (82) total: 1.37s remaining: 281ms
83: learn: 1941.8467799 test: 1933.9394222 best: 1933.9394222 (83) total: 1.39s remaining: 265ms
84: learn: 1937.0175638 test: 1928.8673989 best: 1928.8673989 (84) total: 1.4s remaining: 248ms
85: learn: 1934.4587698 test: 1926.0694023 best: 1926.0694023 (85) total: 1.42s remaining: 231ms
86: learn: 1931.9307870 test: 1923.5791898 best: 1923.5791898 (86) total: 1.43s remaining: 214ms
87: learn: 1929.8287961 test: 1921.3314182 best: 1921.3314182 (87) total: 1.45s remaining: 198ms
88: learn: 1926.9130409 test: 1918.3145131 best: 1918.3145131 (88) total: 1.47s remaining: 181ms
89: learn: 1924.2112212 test: 1915.6652403 best: 1915.6652403 (89) total: 1.48s remaining: 165ms
90: learn: 1922.4746957 test: 1913.9700190 best: 1913.9700190 (90) total: 1.5s remaining: 148ms
91: learn: 1920.9917789 test: 1912.6338313 best: 1912.6338313 (91) total: 1.51s remaining: 131ms
92: learn: 1919.5776687 test: 1911.6274543 best: 1911.6274543 (92) total: 1.52s remaining: 115ms
93: learn: 1917.8492714 test: 1909.8999381 best: 1909.8999381 (93) total: 1.54s remaining: 98.2ms
94: learn: 1916.4625598 test: 1908.4476186 best: 1908.4476186 (94) total: 1.55s remaining: 81.7ms
95: learn: 1914.6885677 test: 1906.5442397 best: 1906.5442397 (95) total: 1.57s remaining: 65.5ms
96: learn: 1913.1094487 test: 1905.0379993 best: 1905.0379993 (96) total: 1.58s remaining: 49ms
97: learn: 1911.0847556 test: 1903.1718920 best: 1903.1718920 (97) total: 1.6s remaining: 32.6ms
98: learn: 1909.3541314 test: 1901.3940392 best: 1901.3940392 (98) total: 1.61s remaining: 16.3ms
99: learn: 1906.1127986 test: 1897.9018000 best: 1897.9018000 (99) total: 1.63s remaining: 0us

bestTest = 1897.9018

bestIteration = 99

29: loss: 1897.9018000 best: 1894.2522294 (27) total: 59.6s remaining: 2m 11s
0: learn: 6809.5911264 test: 6837.6947643 best: 6837.6947643 (0) total: 16.8ms remaining: 1.66s
1: learn: 6643.2483021 test: 6671.0025107 best: 6671.0025107 (1) total: 33.3ms remaining: 1.63s
2: learn: 6482.9571099 test: 6510.8458279 best: 6510.8458279 (2) total: 49.4ms remaining: 1.6s
3: learn: 6329.5676364 test: 6357.8057277 best: 6357.8057277 (3) total: 65.9ms remaining: 1.58s
4: learn: 6180.1422858 test: 6208.5797843 best: 6208.5797843 (4) total: 81.3ms remaining: 1.54s
5: learn: 6034.1445542 test: 6062.6329074 best: 6062.6329074 (5) total: 96.4ms remaining: 1.51s
6: learn: 5894.2979470 test: 5922.8820862 best: 5922.8820862 (6) total: 112ms remaining: 1.48s
7: learn: 5758.9397497 test: 5787.2619637 best: 5787.2619637 (7) total: 131ms remaining: 1.51s

8: learn: 5627.3568505 test: 5655.4649212 best: 5655.4649212 (8) total: 147ms remaining: 1.49s
9: learn: 5502.0029990 test: 5530.1229382 best: 5530.1229382 (9) total: 163ms remaining: 1.47s
10: learn: 5380.6040428 test: 5408.7003392 best: 5408.7003392 (10) total: 178ms remaining: 1.44s
11: learn: 5263.0798910 test: 5291.2078913 best: 5291.2078913 (11) total: 194ms remaining: 1.42s
12: learn: 5149.6075012 test: 5177.6264811 best: 5177.6264811 (12) total: 210ms remaining: 1.41s
13: learn: 5040.3371725 test: 5068.2801209 best: 5068.2801209 (13) total: 230ms remaining: 1.41s
14: learn: 4934.9091451 test: 4962.7948385 best: 4962.7948385 (14) total: 245ms remaining: 1.39s
15: learn: 4833.4876745 test: 4861.0281523 best: 4861.0281523 (15) total: 261ms remaining: 1.37s
16: learn: 4734.9057031 test: 4762.1674585 best: 4762.1674585 (16) total: 277ms remaining: 1.35s
17: learn: 4640.5173837 test: 4667.3794359 best: 4667.3794359 (17) total: 293ms remaining: 1.33s
18: learn: 4550.4524760 test: 4577.0114997 best: 4577.0114997 (18) total: 308ms remaining: 1.31s
19: learn: 4462.7703029 test: 4489.1840145 best: 4489.1840145 (19) total: 327ms remaining: 1.31s
20: learn: 4377.4072881 test: 4403.4490690 best: 4403.4490690 (20) total: 342ms remaining: 1.29s
21: learn: 4295.5051823 test: 4321.1947760 best: 4321.1947760 (21) total: 357ms remaining: 1.27s
22: learn: 4215.1357896 test: 4240.8818600 best: 4240.8818600 (22) total: 372ms remaining: 1.25s
23: learn: 4138.3172843 test: 4164.0233688 best: 4164.0233688 (23) total: 388ms remaining: 1.23s
24: learn: 4065.4955830 test: 4090.7948613 best: 4090.7948613 (24) total: 404ms remaining: 1.21s
25: learn: 3994.2436598 test: 4019.0032529 best: 4019.0032529 (25) total: 422ms remaining: 1.2s
26: learn: 3925.0219289 test: 3949.6571038 best: 3949.6571038 (26) total: 438ms remaining: 1.18s
27: learn: 3861.4917439 test: 3885.6761357 best: 3885.6761357 (27) total: 453ms remaining: 1.17s
28: learn: 3798.1577346 test: 3821.8960091 best: 3821.8960091 (28) total: 469ms remaining: 1.15s
29: learn: 3737.3400264 test: 3760.5300756 best: 3760.5300756 (29) total: 487ms remaining: 1.14s
30: learn: 3678.5478051 test: 3701.5374379 best: 3701.5374379 (30) total: 506ms remaining: 1.13s
31: learn: 3621.4254251 test: 3643.9467298 best: 3643.9467298 (31) total: 526ms remaining: 1.12s
32: learn: 3568.4081801 test: 3590.6392555 best: 3590.6392555 (32) total: 541ms remaining: 1.1s
33: learn: 3516.3936894 test: 3538.1452072 best: 3538.1452072 (33) total: 557ms remaining: 1.08s
34: learn: 3466.3280972 test: 3487.2395717 best: 3487.2395717 (34) total: 571ms remaining: 1.06s
35: learn: 3418.2881546 test: 3438.8360989 best: 3438.8360989 (35) total: 588ms remaining: 1.04s
36: learn: 3371.6774496 test: 3391.7254501 best: 3391.7254501 (36) total: 604ms remaining: 1.03s
37: learn: 3328.2846946 test: 3348.0442232 best: 3348.0442232 (37) total: 621ms remaining: 1.01s
38: learn: 3284.1667460 test: 3303.2872628 best: 3303.2872628 (38) total: 636ms remaining: 995ms
39: learn: 3243.2716783 test: 3261.6157415 best: 3261.6157415 (39) total: 652ms remaining: 977ms
40: learn: 3204.3368976 test: 3222.4220943 best: 3222.4220943 (40) total: 668ms remaining: 961ms
41: learn: 3165.6694587 test: 3183.1942089 best: 3183.1942089 (41) total: 683ms remaining: 943ms
42: learn: 3130.8422755 test: 3147.9289814 best: 3147.9289814 (42) total: 700ms remaining: 927ms
43: learn: 3096.8496609 test: 3113.4858677 best: 3113.4858677 (43) total: 720ms remaining: 917ms
44: learn: 3063.9869014 test: 3080.0064556 best: 3080.0064556 (44) total: 736ms remaining: 900ms
45: learn: 3031.7171124 test: 3047.1573483 best: 3047.1573483 (45) total: 752ms remaining: 883ms
46: learn: 3001.6038949 test: 3016.7315323 best: 3016.7315323 (46) total: 767ms remaining: 865ms
47: learn: 2971.7299885 test: 2986.1009786 best: 2986.1009786 (47) total: 783ms remaining: 848ms
48: learn: 2943.2426778 test: 2957.2658960 best: 2957.2658960 (48) total: 798ms remaining: 831ms
49: learn: 2915.5202264 test: 2932.4705281 best: 2932.4705281 (49) total: 815ms remaining: 815ms

49: learn: 2915.5903981 test: 2929.4705634 best: 2929.4705634 (49) total: 815ms remaining: 815ms
50: learn: 2889.9838322 test: 2903.6180317 best: 2903.6180317 (50) total: 830ms remaining: 798ms
51: learn: 2864.1427938 test: 2877.1273749 best: 2877.1273749 (51) total: 846ms remaining: 781ms
52: learn: 2839.4766490 test: 2851.9018427 best: 2851.9018427 (52) total: 862ms remaining: 764ms
53: learn: 2816.9597918 test: 2829.0819467 best: 2829.0819467 (53) total: 878ms remaining: 748ms
54: learn: 2794.5688200 test: 2806.1824930 best: 2806.1824930 (54) total: 894ms remaining: 731ms
55: learn: 2773.6082186 test: 2784.5801988 best: 2784.5801988 (55) total: 915ms remaining: 719ms
56: learn: 2752.9588334 test: 2763.4082338 best: 2763.4082338 (56) total: 931ms remaining: 703ms
57: learn: 2733.1213575 test: 2743.3987830 best: 2743.3987830 (57) total: 948ms remaining: 686ms
58: learn: 2714.4687581 test: 2724.3235903 best: 2724.3235903 (58) total: 965ms remaining: 671ms
59: learn: 2695.1937965 test: 2704.4979610 best: 2704.4979610 (59) total: 981ms remaining: 654ms
60: learn: 2677.2789568 test: 2686.1038231 best: 2686.1038231 (60) total: 997ms remaining: 637ms
61: learn: 2659.9206918 test: 2668.3723625 best: 2668.3723625 (61) total: 1.01s remaining: 621ms
62: learn: 2642.1821263 test: 2650.2115498 best: 2650.2115498 (62) total: 1.03s remaining: 604ms
63: learn: 2626.6260223 test: 2634.4140552 best: 2634.4140552 (63) total: 1.04s remaining: 587ms
64: learn: 2610.8796566 test: 2618.5300793 best: 2618.5300793 (64) total: 1.06s remaining: 571ms
65: learn: 2596.4773755 test: 2603.8878615 best: 2603.8878615 (65) total: 1.07s remaining: 554ms
66: learn: 2581.6977090 test: 2588.6888733 best: 2588.6888733 (66) total: 1.09s remaining: 537ms
67: learn: 2568.4587686 test: 2574.8573656 best: 2574.8573656 (67) total: 1.1s remaining: 520ms
68: learn: 2555.2912334 test: 2561.4670750 best: 2561.4670750 (68) total: 1.12s remaining: 505ms
69: learn: 2540.9954074 test: 2546.5734171 best: 2546.5734171 (69) total: 1.14s remaining: 489ms
70: learn: 2528.3909193 test: 2533.4840388 best: 2533.4840388 (70) total: 1.16s remaining: 472ms
71: learn: 2516.0482404 test: 2520.7480852 best: 2520.7480852 (71) total: 1.17s remaining: 456ms
72: learn: 2504.3848175 test: 2508.9570220 best: 2508.9570220 (72) total: 1.19s remaining: 440ms
73: learn: 2492.2622642 test: 2496.2796934 best: 2496.2796934 (73) total: 1.21s remaining: 425ms
74: learn: 2480.6517978 test: 2484.2996876 best: 2484.2996876 (74) total: 1.23s remaining: 408ms
75: learn: 2469.7501508 test: 2472.9051033 best: 2472.9051033 (75) total: 1.24s remaining: 392ms
76: learn: 2459.5847491 test: 2462.5127861 best: 2462.5127861 (76) total: 1.26s remaining: 375ms
77: learn: 2449.8903457 test: 2452.5727174 best: 2452.5727174 (77) total: 1.27s remaining: 359ms
78: learn: 2440.3247457 test: 2442.8892102 best: 2442.8892102 (78) total: 1.29s remaining: 342ms
79: learn: 2430.0826227 test: 2432.2608663 best: 2432.2608663 (79) total: 1.3s remaining: 326ms
80: learn: 2420.1285507 test: 2421.9038659 best: 2421.9038659 (80) total: 1.32s remaining: 310ms
81: learn: 2410.7557733 test: 2412.1708712 best: 2412.1708712 (81) total: 1.34s remaining: 293ms
82: learn: 2402.3174793 test: 2403.4921204 best: 2403.4921204 (82) total: 1.35s remaining: 277ms
83: learn: 2393.9042826 test: 2394.6388113 best: 2394.6388113 (83) total: 1.37s remaining: 260ms
84: learn: 2385.4661683 test: 2385.7445438 best: 2385.7445438 (84) total: 1.38s remaining: 244ms
85: learn: 2377.8657073 test: 2378.0345490 best: 2378.0345490 (85) total: 1.4s remaining: 227ms
86: learn: 2370.1443081 test: 2370.1388895 best: 2370.1388895 (86) total: 1.42s remaining: 212ms
87: learn: 2362.9954095 test: 2362.3921418 best: 2362.3921418 (87) total: 1.43s remaining: 195ms
88: learn: 2354.6622677 test: 2353.7691583 best: 2353.7691583 (88) total: 1.45s remaining: 179ms
89: learn: 2348.0038395 test: 2346.9618186 best: 2346.9618186 (89) total: 1.46s remaining: 163ms
90: learn: 2341.0710647 test: 2339.6935914 best: 2339.6935914 (90) total: 1.48s remaining: 146ms

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91: learn: 2334.3067560 test: 2332.4437856 best: 2332.4437856 (91) total: 1.49s remaining: 130ms
92: learn: 2328.0298665 test: 2325.9021744 best: 2325.9021744 (92) total: 1.51s remaining: 114ms
93: learn: 2321.1446439 test: 2318.8620438 best: 2318.8620438 (93) total: 1.53s remaining: 97.7ms
94: learn: 2315.5688826 test: 2313.2270771 best: 2313.2270771 (94) total: 1.55s remaining: 81.4ms
95: learn: 2309.6380361 test: 2307.1114110 best: 2307.1114110 (95) total: 1.56s remaining: 65.1ms
96: learn: 2304.0329085 test: 2301.3217597 best: 2301.3217597 (96) total: 1.58s remaining: 48.8ms
97: learn: 2298.5109434 test: 2295.5226072 best: 2295.5226072 (97) total: 1.59s remaining: 32.5ms
98: learn: 2293.4550520 test: 2290.2682897 best: 2290.2682897 (98) total: 1.61s remaining: 16.3ms
99: learn: 2287.5656071 test: 2284.2654606 best: 2284.2654606 (99) total: 1.63s remaining: 0us
```

bestTest = 2284.265461

bestIteration = 99

```
30: loss: 2284.2654606 best: 1894.2522294 (27) total: 1m 1s remaining: 2m 8s
0: learn: 6410.8563575 test: 6438.9654331 best: 6438.9654331 (0) total: 18.1ms remaining: 1.8s
1: learn: 5903.2131031 test: 5930.0088410 best: 5930.0088410 (1) total: 35.7ms remaining: 1.75s
2: learn: 5455.2944827 test: 5482.3219094 best: 5482.3219094 (2) total: 52.9ms remaining: 1.71s
3: learn: 5063.2561028 test: 5090.7878631 best: 5090.7878631 (3) total: 69.9ms remaining: 1.68s
4: learn: 4708.2043813 test: 4735.1782050 best: 4735.1782050 (4) total: 86.3ms remaining: 1.64s
5: learn: 4396.9114314 test: 4423.8356541 best: 4423.8356541 (5) total: 102ms remaining: 1.6s
6: learn: 4126.8924396 test: 4152.9342398 best: 4152.9342398 (6) total: 120ms remaining: 1.59s
7: learn: 3885.8066488 test: 3910.8343585 best: 3910.8343585 (7) total: 137ms remaining: 1.58s
8: learn: 3674.0046949 test: 3697.1686075 best: 3697.1686075 (8) total: 161ms remaining: 1.63s
9: learn: 3489.5004507 test: 3511.2678944 best: 3511.2678944 (9) total: 177ms remaining: 1.6s
10: learn: 3330.9076031 test: 3351.7450346 best: 3351.7450346 (10) total: 194ms remaining: 1.57s
11: learn: 3189.9682209 test: 3209.7451065 best: 3209.7451065 (11) total: 211ms remaining: 1.54s
12: learn: 3073.0928377 test: 3091.0349980 best: 3091.0349980 (12) total: 226ms remaining: 1.51s
13: learn: 2962.5480819 test: 2978.9149769 best: 2978.9149769 (13) total: 241ms remaining: 1.48s
14: learn: 2871.8623620 test: 2886.5874795 best: 2886.5874795 (14) total: 256ms remaining: 1.45s
15: learn: 2792.7588890 test: 2805.0597867 best: 2805.0597867 (15) total: 274ms remaining: 1.44s
16: learn: 2724.3178669 test: 2735.7174250 best: 2735.7174250 (16) total: 289ms remaining: 1.41s
17: learn: 2663.9725716 test: 2673.3339101 best: 2673.3339101 (17) total: 305ms remaining: 1.39s
18: learn: 2609.9803939 test: 2618.6599891 best: 2618.6599891 (18) total: 320ms remaining: 1.36s
19: learn: 2563.6073493 test: 2571.5004126 best: 2571.5004126 (19) total: 336ms remaining: 1.34s
20: learn: 2516.8527641 test: 2523.1579557 best: 2523.1579557 (20) total: 352ms remaining: 1.32s
21: learn: 2477.4697981 test: 2482.3870286 best: 2482.3870286 (21) total: 373ms remaining: 1.32s
22: learn: 2441.3147269 test: 2445.1726733 best: 2445.1726733 (22) total: 390ms remaining: 1.3s
23: learn: 2407.9832093 test: 2410.5104652 best: 2410.5104652 (23) total: 407ms remaining: 1.29s
24: learn: 2379.4113671 test: 2380.8693763 best: 2380.8693763 (24) total: 422ms remaining: 1.27s
25: learn: 2355.5790391 test: 2355.7674494 best: 2355.7674494 (25) total: 437ms remaining: 1.24s
26: learn: 2330.7857603 test: 2330.4142020 best: 2330.4142020 (26) total: 453ms remaining: 1.22s
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27: learn: 2309.8362764 test: 2309.3350725 best: 2309.3350725 (27) total: 469ms remaining: 1.21s
28: learn: 2290.8002853 test: 2289.9803061 best: 2289.9803061 (28) total: 484ms remaining: 1.19s
29: learn: 2272.2162150 test: 2270.1661252 best: 2270.1661252 (29) total: 500ms remaining: 1.17s
30: learn: 2256.1809039 test: 2253.4531101 best: 2253.4531101 (30) total: 515ms remaining: 1.15s
31: learn: 2242.2960854 test: 2239.0518254 best: 2239.0518254 (31) total: 530ms remaining: 1.13s
32: learn: 2227.2989049 test: 2223.6509977 best: 2223.6509977 (32) total: 545ms remaining: 1.11s
33: learn: 2214.0723893 test: 2209.6572095 best: 2209.6572095 (33) total: 565ms remaining: 1.1s
34: learn: 2201.0360809 test: 2195.3778727 best: 2195.3778727 (34) total: 580ms remaining: 1.08s
35: learn: 2189.1469563 test: 2183.2895826 best: 2183.2895826 (35) total: 595ms remaining: 1.06s
36: learn: 2178.4932055 test: 2172.6689740 best: 2172.6689740 (36) total: 609ms remaining: 1.04s
37: learn: 2168.6160872 test: 2162.7735536 best: 2162.7735536 (37) total: 624ms remaining: 1.02s
38: learn: 2159.3351194 test: 2153.1293883 best: 2153.1293883 (38) total: 639ms remaining: 999ms
39: learn: 2152.1185059 test: 2145.9140317 best: 2145.9140317 (39) total: 653ms remaining: 979ms
40: learn: 2142.7534589 test: 2135.5190701 best: 2135.5190701 (40) total: 668ms remaining: 962ms
41: learn: 2134.2066501 test: 2126.9061039 best: 2126.9061039 (41) total: 683ms remaining: 943ms
42: learn: 2125.1093732 test: 2117.7965745 best: 2117.7965745 (42) total: 697ms remaining: 924ms
43: learn: 2117.3190910 test: 2110.0573593 best: 2110.0573593 (43) total: 712ms remaining: 906ms
44: learn: 2109.1933137 test: 2101.9995505 best: 2101.9995505 (44) total: 727ms remaining: 889ms
45: learn: 2103.3141567 test: 2096.3142349 best: 2096.3142349 (45) total: 742ms remaining: 871ms
46: learn: 2095.6002071 test: 2088.7080793 best: 2088.7080793 (46) total: 762ms remaining: 859ms
47: learn: 2090.2258447 test: 2082.8044096 best: 2082.8044096 (47) total: 776ms remaining: 840ms
48: learn: 2082.6997059 test: 2075.3699804 best: 2075.3699804 (48) total: 792ms remaining: 825ms
49: learn: 2077.3285753 test: 2069.7505674 best: 2069.7505674 (49) total: 807ms remaining: 807ms
50: learn: 2070.3239630 test: 2062.3577634 best: 2062.3577634 (50) total: 821ms remaining: 789ms
51: learn: 2063.7094398 test: 2055.5857356 best: 2055.5857356 (51) total: 836ms remaining: 772ms
52: learn: 2055.0336094 test: 2046.3709925 best: 2046.3709925 (52) total: 851ms remaining: 755ms
53: learn: 2049.8194997 test: 2041.3140751 best: 2041.3140751 (53) total: 866ms remaining: 738ms
54: learn: 2044.0805026 test: 2035.6882902 best: 2035.6882902 (54) total: 882ms remaining: 722ms
55: learn: 2037.0147065 test: 2028.6936133 best: 2028.6936133 (55) total: 900ms remaining: 707ms
56: learn: 2033.0685160 test: 2024.6344489 best: 2024.6344489 (56) total: 919ms remaining: 693ms
57: learn: 2027.9440339 test: 2019.3483677 best: 2019.3483677 (57) total: 935ms remaining: 677ms
58: learn: 2024.0005575 test: 2015.8194779 best: 2015.8194779 (58) total: 955ms remaining: 664ms
59: learn: 2020.4413416 test: 2012.7127990 best: 2012.7127990 (59) total: 971ms remaining: 647ms
60: learn: 2015.4166541 test: 2007.3946204 best: 2007.3946204 (60) total: 988ms remaining: 632ms
61: learn: 2008.7283551 test: 2000.2649357 best: 2000.2649357 (61) total: 1.01s remaining: 619ms
62: learn: 2005.4946874 test: 1996.6852139 best: 1996.6852139 (62) total: 1.03s remaining: 603ms
63: learn: 2000.8927448 test: 1992.4709447 best: 1992.4709447 (63) total: 1.04s remaining: 588ms
64: learn: 1997.6890538 test: 1989.9376270 best: 1989.9376270 (64) total: 1.06s remaining: 572ms
65: learn: 1994.9043786 test: 1987.2822193 best: 1987.2822193 (65) total: 1.08s remaining: 555ms
66: learn: 1990.1166664 test: 1982.5859875 best: 1982.5859875 (66) total: 1.09s remaining: 538ms
67: learn: 1985.3943712 test: 1977.6281413 best: 1977.6281413 (67) total: 1.11s remaining: 522ms

68: learn: 1981.3596273 test: 1973.5790224 best: 1973.5790224 (68) total: 1.13s remaining: 506ms
69: learn: 1978.1899636 test: 1970.4107169 best: 1970.4107169 (69) total: 1.14s remaining: 489ms
70: learn: 1974.9538359 test: 1967.2417854 best: 1967.2417854 (70) total: 1.16s remaining: 474ms
71: learn: 1972.3509579 test: 1964.9209533 best: 1964.9209533 (71) total: 1.18s remaining: 457ms
72: learn: 1969.8338184 test: 1962.3971175 best: 1962.3971175 (72) total: 1.19s remaining: 441ms
73: learn: 1966.5136708 test: 1959.0656134 best: 1959.0656134 (73) total: 1.21s remaining: 424ms
74: learn: 1963.3422020 test: 1955.7896319 best: 1955.7896319 (74) total: 1.22s remaining: 407ms
75: learn: 1961.4036799 test: 1953.9555577 best: 1953.9555577 (75) total: 1.24s remaining: 390ms
76: learn: 1958.0209155 test: 1950.5532077 best: 1950.5532077 (76) total: 1.25s remaining: 375ms
77: learn: 1955.7053619 test: 1947.9802817 best: 1947.9802817 (77) total: 1.27s remaining: 358ms
78: learn: 1952.3220009 test: 1944.4908028 best: 1944.4908028 (78) total: 1.28s remaining: 342ms
79: learn: 1948.7429131 test: 1940.9109921 best: 1940.9109921 (79) total: 1.3s remaining: 325ms
80: learn: 1946.2545293 test: 1938.5374947 best: 1938.5374947 (80) total: 1.32s remaining: 309ms
81: learn: 1943.9573775 test: 1936.3659301 best: 1936.3659301 (81) total: 1.33s remaining: 292ms
82: learn: 1941.0623325 test: 1933.5441411 best: 1933.5441411 (82) total: 1.35s remaining: 277ms
83: learn: 1939.1062797 test: 1931.4513584 best: 1931.4513584 (83) total: 1.37s remaining: 260ms
84: learn: 1935.9810606 test: 1928.1626750 best: 1928.1626750 (84) total: 1.38s remaining: 244ms
85: learn: 1933.7918251 test: 1926.1513009 best: 1926.1513009 (85) total: 1.4s remaining: 228ms
86: learn: 1930.3745545 test: 1922.7115759 best: 1922.7115759 (86) total: 1.42s remaining: 212ms
87: learn: 1927.4783038 test: 1920.1541361 best: 1920.1541361 (87) total: 1.43s remaining: 195ms
88: learn: 1925.6474861 test: 1918.3832964 best: 1918.3832964 (88) total: 1.45s remaining: 179ms
89: learn: 1923.1310904 test: 1915.8717224 best: 1915.8717224 (89) total: 1.47s remaining: 163ms
90: learn: 1921.6201360 test: 1914.3601751 best: 1914.3601751 (90) total: 1.48s remaining: 146ms
91: learn: 1919.8134748 test: 1912.7972947 best: 1912.7972947 (91) total: 1.49s remaining: 130ms
92: learn: 1918.5103427 test: 1911.8318675 best: 1911.8318675 (92) total: 1.51s remaining: 113ms
93: learn: 1916.1805795 test: 1909.1761589 best: 1909.1761589 (93) total: 1.52s remaining: 97.1ms
94: learn: 1914.6086252 test: 1907.7159367 best: 1907.7159367 (94) total: 1.54s remaining: 80.8ms
95: learn: 1911.7369775 test: 1905.0686837 best: 1905.0686837 (95) total: 1.55s remaining: 64.7ms
96: learn: 1910.2336851 test: 1903.6638416 best: 1903.6638416 (96) total: 1.57s remaining: 48.5ms
97: learn: 1908.9637720 test: 1902.3378182 best: 1902.3378182 (97) total: 1.58s remaining: 32.2ms
98: learn: 1907.4874912 test: 1900.9777661 best: 1900.9777661 (98) total: 1.59s remaining: 16.1ms
99: learn: 1904.1972161 test: 1897.5020851 best: 1897.5020851 (99) total: 1.61s remaining: 0us

bestTest = 1897.502085

bestIteration = 99

31: loss: 1897.5020851 best: 1894.2522294 (27) total: 1m 2s remaining: 2m 5s

0: learn: 6809.5436209 test: 6837.6474412 best: 6837.6474412 (0) total: 17.5ms remaining: 2.61s

1: learn: 6643.1117314 test: 6670.8624882 best: 6670.8624882 (1) total: 37.5ms remaining: 2.78s

2: learn: 6482.7512816 test: 6510.6368635 best: 6510.6368635 (2) total: 53.7ms remaining: 2.63s

3: learn: 6329.2980269 test: 6357.5339551 best: 6357.5339551 (3) total: 69.3ms remaining: 2.53s

4: learn: 6170.7064870 test: 6299.9284502 best: 6299.9284502 (4) total: 84.0ms remaining: 2.46s

4: learn: 6179.7964879 test: 6208.2334528 best: 6208.2334528 (4) total: 84.9ms remaining: 2.46s
5: learn: 6033.7609502 test: 6062.2487252 best: 6062.2487252 (5) total: 100ms remaining: 2.41s
6: learn: 5893.8480464 test: 5922.4307237 best: 5922.4307237 (6) total: 116ms remaining: 2.36s
7: learn: 5758.4582888 test: 5786.7789202 best: 5786.7789202 (7) total: 134ms remaining: 2.37s
8: learn: 5626.8441414 test: 5654.9504927 best: 5654.9504927 (8) total: 150ms remaining: 2.35s
9: learn: 5501.4571187 test: 5529.5750570 best: 5529.5750570 (9) total: 166ms remaining: 2.33s
10: learn: 5380.0395024 test: 5408.1335869 best: 5408.1335869 (10) total: 183ms remaining: 2.31s
11: learn: 5262.5060481 test: 5290.6318421 best: 5290.6318421 (11) total: 198ms remaining: 2.28s
12: learn: 5149.0214802 test: 5177.0380816 best: 5177.0380816 (12) total: 215ms remaining: 2.27s
13: learn: 5039.7075252 test: 5067.6470681 best: 5067.6470681 (13) total: 234ms remaining: 2.27s
14: learn: 4934.2497318 test: 4962.1313163 best: 4962.1313163 (14) total: 249ms remaining: 2.24s
15: learn: 4832.7964082 test: 4860.3312628 best: 4860.3312628 (15) total: 266ms remaining: 2.22s
16: learn: 4734.2051334 test: 4761.4610309 best: 4761.4610309 (16) total: 281ms remaining: 2.2s
17: learn: 4639.7943333 test: 4666.6503436 best: 4666.6503436 (17) total: 300ms remaining: 2.2s
18: learn: 4549.7324254 test: 4576.2852243 best: 4576.2852243 (18) total: 320ms remaining: 2.21s
19: learn: 4462.0361731 test: 4488.4438064 best: 4488.4438064 (19) total: 339ms remaining: 2.21s
20: learn: 4376.6600626 test: 4402.6956412 best: 4402.6956412 (20) total: 356ms remaining: 2.18s
21: learn: 4294.7513536 test: 4320.4346537 best: 4320.4346537 (21) total: 371ms remaining: 2.16s
22: learn: 4214.3854330 test: 4240.1250143 best: 4240.1250143 (22) total: 388ms remaining: 2.14s
23: learn: 4137.5689638 test: 4163.2685760 best: 4163.2685760 (23) total: 403ms remaining: 2.12s
24: learn: 4064.7251716 test: 4090.0152853 best: 4090.0152853 (24) total: 422ms remaining: 2.11s
25: learn: 3993.4596386 test: 4018.2096185 best: 4018.2096185 (25) total: 438ms remaining: 2.09s
26: learn: 3924.2440920 test: 3948.8695344 best: 3948.8695344 (26) total: 453ms remaining: 2.06s
27: learn: 3860.7055233 test: 3884.8791066 best: 3884.8791066 (27) total: 468ms remaining: 2.04s
28: learn: 3797.3621877 test: 3821.0887194 best: 3821.0887194 (28) total: 484ms remaining: 2.02s
29: learn: 3736.5468942 test: 3759.7242522 best: 3759.7242522 (29) total: 500ms remaining: 2s
30: learn: 3677.7658897 test: 3700.7424619 best: 3700.7424619 (30) total: 519ms remaining: 1.99s
31: learn: 3620.6391965 test: 3643.1458438 best: 3643.1458438 (31) total: 536ms remaining: 1.98s
32: learn: 3567.6358792 test: 3589.8519299 best: 3589.8519299 (32) total: 552ms remaining: 1.96s
33: learn: 3515.6278870 test: 3537.3638811 best: 3537.3638811 (33) total: 568ms remaining: 1.94s
34: learn: 3465.5702900 test: 3486.4659652 best: 3486.4659652 (34) total: 583ms remaining: 1.92s
35: learn: 3417.5386382 test: 3438.0705880 best: 3438.0705880 (35) total: 598ms remaining: 1.89s
36: learn: 3370.9293181 test: 3390.9599745 best: 3390.9599745 (36) total: 617ms remaining: 1.89s
37: learn: 3327.5411365 test: 3347.2833292 best: 3347.2833292 (37) total: 633ms remaining: 1.86s
38: learn: 3283.4335318 test: 3302.5363793 best: 3302.5363793 (38) total: 648ms remaining: 1.84s
39: learn: 3242.5505373 test: 3260.8766818 best: 3260.8766818 (39) total: 663ms remaining: 1.82s
40: learn: 3203.6210525 test: 3221.6884657 best: 3221.6884657 (40) total: 679ms remaining: 1.8s
41: learn: 3164.9664145 test: 3182.4728929 best: 3182.4728929 (41) total: 695ms remaining: 1.79s
42: learn: 3130.1520150 test: 3147.2203190 best: 3147.2203190 (42) total: 711ms remaining: 1.77s
43: learn: 3095.8019919 test: 3112.2842404 best: 3112.2842404 (43) total: 729ms remaining: 1.75s
44: learn: 3062.6213283 test: 3078.5414012 best: 3078.5414012 (44) total: 744ms remaining: 1.74s
45: learn: 3030.3902621 test: 3045.7332576 best: 3045.7332576 (45) total: 760ms remaining: 1.72s

46: learn: 3000.2522052 test: 3015.2866081 best: 3015.2866081 (46) total: 775ms remaining: 1.7s
47: learn: 2970.3621801 test: 2985.0240954 best: 2985.0240954 (47) total: 790ms remaining: 1.68s
48: learn: 2942.0492102 test: 2956.3582460 best: 2956.3582460 (48) total: 806ms remaining: 1.66s
49: learn: 2914.5877472 test: 2928.7459760 best: 2928.7459760 (49) total: 824ms remaining: 1.65s
50: learn: 2889.0581177 test: 2902.9564693 best: 2902.9564693 (50) total: 839ms remaining: 1.63s
51: learn: 2863.1723592 test: 2876.4009070 best: 2876.4009070 (51) total: 855ms remaining: 1.61s
52: learn: 2838.6357406 test: 2851.3077074 best: 2851.3077074 (52) total: 870ms remaining: 1.59s
53: learn: 2816.1139158 test: 2828.5211819 best: 2828.5211819 (53) total: 884ms remaining: 1.57s
54: learn: 2793.6262245 test: 2805.5275975 best: 2805.5275975 (54) total: 900ms remaining: 1.55s
55: learn: 2772.2968010 test: 2783.4645556 best: 2783.4645556 (55) total: 918ms remaining: 1.54s
56: learn: 2751.4282615 test: 2762.0717186 best: 2762.0717186 (56) total: 934ms remaining: 1.52s
57: learn: 2731.7104472 test: 2742.1826450 best: 2742.1826450 (57) total: 950ms remaining: 1.51s
58: learn: 2711.8129020 test: 2721.7450743 best: 2721.7450743 (58) total: 965ms remaining: 1.49s
59: learn: 2692.8276263 test: 2702.2178506 best: 2702.2178506 (59) total: 981ms remaining: 1.47s
60: learn: 2674.2908486 test: 2683.1293619 best: 2683.1293619 (60) total: 996ms remaining: 1.45s
61: learn: 2657.3339415 test: 2665.9161250 best: 2665.9161250 (61) total: 1.02s remaining: 1.44s
62: learn: 2639.6337824 test: 2647.8105123 best: 2647.8105123 (62) total: 1.03s remaining: 1.42s
63: learn: 2624.1273547 test: 2632.0608631 best: 2632.0608631 (63) total: 1.05s remaining: 1.41s
64: learn: 2608.7951943 test: 2616.1480349 best: 2616.1480349 (64) total: 1.06s remaining: 1.39s
65: learn: 2594.3698991 test: 2601.3002269 best: 2601.3002269 (65) total: 1.08s remaining: 1.37s
66: learn: 2579.5937092 test: 2586.1045647 best: 2586.1045647 (66) total: 1.09s remaining: 1.35s
67: learn: 2565.9114045 test: 2572.0100452 best: 2572.0100452 (67) total: 1.11s remaining: 1.33s
68: learn: 2552.9631051 test: 2558.9482617 best: 2558.9482617 (68) total: 1.13s remaining: 1.32s
69: learn: 2538.5929723 test: 2543.9858850 best: 2543.9858850 (69) total: 1.14s remaining: 1.3s
70: learn: 2525.9742446 test: 2530.8853132 best: 2530.8853132 (70) total: 1.16s remaining: 1.28s
71: learn: 2513.6404566 test: 2518.1589543 best: 2518.1589543 (71) total: 1.17s remaining: 1.27s
72: learn: 2501.9664506 test: 2506.2559393 best: 2506.2559393 (72) total: 1.19s remaining: 1.25s
73: learn: 2489.7820444 test: 2493.7079504 best: 2493.7079504 (73) total: 1.2s remaining: 1.23s
74: learn: 2478.3013161 test: 2481.6790992 best: 2481.6790992 (74) total: 1.22s remaining: 1.22s
75: learn: 2467.6277766 test: 2470.6768072 best: 2470.6768072 (75) total: 1.24s remaining: 1.21s
76: learn: 2457.4968647 test: 2460.3247993 best: 2460.3247993 (76) total: 1.25s remaining: 1.19s
77: learn: 2447.6262220 test: 2450.0713037 best: 2450.0713037 (77) total: 1.27s remaining: 1.17s
78: learn: 2437.9303337 test: 2440.2123996 best: 2440.2123996 (78) total: 1.28s remaining: 1.16s
79: learn: 2427.6020421 test: 2429.5205245 best: 2429.5205245 (79) total: 1.3s remaining: 1.14s
80: learn: 2418.6269535 test: 2420.2197851 best: 2420.2197851 (80) total: 1.32s remaining: 1.12s
81: learn: 2409.2474944 test: 2410.4794844 best: 2410.4794844 (81) total: 1.33s remaining: 1.11s
82: learn: 2400.0400311 test: 2400.8708874 best: 2400.8708874 (82) total: 1.35s remaining: 1.09s
83: learn: 2391.6530213 test: 2392.3009263 best: 2392.3009263 (83) total: 1.37s remaining: 1.07s
84: learn: 2382.9500129 test: 2383.2570761 best: 2383.2570761 (84) total: 1.38s remaining: 1.06s
85: learn: 2374.8391890 test: 2374.8615140 best: 2374.8615140 (85) total: 1.4s remaining: 1.04s
86: learn: 2367.2324936 test: 2367.0885077 best: 2367.0885077 (86) total: 1.42s remaining: 1.03s

87: learn: 2359.8306426 test: 2359.5035696 best: 2359.5035696 (87) total: 1.43s remaining: 1.01s
88: learn: 2351.5600322 test: 2350.9458301 best: 2350.9458301 (88) total: 1.45s remaining: 992ms
89: learn: 2344.6056361 test: 2343.6224882 best: 2343.6224882 (89) total: 1.46s remaining: 975ms
90: learn: 2337.8216522 test: 2336.5768686 best: 2336.5768686 (90) total: 1.48s remaining: 958ms
91: learn: 2331.0063864 test: 2329.2742011 best: 2329.2742011 (91) total: 1.49s remaining: 941ms
92: learn: 2324.8835306 test: 2322.8886330 best: 2322.8886330 (92) total: 1.51s remaining: 926ms
93: learn: 2318.5313166 test: 2316.2717864 best: 2316.2717864 (93) total: 1.53s remaining: 909ms
94: learn: 2312.6178311 test: 2310.3509869 best: 2310.3509869 (94) total: 1.54s remaining: 892ms
95: learn: 2306.8142708 test: 2304.3649677 best: 2304.3649677 (95) total: 1.56s remaining: 875ms
96: learn: 2301.1449027 test: 2298.5183803 best: 2298.5183803 (96) total: 1.57s remaining: 859ms
97: learn: 2295.6850511 test: 2292.7863732 best: 2292.7863732 (97) total: 1.59s remaining: 842ms
98: learn: 2290.6804248 test: 2287.6048710 best: 2287.6048710 (98) total: 1.6s remaining: 826ms
99: learn: 2285.5564138 test: 2282.1787172 best: 2282.1787172 (99) total: 1.62s remaining: 810ms
100: learn: 2280.4159290 test: 2276.9560041 best: 2276.9560041 (100) total: 1.64s remaining: 794ms
101: learn: 2275.2634638 test: 2271.5884496 best: 2271.5884496 (101) total: 1.65s remaining: 777ms
102: learn: 2270.4319780 test: 2266.4773932 best: 2266.4773932 (102) total: 1.66s remaining: 760ms
103: learn: 2265.4244722 test: 2261.3761350 best: 2261.3761350 (103) total: 1.68s remaining: 743ms
104: learn: 2261.1702739 test: 2256.8026134 best: 2256.8026134 (104) total: 1.69s remaining: 726ms
105: learn: 2256.8798579 test: 2252.5360565 best: 2252.5360565 (105) total: 1.71s remaining: 710ms
106: learn: 2252.5264207 test: 2247.8971356 best: 2247.8971356 (106) total: 1.73s remaining: 693ms
107: learn: 2247.2981008 test: 2242.6155291 best: 2242.6155291 (107) total: 1.74s remaining: 677ms
108: learn: 2242.8500505 test: 2237.9010055 best: 2237.9010055 (108) total: 1.75s remaining: 660ms
109: learn: 2238.8287322 test: 2233.9814116 best: 2233.9814116 (109) total: 1.77s remaining: 643ms
110: learn: 2234.3256902 test: 2229.4461524 best: 2229.4461524 (110) total: 1.78s remaining: 627ms
111: learn: 2230.0449052 test: 2225.1109337 best: 2225.1109337 (111) total: 1.8s remaining: 610ms
112: learn: 2225.2931173 test: 2220.1309886 best: 2220.1309886 (112) total: 1.82s remaining: 595ms
113: learn: 2221.5598105 test: 2216.3105658 best: 2216.3105658 (113) total: 1.83s remaining: 578ms
114: learn: 2218.0763218 test: 2212.8609906 best: 2212.8609906 (114) total: 1.84s remaining: 562ms
115: learn: 2214.0152982 test: 2208.7443004 best: 2208.7443004 (115) total: 1.86s remaining: 545ms
116: learn: 2210.0942443 test: 2204.7118030 best: 2204.7118030 (116) total: 1.88s remaining: 529ms
117: learn: 2205.8562334 test: 2200.1024481 best: 2200.1024481 (117) total: 1.89s remaining: 513ms
118: learn: 2202.4921605 test: 2196.6105029 best: 2196.6105029 (118) total: 1.91s remaining: 497ms
119: learn: 2199.2929318 test: 2193.2215152 best: 2193.2215152 (119) total: 1.92s remaining: 481ms
120: learn: 2195.5349641 test: 2189.4434452 best: 2189.4434452 (120) total: 1.94s remaining: 464ms
121: learn: 2192.3071799 test: 2186.2125388 best: 2186.2125388 (121) total: 1.95s remaining: 448ms
122: learn: 2188.8855803 test: 2182.5711943 best: 2182.5711943 (122) total: 1.97s remaining: 432ms
123: learn: 2185.8508980 test: 2179.4956234 best: 2179.4956234 (123) total: 1.98s remaining: 416ms
124: learn: 2182.4096232 test: 2175.6808211 best: 2175.6808211 (124) total: 2s remaining: 399ms
125: learn: 2179.0825073 test: 2172.0182716 best: 2172.0182716 (125) total: 2.01s remaining: 384ms
126: learn: 2176.3591349 test: 2169.1881713 best: 2169.1881713 (126) total: 2.03s remaining: 367ms
127: learn: 2172.8778441 test: 2165.6098774 best: 2165.6098774 (127) total: 2.04s remaining: 351ms

128: learn: 2170.1155523 test: 2162.6842429 best: 2162.6842429 (128) total: 2.06s remaining: 335ms
129: learn: 2166.6402344 test: 2159.0331297 best: 2159.0331297 (129) total: 2.07s remaining: 319ms
130: learn: 2163.5789470 test: 2156.0254476 best: 2156.0254476 (130) total: 2.09s remaining: 303ms
131: learn: 2159.7719290 test: 2152.2661745 best: 2152.2661745 (131) total: 2.11s remaining: 288ms
132: learn: 2156.8124683 test: 2148.9549410 best: 2148.9549410 (132) total: 2.12s remaining: 272ms
133: learn: 2154.2408168 test: 2146.4334352 best: 2146.4334352 (133) total: 2.14s remaining: 256ms
134: learn: 2151.1396597 test: 2143.3155616 best: 2143.3155616 (134) total: 2.15s remaining: 240ms
135: learn: 2148.3188329 test: 2140.3680650 best: 2140.3680650 (135) total: 2.17s remaining: 223ms
136: learn: 2145.4340770 test: 2137.3218140 best: 2137.3218140 (136) total: 2.18s remaining: 207ms
137: learn: 2143.2032572 test: 2135.1543676 best: 2135.1543676 (137) total: 2.2s remaining: 191ms
138: learn: 2140.8227317 test: 2132.7433720 best: 2132.7433720 (138) total: 2.21s remaining: 175ms
139: learn: 2138.2398225 test: 2130.2772943 best: 2130.2772943 (139) total: 2.23s remaining: 159ms
140: learn: 2135.7972105 test: 2127.7410099 best: 2127.7410099 (140) total: 2.25s remaining: 143ms
141: learn: 2133.3073349 test: 2125.1901431 best: 2125.1901431 (141) total: 2.26s remaining: 127ms
142: learn: 2130.7912854 test: 2122.6229377 best: 2122.6229377 (142) total: 2.27s remaining: 111ms
143: learn: 2128.0214769 test: 2119.7180536 best: 2119.7180536 (143) total: 2.29s remaining: 95.4ms
144: learn: 2125.7154180 test: 2117.3404377 best: 2117.3404377 (144) total: 2.31s remaining: 79.7ms
145: learn: 2123.2828214 test: 2114.9049025 best: 2114.9049025 (145) total: 2.33s remaining: 63.8ms
146: learn: 2121.1602377 test: 2112.9027671 best: 2112.9027671 (146) total: 2.35s remaining: 47.9ms
147: learn: 2119.0619307 test: 2110.8842817 best: 2110.8842817 (147) total: 2.37s remaining: 32ms
148: learn: 2116.4563445 test: 2108.2571859 best: 2108.2571859 (148) total: 2.38s remaining: 16ms
149: learn: 2113.5310025 test: 2105.2398514 best: 2105.2398514 (149) total: 2.4s remaining: 0us

bestTest = 2105.239851

bestIteration = 149

32: loss: 2105.2398514 best: 1894.2522294 (27) total: 1m 5s remaining: 2m 4s
0: learn: 6410.7002914 test: 6438.8099240 best: 6438.8099240 (0) total: 17.4ms remaining: 2.59s
1: learn: 5902.7952903 test: 5929.5795235 best: 5929.5795235 (1) total: 34.2ms remaining: 2.53s
2: learn: 5454.8146524 test: 5481.8310286 best: 5481.8310286 (2) total: 50.9ms remaining: 2.49s
3: learn: 5062.6442382 test: 5090.1662277 best: 5090.1662277 (3) total: 67.1ms remaining: 2.45s
4: learn: 4707.5209539 test: 4734.4839889 best: 4734.4839889 (4) total: 83.1ms remaining: 2.41s
5: learn: 4396.1901620 test: 4423.1035336 best: 4423.1035336 (5) total: 104ms remaining: 2.49s
6: learn: 4126.1012641 test: 4152.1290640 best: 4152.1290640 (6) total: 120ms remaining: 2.45s
7: learn: 3885.0263934 test: 3910.0401688 best: 3910.0401688 (7) total: 135ms remaining: 2.4s
8: learn: 3673.2312320 test: 3696.3789374 best: 3696.3789374 (8) total: 151ms remaining: 2.37s
9: learn: 3488.7229255 test: 3510.4703354 best: 3510.4703354 (9) total: 167ms remaining: 2.34s
10: learn: 3330.1552594 test: 3350.9725460 best: 3350.9725460 (10) total: 185ms remaining: 2.34s
11: learn: 3189.2592366 test: 3209.0145868 best: 3209.0145868 (11) total: 203ms remaining: 2.33s
12: learn: 3072.4336896 test: 3090.3537804 best: 3090.3537804 (12) total: 220ms remaining: 2.32s
13: learn: 2961.9218783 test: 2978.2649966 best: 2978.2649966 (13) total: 236ms remaining: 2.29s
14: learn: 2871.2652104 test: 2895.9652569 best: 2895.9652569 (14) total: 253ms remaining: 2.27s

14: learn: 2871.2653104 test: 2865.9652569 best: 2865.9652569 (14) total: 253ms remaining: 2.27s
15: learn: 2792.1267768 test: 2804.4028556 best: 2804.4028556 (15) total: 270ms remaining: 2.27s
16: learn: 2723.6213679 test: 2734.9924737 best: 2734.9924737 (16) total: 291ms remaining: 2.28s
17: learn: 2663.2893574 test: 2672.6224671 best: 2672.6224671 (17) total: 307ms remaining: 2.25s
18: learn: 2609.2515472 test: 2617.9037753 best: 2617.9037753 (18) total: 323ms remaining: 2.23s
19: learn: 2562.8986852 test: 2570.7675832 best: 2570.7675832 (19) total: 339ms remaining: 2.2s
20: learn: 2516.1650643 test: 2522.4436697 best: 2522.4436697 (20) total: 353ms remaining: 2.17s
21: learn: 2476.7567057 test: 2481.6437757 best: 2481.6437757 (21) total: 368ms remaining: 2.14s
22: learn: 2440.5887650 test: 2444.4174668 best: 2444.4174668 (22) total: 382ms remaining: 2.11s
23: learn: 2407.2681286 test: 2409.7627690 best: 2409.7627690 (23) total: 399ms remaining: 2.09s
24: learn: 2378.6996139 test: 2380.1340426 best: 2380.1340426 (24) total: 413ms remaining: 2.07s
25: learn: 2354.8450164 test: 2355.0339995 best: 2355.0339995 (25) total: 428ms remaining: 2.04s
26: learn: 2330.0353599 test: 2329.6667544 best: 2329.6667544 (26) total: 444ms remaining: 2.02s
27: learn: 2309.0910012 test: 2308.5979769 best: 2308.5979769 (27) total: 460ms remaining: 2s
28: learn: 2290.0826322 test: 2289.2714252 best: 2289.2714252 (28) total: 475ms remaining: 1.98s
29: learn: 2271.4259131 test: 2269.4598699 best: 2269.4598699 (29) total: 495ms remaining: 1.98s
30: learn: 2255.3850230 test: 2252.7678494 best: 2252.7678494 (30) total: 511ms remaining: 1.96s
31: learn: 2241.5113533 test: 2238.3908987 best: 2238.3908987 (31) total: 526ms remaining: 1.94s
32: learn: 2226.5085142 test: 2222.9887692 best: 2222.9887692 (32) total: 541ms remaining: 1.92s
33: learn: 2213.2580396 test: 2208.9328457 best: 2208.9328457 (33) total: 556ms remaining: 1.9s
34: learn: 2200.2336010 test: 2194.6687100 best: 2194.6687100 (34) total: 572ms remaining: 1.88s
35: learn: 2188.3193050 test: 2182.5677304 best: 2182.5677304 (35) total: 590ms remaining: 1.87s
36: learn: 2177.6710916 test: 2171.9547858 best: 2171.9547858 (36) total: 605ms remaining: 1.85s
37: learn: 2167.7939929 test: 2162.0573947 best: 2162.0573947 (37) total: 622ms remaining: 1.83s
38: learn: 2158.5079355 test: 2152.4209399 best: 2152.4209399 (38) total: 637ms remaining: 1.81s
39: learn: 2151.2025819 test: 2145.1151674 best: 2145.1151674 (39) total: 651ms remaining: 1.79s
40: learn: 2141.7877353 test: 2134.6132348 best: 2134.6132348 (40) total: 666ms remaining: 1.77s
41: learn: 2133.2465280 test: 2126.0103867 best: 2126.0103867 (41) total: 684ms remaining: 1.76s
42: learn: 2124.1686133 test: 2116.9180295 best: 2116.9180295 (42) total: 700ms remaining: 1.74s
43: learn: 2116.3794342 test: 2109.1798264 best: 2109.1798264 (43) total: 715ms remaining: 1.72s
44: learn: 2108.2574211 test: 2101.1254463 best: 2101.1254463 (44) total: 731ms remaining: 1.71s
45: learn: 2102.3894445 test: 2095.4539095 best: 2095.4539095 (45) total: 748ms remaining: 1.69s
46: learn: 2094.6828893 test: 2087.8591150 best: 2087.8591150 (46) total: 769ms remaining: 1.68s
47: learn: 2089.2821348 test: 2081.9196873 best: 2081.9196873 (47) total: 786ms remaining: 1.67s
48: learn: 2081.7459438 test: 2074.4776311 best: 2074.4776311 (48) total: 806ms remaining: 1.66s
49: learn: 2076.3875031 test: 2068.8735284 best: 2068.8735284 (49) total: 822ms remaining: 1.64s
50: learn: 2069.4031950 test: 2061.5172554 best: 2061.5172554 (50) total: 841ms remaining: 1.63s
51: learn: 2062.7816129 test: 2054.7362645 best: 2054.7362645 (51) total: 861ms remaining: 1.62s
52: learn: 2054.1031344 test: 2045.5190623 best: 2045.5190623 (52) total: 877ms remaining: 1.6s
53: learn: 2048.9030141 test: 2040.5944708 best: 2040.5944708 (53) total: 894ms remaining: 1.59s
54: learn: 2044.0609076 test: 2036.0412415 best: 2036.0412415 (54) total: 911ms remaining: 1.57s
55: learn: 2037.4816010 test: 2029.1681893 best: 2029.1681893 (55) total: 927ms remaining: 1.55s

56: learn: 2032.2811750 test: 2023.5086048 best: 2023.5086048 (56) total: 942ms remaining: 1.54s
57: learn: 2028.4585084 test: 2020.0215866 best: 2020.0215866 (57) total: 957ms remaining: 1.52s
58: learn: 2024.8146404 test: 2016.4521961 best: 2016.4521961 (58) total: 972ms remaining: 1.5s
59: learn: 2019.8511997 test: 2011.5840403 best: 2011.5840403 (59) total: 989ms remaining: 1.48s
60: learn: 2014.4676840 test: 2005.8798946 best: 2005.8798946 (60) total: 1s remaining: 1.47s
61: learn: 2010.6874366 test: 2002.4346584 best: 2002.4346584 (61) total: 1.02s remaining: 1.45s
62: learn: 2005.8819874 test: 1997.5465520 best: 1997.5465520 (62) total: 1.03s remaining: 1.43s
63: learn: 2002.5590069 test: 1994.8848663 best: 1994.8848663 (63) total: 1.05s remaining: 1.41s
64: learn: 1999.4950993 test: 1992.2223820 best: 1992.2223820 (64) total: 1.06s remaining: 1.39s
65: learn: 1994.3996430 test: 1986.7259786 best: 1986.7259786 (65) total: 1.08s remaining: 1.38s
66: learn: 1991.1889753 test: 1983.1083790 best: 1983.1083790 (66) total: 1.1s remaining: 1.36s
67: learn: 1986.8023696 test: 1978.6007775 best: 1978.6007775 (67) total: 1.12s remaining: 1.35s
68: learn: 1983.9885036 test: 1975.4805343 best: 1975.4805343 (68) total: 1.13s remaining: 1.33s
69: learn: 1979.1476171 test: 1970.5674138 best: 1970.5674138 (69) total: 1.15s remaining: 1.31s
70: learn: 1973.6512922 test: 1964.8033511 best: 1964.8033511 (70) total: 1.16s remaining: 1.29s
71: learn: 1970.8820424 test: 1962.2333392 best: 1962.2333392 (71) total: 1.18s remaining: 1.27s
72: learn: 1966.7086585 test: 1957.9244306 best: 1957.9244306 (72) total: 1.19s remaining: 1.26s
73: learn: 1963.1599975 test: 1954.3523901 best: 1954.3523901 (73) total: 1.21s remaining: 1.24s
74: learn: 1960.1243233 test: 1951.5519682 best: 1951.5519682 (74) total: 1.22s remaining: 1.22s
75: learn: 1958.0319500 test: 1949.7045781 best: 1949.7045781 (75) total: 1.23s remaining: 1.2s
76: learn: 1954.7886351 test: 1946.4886108 best: 1946.4886108 (76) total: 1.25s remaining: 1.18s
77: learn: 1952.0552123 test: 1943.7103636 best: 1943.7103636 (77) total: 1.26s remaining: 1.17s
78: learn: 1948.3391229 test: 1939.8499610 best: 1939.8499610 (78) total: 1.28s remaining: 1.15s
79: learn: 1946.2319663 test: 1938.1553295 best: 1938.1553295 (79) total: 1.3s remaining: 1.14s
80: learn: 1944.2819299 test: 1936.0837543 best: 1936.0837543 (80) total: 1.31s remaining: 1.12s
81: learn: 1941.9680549 test: 1933.5515960 best: 1933.5515960 (81) total: 1.33s remaining: 1.1s
82: learn: 1939.5839199 test: 1930.9820747 best: 1930.9820747 (82) total: 1.34s remaining: 1.08s
83: learn: 1936.9068045 test: 1928.2464838 best: 1928.2464838 (83) total: 1.35s remaining: 1.06s
84: learn: 1934.6292543 test: 1926.2745429 best: 1926.2745429 (84) total: 1.37s remaining: 1.05s
85: learn: 1932.1641286 test: 1923.6099249 best: 1923.6099249 (85) total: 1.39s remaining: 1.03s
86: learn: 1928.1421188 test: 1919.3993512 best: 1919.3993512 (86) total: 1.4s remaining: 1.01s
87: learn: 1925.7292611 test: 1917.0513186 best: 1917.0513186 (87) total: 1.42s remaining: 999ms
88: learn: 1924.1082059 test: 1915.6541641 best: 1915.6541641 (88) total: 1.43s remaining: 981ms
89: learn: 1922.3784553 test: 1913.6804252 best: 1913.6804252 (89) total: 1.45s remaining: 964ms
90: learn: 1920.7706058 test: 1912.3482739 best: 1912.3482739 (90) total: 1.46s remaining: 947ms
91: learn: 1918.5125711 test: 1910.1031496 best: 1910.1031496 (91) total: 1.48s remaining: 931ms
92: learn: 1917.1150579 test: 1909.0183040 best: 1909.0183040 (92) total: 1.49s remaining: 914ms
93: learn: 1914.7031922 test: 1906.4898349 best: 1906.4898349 (93) total: 1.51s remaining: 897ms
94: learn: 1913.1635999 test: 1905.0006115 best: 1905.0006115 (94) total: 1.52s remaining: 880ms
95: learn: 1911.6224308 test: 1903.2817215 best: 1903.2817215 (95) total: 1.53s remaining: 863ms
96: learn: 1909.9132171 test: 1901.8139776 best: 1901.8139776 (96) total: 1.55s remaining: 846ms

97: learn: 1907.9989040 test: 1899.8789298 best: 1899.8789298 (97) total: 1.56s remaining: 830ms
98: learn: 1906.7421744 test: 1898.8498261 best: 1898.8498261 (98) total: 1.58s remaining: 815ms
99: learn: 1903.8925026 test: 1895.7663824 best: 1895.7663824 (99) total: 1.6s remaining: 799ms
100: learn: 1902.0048777 test: 1893.9204862 best: 1893.9204862 (100) total: 1.61s remaining: 782ms
101: learn: 1900.5290806 test: 1892.4258041 best: 1892.4258041 (101) total: 1.63s remaining: 765ms
102: learn: 1898.7361675 test: 1890.4568733 best: 1890.4568733 (102) total: 1.64s remaining: 748ms
103: learn: 1896.5578037 test: 1888.3709657 best: 1888.3709657 (103) total: 1.65s remaining: 732ms
104: learn: 1895.2061930 test: 1887.0641665 best: 1887.0641665 (104) total: 1.67s remaining: 716ms
105: learn: 1892.4530400 test: 1884.1556569 best: 1884.1556569 (105) total: 1.69s remaining: 701ms
106: learn: 1890.4665985 test: 1882.3167671 best: 1882.3167671 (106) total: 1.7s remaining: 685ms
107: learn: 1887.6032124 test: 1879.7196200 best: 1879.7196200 (107) total: 1.72s remaining: 669ms
108: learn: 1886.5602402 test: 1878.9438855 best: 1878.9438855 (108) total: 1.73s remaining: 652ms
109: learn: 1884.8507112 test: 1877.1712875 best: 1877.1712875 (109) total: 1.75s remaining: 636ms
110: learn: 1883.4305083 test: 1875.9264924 best: 1875.9264924 (110) total: 1.76s remaining: 619ms
111: learn: 1882.3680798 test: 1875.0180485 best: 1875.0180485 (111) total: 1.78s remaining: 604ms
112: learn: 1881.3302615 test: 1874.0473262 best: 1874.0473262 (112) total: 1.79s remaining: 588ms
113: learn: 1878.9451996 test: 1872.4172853 best: 1872.4172853 (113) total: 1.81s remaining: 572ms
114: learn: 1877.6314857 test: 1871.2359732 best: 1871.2359732 (114) total: 1.83s remaining: 556ms
115: learn: 1875.4794425 test: 1868.9290673 best: 1868.9290673 (115) total: 1.84s remaining: 540ms
116: learn: 1873.3862753 test: 1866.6726474 best: 1866.6726474 (116) total: 1.86s remaining: 524ms
117: learn: 1872.1763955 test: 1865.6775898 best: 1865.6775898 (117) total: 1.87s remaining: 508ms
118: learn: 1871.2497985 test: 1864.8636144 best: 1864.8636144 (118) total: 1.89s remaining: 492ms
119: learn: 1869.8760431 test: 1863.5314494 best: 1863.5314494 (119) total: 1.9s remaining: 476ms
120: learn: 1868.0918638 test: 1862.2599660 best: 1862.2599660 (120) total: 1.92s remaining: 460ms
121: learn: 1865.4235502 test: 1859.7326595 best: 1859.7326595 (121) total: 1.93s remaining: 444ms
122: learn: 1864.5383599 test: 1859.0494255 best: 1859.0494255 (122) total: 1.95s remaining: 429ms
123: learn: 1863.6143713 test: 1857.9497294 best: 1857.9497294 (123) total: 1.98s remaining: 415ms
124: learn: 1862.6009642 test: 1856.9633551 best: 1856.9633551 (124) total: 2s remaining: 399ms
125: learn: 1860.9576997 test: 1855.2822081 best: 1855.2822081 (125) total: 2.01s remaining: 384ms
126: learn: 1860.1248720 test: 1854.3963945 best: 1854.3963945 (126) total: 2.03s remaining: 368ms
127: learn: 1858.5221551 test: 1852.8277106 best: 1852.8277106 (127) total: 2.05s remaining: 352ms
128: learn: 1857.0514225 test: 1851.4693671 best: 1851.4693671 (128) total: 2.06s remaining: 336ms
129: learn: 1855.6717158 test: 1849.8674309 best: 1849.8674309 (129) total: 2.08s remaining: 320ms
130: learn: 1853.8143104 test: 1848.0492395 best: 1848.0492395 (130) total: 2.1s remaining: 304ms
131: learn: 1853.0529188 test: 1847.5194334 best: 1847.5194334 (131) total: 2.11s remaining: 288ms
132: learn: 1851.4141104 test: 1845.7395645 best: 1845.7395645 (132) total: 2.13s remaining: 272ms
133: learn: 1850.4276745 test: 1845.0246781 best: 1845.0246781 (133) total: 2.15s remaining: 256ms
134: learn: 1849.5069591 test: 1844.0730316 best: 1844.0730316 (134) total: 2.16s remaining: 240ms
135: learn: 1848.2253190 test: 1842.8667386 best: 1842.8667386 (135) total: 2.18s remaining: 224ms
136: learn: 1847.2903117 test: 1842.1852440 best: 1842.1852440 (136) total: 2.19s remaining: 208ms
137: learn: 1846.0051185 test: 1840.9321810 best: 1840.9321810 (137) total: 2.21s remaining: 192ms

138: learn: 1844.8705224 test: 1839.9844149 best: 1839.9844149 (138) total: 2.22s remaining: 176ms
139: learn: 1843.0894483 test: 1838.7293448 best: 1838.7293448 (139) total: 2.24s remaining: 160ms
140: learn: 1841.7801074 test: 1837.3926721 best: 1837.3926721 (140) total: 2.25s remaining: 144ms
141: learn: 1840.4641713 test: 1836.1022647 best: 1836.1022647 (141) total: 2.27s remaining: 128ms
142: learn: 1839.3812775 test: 1835.0871026 best: 1835.0871026 (142) total: 2.29s remaining: 112ms
143: learn: 1838.6248625 test: 1834.4865754 best: 1834.4865754 (143) total: 2.3s remaining: 95.9ms
144: learn: 1837.7212414 test: 1833.4798967 best: 1833.4798967 (144) total: 2.32s remaining: 79.9ms
145: learn: 1836.8208760 test: 1832.7812620 best: 1832.7812620 (145) total: 2.33s remaining: 63.9ms
146: learn: 1835.7646943 test: 1831.5908377 best: 1831.5908377 (146) total: 2.35s remaining: 47.9ms
147: learn: 1834.0492909 test: 1829.8730829 best: 1829.8730829 (147) total: 2.37s remaining: 32ms
148: learn: 1833.0295133 test: 1828.9535981 best: 1828.9535981 (148) total: 2.38s remaining: 16ms
149: learn: 1832.0231273 test: 1827.9322239 best: 1827.9322239 (149) total: 2.4s remaining: 0us

bestTest = 1827.932224

bestIteration = 149

33: loss: 1827.9322239 best: 1827.9322239 (33) total: 1m 7s remaining: 2m 3s
0: learn: 6809.5487122 test: 6837.6525129 best: 6837.6525129 (0) total: 17.2ms remaining: 2.56s
1: learn: 6643.1263824 test: 6670.8775106 best: 6670.8775106 (1) total: 33.1ms remaining: 2.45s
2: learn: 6482.7733570 test: 6510.6592765 best: 6510.6592765 (2) total: 49.8ms remaining: 2.44s
3: learn: 6329.3269464 test: 6357.5631080 best: 6357.5631080 (3) total: 67.4ms remaining: 2.46s
4: learn: 6179.8335771 test: 6208.2706003 best: 6208.2706003 (4) total: 83.1ms remaining: 2.41s
5: learn: 6033.8020905 test: 6062.2899288 best: 6062.2899288 (5) total: 98.7ms remaining: 2.37s
6: learn: 5893.8962953 test: 5922.4791307 best: 5922.4791307 (6) total: 115ms remaining: 2.35s
7: learn: 5758.5099192 test: 5786.8307217 best: 5786.8307217 (7) total: 131ms remaining: 2.33s
8: learn: 5626.8991198 test: 5655.0056568 best: 5655.0056568 (8) total: 147ms remaining: 2.3s
9: learn: 5501.5156545 test: 5529.6338088 best: 5529.6338088 (9) total: 166ms remaining: 2.33s
10: learn: 5380.1000367 test: 5408.1943600 best: 5408.1943600 (10) total: 182ms remaining: 2.3s
11: learn: 5262.5675785 test: 5290.6936105 best: 5290.6936105 (11) total: 199ms remaining: 2.29s
12: learn: 5149.0843144 test: 5177.1011724 best: 5177.1011724 (12) total: 214ms remaining: 2.26s
13: learn: 5039.7750369 test: 5067.7149466 best: 5067.7149466 (13) total: 230ms remaining: 2.23s
14: learn: 4934.3204361 test: 4962.2024629 best: 4962.2024629 (14) total: 245ms remaining: 2.21s
15: learn: 4832.8705275 test: 4860.4059869 best: 4860.4059869 (15) total: 267ms remaining: 2.24s
16: learn: 4734.2802482 test: 4761.5367757 best: 4761.5367757 (16) total: 290ms remaining: 2.27s
17: learn: 4639.8718592 test: 4666.7285192 best: 4666.7285192 (17) total: 312ms remaining: 2.29s
18: learn: 4549.8096286 test: 4576.3630969 best: 4576.3630969 (18) total: 333ms remaining: 2.3s
19: learn: 4462.1148870 test: 4488.5231741 best: 4488.5231741 (19) total: 358ms remaining: 2.32s
20: learn: 4376.7401790 test: 4402.7764247 best: 4402.7764247 (20) total: 377ms remaining: 2.31s
21: learn: 4294.8321763 test: 4320.5161533 best: 4320.5161533 (21) total: 397ms remaining: 2.31s
22: learn: 4214.4658821 test: 4240.2061615 best: 4240.2061615 (22) total: 418ms remaining: 2.31s
23: learn: 4137.6491933 test: 4163.3495017 best: 4163.3495017 (23) total: 438ms remaining: 2.3s
24: learn: 4064.8077725 test: 4090.0988718 best: 4090.0988718 (24) total: 458ms remaining: 2.29s

24: learn: 4034.8077123 test: 4030.8088718 best: 4030.8088718 (24) total: 456ms remaining: 2.29s
25: learn: 3993.5437030 test: 4018.2947166 best: 4018.2947166 (25) total: 477ms remaining: 2.27s
26: learn: 3924.3274919 test: 3948.9539808 best: 3948.9539808 (26) total: 493ms remaining: 2.24s
27: learn: 3860.7898222 test: 3884.9645674 best: 3884.9645674 (27) total: 509ms remaining: 2.22s
28: learn: 3797.4474907 test: 3821.1752846 best: 3821.1752846 (28) total: 524ms remaining: 2.19s
29: learn: 3736.6319359 test: 3759.8106580 best: 3759.8106580 (29) total: 541ms remaining: 2.16s
30: learn: 3677.8497278 test: 3700.8277038 best: 3700.8277038 (30) total: 561ms remaining: 2.15s
31: learn: 3620.7234958 test: 3643.2317181 best: 3643.2317181 (31) total: 578ms remaining: 2.13s
32: learn: 3567.7186845 test: 3589.9363496 best: 3589.9363496 (32) total: 595ms remaining: 2.11s
33: learn: 3515.7099945 test: 3537.4476566 best: 3537.4476566 (33) total: 611ms remaining: 2.08s
34: learn: 3465.6515420 test: 3486.5489143 best: 3486.5489143 (34) total: 627ms remaining: 2.06s
35: learn: 3417.6189996 test: 3438.1526676 best: 3438.1526676 (35) total: 644ms remaining: 2.04s
36: learn: 3371.0095290 test: 3391.0420481 best: 3391.0420481 (36) total: 661ms remaining: 2.02s
37: learn: 3327.6208557 test: 3347.3649104 best: 3347.3649104 (37) total: 677ms remaining: 1.99s
38: learn: 3283.5121411 test: 3302.6168866 best: 3302.6168866 (38) total: 693ms remaining: 1.97s
39: learn: 3242.6278522 test: 3260.9559213 best: 3260.9559213 (39) total: 708ms remaining: 1.95s
40: learn: 3203.6978041 test: 3221.7671273 best: 3221.7671273 (40) total: 723ms remaining: 1.92s
41: learn: 3165.0417926 test: 3182.5502337 best: 3182.5502337 (41) total: 738ms remaining: 1.9s
42: learn: 3130.2260211 test: 3147.2963016 best: 3147.2963016 (42) total: 758ms remaining: 1.89s
43: learn: 3095.8755116 test: 3112.3599231 best: 3112.3599231 (43) total: 774ms remaining: 1.86s
44: learn: 3062.6943162 test: 3078.6166028 best: 3078.6166028 (44) total: 791ms remaining: 1.84s
45: learn: 3030.4624623 test: 3045.8077192 best: 3045.8077192 (45) total: 806ms remaining: 1.82s
46: learn: 3000.3241726 test: 3015.3608177 best: 3015.3608177 (46) total: 822ms remaining: 1.8s
47: learn: 2970.4345963 test: 2985.0987449 best: 2985.0987449 (47) total: 838ms remaining: 1.78s
48: learn: 2942.1240162 test: 2956.4352961 best: 2956.4352961 (48) total: 854ms remaining: 1.76s
49: learn: 2914.6616830 test: 2928.8221615 best: 2928.8221615 (49) total: 870ms remaining: 1.74s
50: learn: 2889.1349466 test: 2903.0354803 best: 2903.0354803 (50) total: 885ms remaining: 1.72s
51: learn: 2863.2484481 test: 2876.4792886 best: 2876.4792886 (51) total: 901ms remaining: 1.7s
52: learn: 2838.7108918 test: 2851.3852001 best: 2851.3852001 (52) total: 916ms remaining: 1.68s
53: learn: 2816.1884464 test: 2828.5979088 best: 2828.5979088 (53) total: 931ms remaining: 1.65s
54: learn: 2793.6994563 test: 2805.6030392 best: 2805.6030392 (54) total: 949ms remaining: 1.64s
55: learn: 2772.3731162 test: 2783.5407201 best: 2783.5407201 (55) total: 965ms remaining: 1.62s
56: learn: 2751.5061800 test: 2762.1496646 best: 2762.1496646 (56) total: 980ms remaining: 1.6s
57: learn: 2731.7900006 test: 2742.2618436 best: 2742.2618436 (57) total: 996ms remaining: 1.58s
58: learn: 2711.8913322 test: 2721.8232382 best: 2721.8232382 (58) total: 1.01s remaining: 1.56s
59: learn: 2692.9057967 test: 2702.2961497 best: 2702.2961497 (59) total: 1.03s remaining: 1.54s
60: learn: 2674.3678837 test: 2683.2064967 best: 2683.2064967 (60) total: 1.05s remaining: 1.53s
61: learn: 2657.4133365 test: 2665.9943225 best: 2665.9943225 (61) total: 1.06s remaining: 1.51s
62: learn: 2639.7142024 test: 2647.8881768 best: 2647.8881768 (62) total: 1.08s remaining: 1.49s
63: learn: 2624.2077665 test: 2632.1383075 best: 2632.1383075 (63) total: 1.09s remaining: 1.47s
64: learn: 2608.8747757 test: 2616.2246430 best: 2616.2246430 (64) total: 1.11s remaining: 1.45s
65: learn: 2594.4491289 test: 2601.3764580 best: 2601.3764580 (65) total: 1.12s remaining: 1.43s

66: learn: 2579.6722955 test: 2586.1801518 best: 2586.1801518 (66) total: 1.14s remaining: 1.41s
67: learn: 2565.9902816 test: 2572.0860584 best: 2572.0860584 (67) total: 1.16s remaining: 1.39s
68: learn: 2553.0437089 test: 2559.0260908 best: 2559.0260908 (68) total: 1.17s remaining: 1.38s
69: learn: 2538.6730235 test: 2544.0630418 best: 2544.0630418 (69) total: 1.19s remaining: 1.36s
70: learn: 2526.0553964 test: 2530.9635147 best: 2530.9635147 (70) total: 1.2s remaining: 1.34s
71: learn: 2513.7209558 test: 2518.2365118 best: 2518.2365118 (71) total: 1.22s remaining: 1.32s
72: learn: 2502.0476746 test: 2506.3341642 best: 2506.3341642 (72) total: 1.23s remaining: 1.3s
73: learn: 2489.8642939 test: 2493.7853925 best: 2493.7853925 (73) total: 1.25s remaining: 1.28s
74: learn: 2478.3826648 test: 2481.7556460 best: 2481.7556460 (74) total: 1.27s remaining: 1.27s
75: learn: 2467.7085140 test: 2470.7527147 best: 2470.7527147 (75) total: 1.28s remaining: 1.25s
76: learn: 2457.5768330 test: 2460.3998684 best: 2460.3998684 (76) total: 1.3s remaining: 1.23s
77: learn: 2447.7069300 test: 2450.1466772 best: 2450.1466772 (77) total: 1.31s remaining: 1.21s
78: learn: 2438.0104258 test: 2440.2870502 best: 2440.2870502 (78) total: 1.33s remaining: 1.19s
79: learn: 2427.6867758 test: 2429.5951062 best: 2429.5951062 (79) total: 1.34s remaining: 1.18s
80: learn: 2418.7123466 test: 2420.2943914 best: 2420.2943914 (80) total: 1.36s remaining: 1.16s
81: learn: 2409.3322691 test: 2410.5533898 best: 2410.5533898 (81) total: 1.38s remaining: 1.14s
82: learn: 2400.1242351 test: 2400.9442906 best: 2400.9442906 (82) total: 1.39s remaining: 1.12s
83: learn: 2391.7366130 test: 2392.3736220 best: 2392.3736220 (83) total: 1.41s remaining: 1.1s
84: learn: 2383.0379517 test: 2383.3296510 best: 2383.3296510 (84) total: 1.42s remaining: 1.09s
85: learn: 2374.9262030 test: 2374.9331273 best: 2374.9331273 (85) total: 1.44s remaining: 1.07s
86: learn: 2367.3193311 test: 2367.1598891 best: 2367.1598891 (86) total: 1.46s remaining: 1.05s
87: learn: 2359.9176763 test: 2359.5750897 best: 2359.5750897 (87) total: 1.47s remaining: 1.04s
88: learn: 2351.6468147 test: 2351.0170092 best: 2351.0170092 (88) total: 1.49s remaining: 1.02s
89: learn: 2344.6920060 test: 2343.6932297 best: 2343.6932297 (89) total: 1.51s remaining: 1s
90: learn: 2337.9136887 test: 2336.6485736 best: 2336.6485736 (90) total: 1.52s remaining: 987ms
91: learn: 2331.0973607 test: 2329.3447141 best: 2329.3447141 (91) total: 1.54s remaining: 970ms
92: learn: 2324.9742829 test: 2322.9587133 best: 2322.9587133 (92) total: 1.55s remaining: 953ms
93: learn: 2318.6214110 test: 2316.3410401 best: 2316.3410401 (93) total: 1.57s remaining: 936ms
94: learn: 2312.7088121 test: 2310.4212959 best: 2310.4212959 (94) total: 1.59s remaining: 918ms
95: learn: 2306.9046529 test: 2304.4345608 best: 2304.4345608 (95) total: 1.61s remaining: 904ms
96: learn: 2301.2353120 test: 2298.5872225 best: 2298.5872225 (96) total: 1.62s remaining: 887ms
97: learn: 2295.7754988 test: 2292.8544221 best: 2292.8544221 (97) total: 1.64s remaining: 869ms
98: learn: 2290.7707571 test: 2287.6727031 best: 2287.6727031 (98) total: 1.66s remaining: 853ms
99: learn: 2285.6498866 test: 2282.2465965 best: 2282.2465965 (99) total: 1.67s remaining: 836ms
100: learn: 2280.5092847 test: 2277.0237146 best: 2277.0237146 (100) total: 1.69s remaining: 819ms
101: learn: 2275.3607024 test: 2271.6565445 best: 2271.6565445 (101) total: 1.7s remaining: 801ms
102: learn: 2270.5341962 test: 2266.5457798 best: 2266.5457798 (102) total: 1.72s remaining: 784ms
103: learn: 2265.5270487 test: 2261.4456879 best: 2261.4456879 (103) total: 1.73s remaining: 767ms
104: learn: 2261.2732335 test: 2256.8722685 best: 2256.8722685 (104) total: 1.75s remaining: 750ms
105: learn: 2256.9835402 test: 2252.6063519 best: 2252.6063519 (105) total: 1.76s remaining: 732ms
106: learn: 2252.6298328 test: 2247.9669127 best: 2247.9669127 (106) total: 1.78s remaining: 715ms

107: learn: 2247.4030734 test: 2242.6867207 best: 2242.6867207 (107) total: 1.8s remaining: 699ms
108: learn: 2242.9554158 test: 2237.9715261 best: 2237.9715261 (108) total: 1.81s remaining: 681ms
109: learn: 2238.9342997 test: 2234.0519204 best: 2234.0519204 (109) total: 1.83s remaining: 664ms
110: learn: 2234.4312489 test: 2229.5164303 best: 2229.5164303 (110) total: 1.85s remaining: 649ms
111: learn: 2230.1495611 test: 2225.1803885 best: 2225.1803885 (111) total: 1.86s remaining: 632ms
112: learn: 2225.3984273 test: 2220.1992369 best: 2220.1992369 (112) total: 1.88s remaining: 615ms
113: learn: 2221.6668552 test: 2216.3798537 best: 2216.3798537 (113) total: 1.89s remaining: 598ms
114: learn: 2218.1831560 test: 2212.9299089 best: 2212.9299089 (114) total: 1.91s remaining: 580ms
115: learn: 2214.1228482 test: 2208.8136102 best: 2208.8136102 (115) total: 1.92s remaining: 564ms
116: learn: 2210.2018013 test: 2204.7810876 best: 2204.7810876 (116) total: 1.94s remaining: 547ms
117: learn: 2205.9649448 test: 2200.1746971 best: 2200.1746971 (117) total: 1.95s remaining: 530ms
118: learn: 2202.6010674 test: 2196.6822125 best: 2196.6822125 (118) total: 1.97s remaining: 513ms
119: learn: 2199.4015257 test: 2193.2925386 best: 2193.2925386 (119) total: 1.98s remaining: 496ms
120: learn: 2195.6431185 test: 2189.5140533 best: 2189.5140533 (120) total: 2s remaining: 479ms
121: learn: 2192.4153339 test: 2186.2830157 best: 2186.2830157 (121) total: 2.01s remaining: 462ms
122: learn: 2188.9933203 test: 2182.6410169 best: 2182.6410169 (122) total: 2.03s remaining: 446ms
123: learn: 2185.9582936 test: 2179.5650413 best: 2179.5650413 (123) total: 2.05s remaining: 430ms
124: learn: 2182.5192181 test: 2175.7575044 best: 2175.7575044 (124) total: 2.06s remaining: 413ms
125: learn: 2179.1963665 test: 2172.0991268 best: 2172.0991268 (125) total: 2.08s remaining: 396ms
126: learn: 2176.4729140 test: 2169.2681934 best: 2169.2681934 (126) total: 2.1s remaining: 380ms
127: learn: 2172.9912503 test: 2165.6895479 best: 2165.6895479 (127) total: 2.11s remaining: 363ms
128: learn: 2170.2288756 test: 2162.7636358 best: 2162.7636358 (128) total: 2.13s remaining: 346ms
129: learn: 2166.7542717 test: 2159.1131163 best: 2159.1131163 (129) total: 2.14s remaining: 330ms
130: learn: 2163.6941481 test: 2156.1065060 best: 2156.1065060 (130) total: 2.16s remaining: 313ms
131: learn: 2159.8870108 test: 2152.3470584 best: 2152.3470584 (131) total: 2.18s remaining: 297ms
132: learn: 2156.9337147 test: 2149.0463979 best: 2149.0463979 (132) total: 2.19s remaining: 280ms
133: learn: 2154.3643238 test: 2146.5255734 best: 2146.5255734 (133) total: 2.21s remaining: 264ms
134: learn: 2151.2626366 test: 2143.4072855 best: 2143.4072855 (134) total: 2.22s remaining: 247ms
135: learn: 2148.4422482 test: 2140.4602382 best: 2140.4602382 (135) total: 2.24s remaining: 231ms
136: learn: 2145.5584530 test: 2137.4133462 best: 2137.4133462 (136) total: 2.26s remaining: 214ms
137: learn: 2143.3292519 test: 2135.2477735 best: 2135.2477735 (137) total: 2.27s remaining: 197ms
138: learn: 2140.9505075 test: 2132.8371217 best: 2132.8371217 (138) total: 2.29s remaining: 181ms
139: learn: 2138.3675229 test: 2130.3708194 best: 2130.3708194 (139) total: 2.3s remaining: 164ms
140: learn: 2135.9246410 test: 2127.8341385 best: 2127.8341385 (140) total: 2.31s remaining: 148ms
141: learn: 2133.4362662 test: 2125.2845107 best: 2125.2845107 (141) total: 2.33s remaining: 131ms
142: learn: 2130.9202444 test: 2122.7171841 best: 2122.7171841 (142) total: 2.35s remaining: 115ms
143: learn: 2128.1505231 test: 2119.8123006 best: 2119.8123006 (143) total: 2.36s remaining: 98.5ms
144: learn: 2125.8452436 test: 2117.4348770 best: 2117.4348770 (144) total: 2.38s remaining: 82ms
145: learn: 2123.4120918 test: 2114.9987655 best: 2114.9987655 (145) total: 2.39s remaining: 65.6ms
146: learn: 2121.2900603 test: 2112.9969400 best: 2112.9969400 (146) total: 2.41s remaining: 49.2ms
147: learn: 2119.1920463 test: 2110.9786649 best: 2110.9786649 (147) total: 2.42s remaining: 32.8ms

148: learn: 2117.2901424 test: 2109.0392611 best: 2109.0392611 (148) total: 2.44s remaining: 16.4ms
149: learn: 2115.0430334 test: 2106.7899016 best: 2106.7899016 (149) total: 2.46s remaining: 0us

bestTest = 2106.789902
bestIteration = 149

34: loss: 2106.7899016 best: 1827.9322239 (33) total: 1m 10s remaining: 2m 2s
0: learn: 6410.7170174 test: 6438.8265902 best: 6438.8265902 (0) total: 17.9ms remaining: 2.67s
1: learn: 5902.8401110 test: 5929.6255821 best: 5929.6255821 (1) total: 35.3ms remaining: 2.61s
2: learn: 5454.8661179 test: 5481.8836832 best: 5481.8836832 (2) total: 51.9ms remaining: 2.54s
3: learn: 5062.7098707 test: 5090.2329127 best: 5090.2329127 (3) total: 69.3ms remaining: 2.53s
4: learn: 4707.5942479 test: 4734.5584446 best: 4734.5584446 (4) total: 85.7ms remaining: 2.48s
5: learn: 4396.2675061 test: 4423.1820465 best: 4423.1820465 (5) total: 101ms remaining: 2.44s
6: learn: 4126.1860964 test: 4152.2154026 best: 4152.2154026 (6) total: 118ms remaining: 2.41s
7: learn: 3885.1100505 test: 3910.1253251 best: 3910.1253251 (7) total: 138ms remaining: 2.45s
8: learn: 3673.3141554 test: 3696.4636046 best: 3696.4636046 (8) total: 162ms remaining: 2.54s
9: learn: 3488.8062780 test: 3510.5558418 best: 3510.5558418 (9) total: 178ms remaining: 2.49s
10: learn: 3330.2359180 test: 3351.0553706 best: 3351.0553706 (10) total: 194ms remaining: 2.45s
11: learn: 3189.3352467 test: 3209.0929122 best: 3209.0929122 (11) total: 209ms remaining: 2.41s
12: learn: 3072.5043541 test: 3090.4268174 best: 3090.4268174 (12) total: 225ms remaining: 2.37s
13: learn: 2961.9890109 test: 2978.3346868 best: 2978.3346868 (13) total: 241ms remaining: 2.34s
14: learn: 2871.3293175 test: 2886.0319709 best: 2886.0319709 (14) total: 257ms remaining: 2.31s
15: learn: 2792.1946720 test: 2804.4734048 best: 2804.4734048 (15) total: 275ms remaining: 2.3s
16: learn: 2723.6963780 test: 2735.0705883 best: 2735.0705883 (16) total: 290ms remaining: 2.27s
17: learn: 2663.3629715 test: 2672.6990545 best: 2672.6990545 (17) total: 306ms remaining: 2.24s
18: learn: 2609.3302550 test: 2617.9853895 best: 2617.9853895 (18) total: 322ms remaining: 2.22s
19: learn: 2562.9751918 test: 2570.8466483 best: 2570.8466483 (19) total: 337ms remaining: 2.19s
20: learn: 2516.2393049 test: 2522.5207423 best: 2522.5207423 (20) total: 353ms remaining: 2.17s
21: learn: 2476.8336895 test: 2481.7239833 best: 2481.7239833 (21) total: 372ms remaining: 2.17s
22: learn: 2440.6671371 test: 2444.4989730 best: 2444.4989730 (22) total: 388ms remaining: 2.14s
23: learn: 2407.3454311 test: 2409.8436770 best: 2409.8436770 (23) total: 403ms remaining: 2.12s
24: learn: 2378.7782414 test: 2380.2136517 best: 2380.2136517 (24) total: 418ms remaining: 2.09s
25: learn: 2354.9270365 test: 2355.1131784 best: 2355.1131784 (25) total: 433ms remaining: 2.06s
26: learn: 2330.1192840 test: 2329.7474327 best: 2329.7474327 (26) total: 448ms remaining: 2.04s
27: learn: 2309.1744167 test: 2308.6775289 best: 2308.6775289 (27) total: 466ms remaining: 2.03s
28: learn: 2290.1630873 test: 2289.3479131 best: 2289.3479131 (28) total: 481ms remaining: 2.01s
29: learn: 2271.5227367 test: 2269.5360302 best: 2269.5360302 (29) total: 496ms remaining: 1.98s
30: learn: 2255.4828191 test: 2252.8412053 best: 2252.8412053 (30) total: 511ms remaining: 1.96s
31: learn: 2241.6085671 test: 2238.4616516 best: 2238.4616516 (31) total: 526ms remaining: 1.94s
32: learn: 2226.6065518 test: 2223.0597344 best: 2223.0597344 (32) total: 542ms remaining: 1.92s
33: learn: 2213.3592404 test: 2209.0133489 best: 2209.0133489 (33) total: 562ms remaining: 1.92s
34: learn: 2200.3338250 test: 2194.7476530 best: 2194.7476530 (34) total: 577ms remaining: 1.9s

35: learn: 2188.4229637 test: 2182.6484515 best: 2182.6484515 (35) total: 592ms remaining: 1.88s
36: learn: 2177.7744924 test: 2172.0347905 best: 2172.0347905 (36) total: 608ms remaining: 1.85s
37: learn: 2167.8975663 test: 2162.1377149 best: 2162.1377149 (37) total: 623ms remaining: 1.83s
38: learn: 2158.6127302 test: 2152.5005360 best: 2152.5005360 (38) total: 637ms remaining: 1.81s
39: learn: 2151.3213603 test: 2145.2082945 best: 2145.2082945 (39) total: 653ms remaining: 1.79s
40: learn: 2141.9137708 test: 2134.7227117 best: 2134.7227117 (40) total: 669ms remaining: 1.78s
41: learn: 2133.3721954 test: 2126.1187472 best: 2126.1187472 (41) total: 684ms remaining: 1.76s
42: learn: 2124.2921787 test: 2117.0244808 best: 2117.0244808 (42) total: 699ms remaining: 1.74s
43: learn: 2116.5029313 test: 2109.2860966 best: 2109.2860966 (43) total: 715ms remaining: 1.72s
44: learn: 2108.3804419 test: 2101.2312746 best: 2101.2312746 (44) total: 730ms remaining: 1.7s
45: learn: 2102.5113692 test: 2095.5582011 best: 2095.5582011 (45) total: 746ms remaining: 1.69s
46: learn: 2094.8041317 test: 2087.9621276 best: 2087.9621276 (46) total: 765ms remaining: 1.68s
47: learn: 2089.4057093 test: 2082.0261601 best: 2082.0261601 (47) total: 779ms remaining: 1.66s
48: learn: 2081.8707894 test: 2074.5850406 best: 2074.5850406 (48) total: 795ms remaining: 1.64s
49: learn: 2076.5114306 test: 2068.9794038 best: 2068.9794038 (49) total: 809ms remaining: 1.62s
50: learn: 2069.5245398 test: 2061.6185288 best: 2061.6185288 (50) total: 824ms remaining: 1.6s
51: learn: 2062.9039713 test: 2054.8386733 best: 2054.8386733 (51) total: 839ms remaining: 1.58s
52: learn: 2054.2259235 test: 2045.6218255 best: 2045.6218255 (52) total: 855ms remaining: 1.56s
53: learn: 2049.0407286 test: 2040.7113721 best: 2040.7113721 (53) total: 869ms remaining: 1.54s
54: learn: 2044.2010935 test: 2036.1590192 best: 2036.1590192 (54) total: 884ms remaining: 1.53s
55: learn: 2037.6231376 test: 2029.2876902 best: 2029.2876902 (55) total: 901ms remaining: 1.51s
56: learn: 2033.6343183 test: 2024.8976849 best: 2024.8976849 (56) total: 916ms remaining: 1.49s
57: learn: 2028.7126168 test: 2020.2568229 best: 2020.2568229 (57) total: 931ms remaining: 1.48s
58: learn: 2023.2766103 test: 2014.2206415 best: 2014.2206415 (58) total: 950ms remaining: 1.47s
59: learn: 2018.8027722 test: 2009.6125324 best: 2009.6125324 (59) total: 970ms remaining: 1.45s
60: learn: 2013.2994473 test: 2003.8650044 best: 2003.8650044 (60) total: 987ms remaining: 1.44s
61: learn: 2009.7279266 test: 2000.6340036 best: 2000.6340036 (61) total: 1s remaining: 1.42s
62: learn: 2004.3741714 test: 1995.0744943 best: 1995.0744943 (62) total: 1.02s remaining: 1.41s
63: learn: 2000.3201818 test: 1991.2277027 best: 1991.2277027 (63) total: 1.03s remaining: 1.39s
64: learn: 1997.1713468 test: 1988.4745190 best: 1988.4745190 (64) total: 1.05s remaining: 1.38s
65: learn: 1992.8994331 test: 1984.0816447 best: 1984.0816447 (65) total: 1.07s remaining: 1.36s
66: learn: 1989.6670157 test: 1980.7205984 best: 1980.7205984 (66) total: 1.08s remaining: 1.34s
67: learn: 1986.6565390 test: 1977.8553901 best: 1977.8553901 (67) total: 1.1s remaining: 1.32s
68: learn: 1982.0178024 test: 1973.0600482 best: 1973.0600482 (68) total: 1.11s remaining: 1.31s
69: learn: 1979.5096745 test: 1970.9902811 best: 1970.9902811 (69) total: 1.13s remaining: 1.29s
70: learn: 1976.0986270 test: 1967.6240299 best: 1967.6240299 (70) total: 1.15s remaining: 1.28s
71: learn: 1971.9140000 test: 1963.2643199 best: 1963.2643199 (71) total: 1.17s remaining: 1.26s
72: learn: 1967.2511080 test: 1958.4410022 best: 1958.4410022 (72) total: 1.18s remaining: 1.25s
73: learn: 1964.2754463 test: 1955.0191563 best: 1955.0191563 (73) total: 1.2s remaining: 1.23s
74: learn: 1961.8054257 test: 1952.8460530 best: 1952.8460530 (74) total: 1.21s remaining: 1.21s
75: learn: 1959.4854931 test: 1950.7992802 best: 1950.7992802 (75) total: 1.23s remaining: 1.19s

76: learn: 1955.9936218 test: 1947.2772157 best: 1947.2772157 (76) total: 1.24s remaining: 1.18s
77: learn: 1953.7830877 test: 1944.8551197 best: 1944.8551197 (77) total: 1.26s remaining: 1.16s
78: learn: 1949.8958552 test: 1940.7626899 best: 1940.7626899 (78) total: 1.28s remaining: 1.15s
79: learn: 1946.4049359 test: 1937.1503200 best: 1937.1503200 (79) total: 1.29s remaining: 1.13s
80: learn: 1944.0974783 test: 1935.2302717 best: 1935.2302717 (80) total: 1.31s remaining: 1.11s
81: learn: 1942.2283494 test: 1933.4316054 best: 1933.4316054 (81) total: 1.32s remaining: 1.09s
82: learn: 1939.7556412 test: 1930.8297775 best: 1930.8297775 (82) total: 1.33s remaining: 1.08s
83: learn: 1936.4135048 test: 1927.4340227 best: 1927.4340227 (83) total: 1.35s remaining: 1.06s
84: learn: 1934.0414466 test: 1925.0513857 best: 1925.0513857 (84) total: 1.37s remaining: 1.05s
85: learn: 1931.7537272 test: 1922.8043924 best: 1922.8043924 (85) total: 1.39s remaining: 1.03s
86: learn: 1929.5317132 test: 1920.6023189 best: 1920.6023189 (86) total: 1.4s remaining: 1.01s
87: learn: 1926.7527181 test: 1917.8706596 best: 1917.8706596 (87) total: 1.42s remaining: 999ms
88: learn: 1925.0934010 test: 1916.4280156 best: 1916.4280156 (88) total: 1.43s remaining: 982ms
89: learn: 1923.5487013 test: 1914.5015200 best: 1914.5015200 (89) total: 1.45s remaining: 969ms
90: learn: 1921.6330858 test: 1912.5642843 best: 1912.5642843 (90) total: 1.47s remaining: 956ms
91: learn: 1919.3911783 test: 1910.3497833 best: 1910.3497833 (91) total: 1.49s remaining: 939ms
92: learn: 1917.1608804 test: 1908.0776566 best: 1908.0776566 (92) total: 1.5s remaining: 921ms
93: learn: 1914.9315115 test: 1905.9480733 best: 1905.9480733 (93) total: 1.52s remaining: 905ms
94: learn: 1912.7127521 test: 1903.6836004 best: 1903.6836004 (94) total: 1.53s remaining: 888ms
95: learn: 1910.9118230 test: 1901.7544711 best: 1901.7544711 (95) total: 1.55s remaining: 871ms
96: learn: 1909.4290973 test: 1900.4234314 best: 1900.4234314 (96) total: 1.58s remaining: 862ms
97: learn: 1908.1749921 test: 1899.5412883 best: 1899.5412883 (97) total: 1.59s remaining: 845ms
98: learn: 1906.4956274 test: 1897.9512310 best: 1897.9512310 (98) total: 1.61s remaining: 827ms
99: learn: 1902.9667215 test: 1894.2522294 best: 1894.2522294 (99) total: 1.62s remaining: 811ms
100: learn: 1900.4665013 test: 1891.5982371 best: 1891.5982371 (100) total: 1.64s remaining: 795ms
101: learn: 1899.2874046 test: 1890.4866973 best: 1890.4866973 (101) total: 1.66s remaining: 783ms
102: learn: 1897.9494928 test: 1889.0460542 best: 1889.0460542 (102) total: 1.68s remaining: 767ms
103: learn: 1895.8806953 test: 1886.9867835 best: 1886.9867835 (103) total: 1.7s remaining: 751ms
104: learn: 1894.6122134 test: 1885.6242352 best: 1885.6242352 (104) total: 1.71s remaining: 734ms
105: learn: 1892.6515181 test: 1883.6654009 best: 1883.6654009 (105) total: 1.73s remaining: 717ms
106: learn: 1889.7536558 test: 1880.6163688 best: 1880.6163688 (106) total: 1.74s remaining: 701ms
107: learn: 1888.4198676 test: 1879.4599489 best: 1879.4599489 (107) total: 1.77s remaining: 689ms
108: learn: 1887.2970826 test: 1878.5961118 best: 1878.5961118 (108) total: 1.78s remaining: 672ms
109: learn: 1886.0081791 test: 1877.3136537 best: 1877.3136537 (109) total: 1.8s remaining: 655ms
110: learn: 1884.9024309 test: 1876.1910155 best: 1876.1910155 (110) total: 1.81s remaining: 638ms
111: learn: 1882.5007535 test: 1873.7133979 best: 1873.7133979 (111) total: 1.83s remaining: 621ms
112: learn: 1881.5065732 test: 1872.7183125 best: 1872.7183125 (112) total: 1.84s remaining: 604ms
113: learn: 1879.7703449 test: 1870.6333230 best: 1870.6333230 (113) total: 1.87s remaining: 591ms
114: learn: 1878.3286485 test: 1869.3479461 best: 1869.3479461 (114) total: 1.89s remaining: 574ms
115: learn: 1875.9454063 test: 1867.2520832 best: 1867.2520832 (115) total: 1.9s remaining: 557ms
116: learn: 1873.5327067 test: 1864.7933396 best: 1864.7933396 (116) total: 1.92s remaining: 541ms

117: learn: 1872.2779158 test: 1863.6559484 best: 1863.6559484 (117) total: 1.93s remaining: 524ms
118: learn: 1870.6364060 test: 1861.9128223 best: 1861.9128223 (118) total: 1.95s remaining: 509ms
119: learn: 1869.5122698 test: 1861.4514251 best: 1861.4514251 (119) total: 1.98s remaining: 494ms
120: learn: 1867.2410819 test: 1859.1421938 best: 1859.1421938 (120) total: 2s remaining: 478ms
121: learn: 1865.1323162 test: 1857.1582561 best: 1857.1582561 (121) total: 2.01s remaining: 462ms
122: learn: 1863.8515086 test: 1855.9420645 best: 1855.9420645 (122) total: 2.03s remaining: 446ms
123: learn: 1862.6048338 test: 1854.7011457 best: 1854.7011457 (123) total: 2.07s remaining: 433ms
124: learn: 1861.8190263 test: 1853.8005882 best: 1853.8005882 (124) total: 2.08s remaining: 416ms
125: learn: 1860.7127406 test: 1852.8855075 best: 1852.8855075 (125) total: 2.1s remaining: 399ms
126: learn: 1859.8083130 test: 1852.2861139 best: 1852.2861139 (126) total: 2.11s remaining: 382ms
127: learn: 1858.9948256 test: 1851.3992150 best: 1851.3992150 (127) total: 2.13s remaining: 365ms
128: learn: 1857.8452779 test: 1850.3816018 best: 1850.3816018 (128) total: 2.14s remaining: 349ms
129: learn: 1856.4255168 test: 1849.3568154 best: 1849.3568154 (129) total: 2.17s remaining: 334ms
130: learn: 1854.2498749 test: 1847.2682593 best: 1847.2682593 (130) total: 2.19s remaining: 318ms
131: learn: 1852.9182261 test: 1845.9545487 best: 1845.9545487 (131) total: 2.21s remaining: 302ms
132: learn: 1851.5380497 test: 1844.5354378 best: 1844.5354378 (132) total: 2.23s remaining: 285ms
133: learn: 1850.6577791 test: 1843.6978984 best: 1843.6978984 (133) total: 2.25s remaining: 268ms
134: learn: 1849.9231145 test: 1843.1726904 best: 1843.1726904 (134) total: 2.27s remaining: 252ms
135: learn: 1848.7874496 test: 1842.0978153 best: 1842.0978153 (135) total: 2.28s remaining: 235ms
136: learn: 1847.3956742 test: 1840.6824130 best: 1840.6824130 (136) total: 2.3s remaining: 218ms
137: learn: 1845.3927383 test: 1839.1447837 best: 1839.1447837 (137) total: 2.31s remaining: 201ms
138: learn: 1844.4020302 test: 1838.0774869 best: 1838.0774869 (138) total: 2.33s remaining: 184ms
139: learn: 1843.4405550 test: 1837.1483577 best: 1837.1483577 (139) total: 2.35s remaining: 168ms
140: learn: 1841.5008730 test: 1835.1065523 best: 1835.1065523 (140) total: 2.37s remaining: 152ms
141: learn: 1840.6475677 test: 1834.2578511 best: 1834.2578511 (141) total: 2.39s remaining: 135ms
142: learn: 1839.7798188 test: 1833.4573504 best: 1833.4573504 (142) total: 2.4s remaining: 118ms
143: learn: 1838.2638249 test: 1832.2922060 best: 1832.2922060 (143) total: 2.42s remaining: 101ms
144: learn: 1837.2604682 test: 1831.4200107 best: 1831.4200107 (144) total: 2.43s remaining: 83.9ms
145: learn: 1836.2689188 test: 1830.5896101 best: 1830.5896101 (145) total: 2.46s remaining: 67.3ms
146: learn: 1835.3752398 test: 1829.8578257 best: 1829.8578257 (146) total: 2.47s remaining: 50.5ms
147: learn: 1834.6433096 test: 1829.2958899 best: 1829.2958899 (147) total: 2.49s remaining: 33.6ms
148: learn: 1834.0234662 test: 1828.7243212 best: 1828.7243212 (148) total: 2.5s remaining: 16.8ms
149: learn: 1833.2925955 test: 1828.0033619 best: 1828.0033619 (149) total: 2.52s remaining: 0us

bestTest = 1828.003362

bestIteration = 149

35: loss: 1828.0033619 best: 1827.9322239 (33) total: 1m 12s remaining: 2m 1s

0: learn: 6809.5571969 test: 6837.6609651 best: 6837.6609651 (0) total: 26.3ms remaining: 3.92s

1: learn: 6643.1507909 test: 6670.9025374 best: 6670.9025374 (1) total: 45.2ms remaining: 3.35s

2: learn: 6482.8101375 test: 6510.6966188 best: 6510.6966188 (2) total: 61.6ms remaining: 3.02s

3: learn: 6228.6751881 test: 6257.2112777 best: 6257.2112777 (3) total: 77.7ms remaining: 2.62s

3: learn: 6329.3751281 test: 6357.6116777 best: 6357.6116777 (3) total: 77.7ms remaining: 2.83s
4: learn: 6179.8953713 test: 6208.3324913 best: 6208.3324913 (4) total: 95.1ms remaining: 2.76s
5: learn: 6033.8706363 test: 6062.3585793 best: 6062.3585793 (5) total: 124ms remaining: 2.98s
6: learn: 5893.9766859 test: 5922.5597840 best: 5922.5597840 (6) total: 142ms remaining: 2.9s
7: learn: 5758.5959457 test: 5786.9170325 best: 5786.9170325 (7) total: 159ms remaining: 2.83s
8: learn: 5626.9907262 test: 5655.0975720 best: 5655.0975720 (8) total: 176ms remaining: 2.75s
9: learn: 5501.6131882 test: 5529.7317017 best: 5529.7317017 (9) total: 194ms remaining: 2.72s
10: learn: 5380.2009017 test: 5408.2956219 best: 5408.2956219 (10) total: 218ms remaining: 2.75s
11: learn: 5262.6701039 test: 5290.7965319 best: 5290.7965319 (11) total: 240ms remaining: 2.77s
12: learn: 5149.1890134 test: 5177.2062981 best: 5177.2062981 (12) total: 258ms remaining: 2.72s
13: learn: 5039.8875300 test: 5067.8280500 best: 5067.8280500 (13) total: 276ms remaining: 2.68s
14: learn: 4934.4382484 test: 4962.3210113 best: 4962.3210113 (14) total: 294ms remaining: 2.65s
15: learn: 4832.9940303 test: 4860.5304964 best: 4860.5304964 (15) total: 324ms remaining: 2.71s
16: learn: 4734.4054108 test: 4761.6629870 best: 4761.6629870 (16) total: 344ms remaining: 2.69s
17: learn: 4640.0010390 test: 4666.8587806 best: 4666.8587806 (17) total: 361ms remaining: 2.65s
18: learn: 4549.9382713 test: 4576.4928539 best: 4576.4928539 (18) total: 378ms remaining: 2.61s
19: learn: 4462.2460464 test: 4488.6554217 best: 4488.6554217 (19) total: 399ms remaining: 2.6s
20: learn: 4376.8736761 test: 4402.9110322 best: 4402.9110322 (20) total: 434ms remaining: 2.67s
21: learn: 4294.9668512 test: 4320.6519551 best: 4320.6519551 (21) total: 453ms remaining: 2.63s
22: learn: 4214.5999353 test: 4240.3413765 best: 4240.3413765 (22) total: 470ms remaining: 2.59s
23: learn: 4137.7828813 test: 4163.4843485 best: 4163.4843485 (23) total: 486ms remaining: 2.55s
24: learn: 4064.9454104 test: 4090.2381504 best: 4090.2381504 (24) total: 502ms remaining: 2.51s
25: learn: 3993.6837771 test: 4018.4365116 best: 4018.4365116 (25) total: 533ms remaining: 2.54s
26: learn: 3924.4664594 test: 3949.0946907 best: 3949.0946907 (26) total: 550ms remaining: 2.5s
27: learn: 3860.9302879 test: 3885.1069674 best: 3885.1069674 (27) total: 566ms remaining: 2.47s
28: learn: 3797.5896271 test: 3821.3195227 best: 3821.3195227 (28) total: 583ms remaining: 2.43s
29: learn: 3736.7736382 test: 3759.9546316 best: 3759.9546316 (29) total: 601ms remaining: 2.4s
30: learn: 3677.9894252 test: 3700.9697384 best: 3700.9697384 (30) total: 628ms remaining: 2.41s
31: learn: 3620.8639624 test: 3643.3748072 best: 3643.3748072 (31) total: 651ms remaining: 2.4s
32: learn: 3567.8566619 test: 3590.0770152 best: 3590.0770152 (32) total: 668ms remaining: 2.37s
33: learn: 3515.8468097 test: 3537.5872494 best: 3537.5872494 (33) total: 685ms remaining: 2.34s
34: learn: 3465.7869308 test: 3486.6871293 best: 3486.6871293 (34) total: 701ms remaining: 2.3s
35: learn: 3417.7529053 test: 3438.2894344 best: 3438.2894344 (35) total: 724ms remaining: 2.29s
36: learn: 3371.1431849 test: 3391.1788062 best: 3391.1788062 (36) total: 740ms remaining: 2.26s
37: learn: 3327.7536932 test: 3347.5008487 best: 3347.5008487 (37) total: 756ms remaining: 2.23s
38: learn: 3283.6431295 test: 3302.7510357 best: 3302.7510357 (38) total: 771ms remaining: 2.19s
39: learn: 3242.7566838 test: 3261.0879579 best: 3261.0879579 (39) total: 787ms remaining: 2.16s
40: learn: 3203.8256945 test: 3221.8981986 best: 3221.8981986 (40) total: 812ms remaining: 2.16s
41: learn: 3165.1673949 test: 3182.6791046 best: 3182.6791046 (41) total: 831ms remaining: 2.14s
42: learn: 3130.3493382 test: 3147.4229102 best: 3147.4229102 (42) total: 847ms remaining: 2.11s
43: learn: 3095.9980180 test: 3112.4860317 best: 3112.4860317 (43) total: 863ms remaining: 2.08s
44: learn: 3062.8159371 test: 3078.7419104 best: 3078.7419104 (44) total: 879ms remaining: 2.05s

45: learn: 3030.5827711 test: 3045.9317940 best: 3045.9317940 (45) total: 894ms remaining: 2.02s
46: learn: 3000.4440906 test: 3015.4844702 best: 3015.4844702 (46) total: 922ms remaining: 2.02s
47: learn: 2970.5552510 test: 2985.2231190 best: 2985.2231190 (47) total: 939ms remaining: 2s
48: learn: 2942.2486068 test: 2956.5636158 best: 2956.5636158 (48) total: 955ms remaining: 1.97s
49: learn: 2914.7848248 test: 2928.9490416 best: 2928.9490416 (49) total: 971ms remaining: 1.94s
50: learn: 2889.2625179 test: 2903.1667117 best: 2903.1667117 (50) total: 986ms remaining: 1.91s
51: learn: 2863.3747870 test: 2876.6094728 best: 2876.6094728 (51) total: 1s remaining: 1.89s
52: learn: 2838.8356694 test: 2851.5139051 best: 2851.5139051 (52) total: 1.03s remaining: 1.88s
53: learn: 2816.3121908 test: 2828.7253423 best: 2828.7253423 (53) total: 1.04s remaining: 1.86s
54: learn: 2793.8210366 test: 2805.7283318 best: 2805.7283318 (54) total: 1.06s remaining: 1.83s
55: learn: 2772.4987678 test: 2783.6671492 best: 2783.6671492 (55) total: 1.08s remaining: 1.81s
56: learn: 2751.6345521 test: 2762.2791033 best: 2762.2791033 (56) total: 1.09s remaining: 1.78s
57: learn: 2731.9210744 test: 2742.3933550 best: 2742.3933550 (57) total: 1.12s remaining: 1.77s
58: learn: 2712.0205323 test: 2721.9530280 best: 2721.9530280 (58) total: 1.14s remaining: 1.75s
59: learn: 2693.0342309 test: 2702.4258875 best: 2702.4258875 (59) total: 1.15s remaining: 1.73s
60: learn: 2674.4944303 test: 2683.3343104 best: 2683.3343104 (60) total: 1.17s remaining: 1.7s
61: learn: 2657.5434674 test: 2666.1239270 best: 2666.1239270 (61) total: 1.18s remaining: 1.68s
62: learn: 2639.8455057 test: 2648.0170364 best: 2648.0170364 (62) total: 1.2s remaining: 1.65s
63: learn: 2624.3390331 test: 2632.2668006 best: 2632.2668006 (63) total: 1.22s remaining: 1.64s
64: learn: 2609.0046257 test: 2616.3517366 best: 2616.3517366 (64) total: 1.24s remaining: 1.62s
65: learn: 2594.5783546 test: 2601.5029133 best: 2601.5029133 (65) total: 1.26s remaining: 1.6s
66: learn: 2579.8004583 test: 2586.3055498 best: 2586.3055498 (66) total: 1.27s remaining: 1.57s
67: learn: 2566.1189489 test: 2572.2121996 best: 2572.2121996 (67) total: 1.29s remaining: 1.55s
68: learn: 2553.1751911 test: 2559.1552027 best: 2559.1552027 (68) total: 1.31s remaining: 1.54s
69: learn: 2538.8036129 test: 2544.1910762 best: 2544.1910762 (69) total: 1.33s remaining: 1.52s
70: learn: 2526.1877900 test: 2531.0932514 best: 2531.0932514 (70) total: 1.35s remaining: 1.5s
71: learn: 2513.8522671 test: 2518.3651847 best: 2518.3651847 (71) total: 1.36s remaining: 1.48s
72: learn: 2502.1801246 test: 2506.4639373 best: 2506.4639373 (72) total: 1.38s remaining: 1.46s
73: learn: 2489.9978701 test: 2493.9140300 best: 2493.9140300 (73) total: 1.4s remaining: 1.43s
74: learn: 2478.5147731 test: 2481.8828446 best: 2481.8828446 (74) total: 1.43s remaining: 1.43s
75: learn: 2467.8395991 test: 2470.8788515 best: 2470.8788515 (75) total: 1.44s remaining: 1.4s
76: learn: 2457.7066138 test: 2460.5246079 best: 2460.5246079 (76) total: 1.46s remaining: 1.38s
77: learn: 2447.8377469 test: 2450.2717760 best: 2450.2717760 (77) total: 1.47s remaining: 1.36s
78: learn: 2438.1402018 test: 2440.4109508 best: 2440.4109508 (78) total: 1.49s remaining: 1.34s
79: learn: 2427.8220716 test: 2429.7188850 best: 2429.7188850 (79) total: 1.51s remaining: 1.32s
80: learn: 2418.8485257 test: 2420.4181455 best: 2420.4181455 (80) total: 1.53s remaining: 1.3s
81: learn: 2409.4674082 test: 2410.6759895 best: 2410.6759895 (81) total: 1.54s remaining: 1.28s
82: learn: 2400.2584174 test: 2401.0660686 best: 2401.0660686 (82) total: 1.56s remaining: 1.26s
83: learn: 2391.9892391 test: 2392.4563665 best: 2392.4563665 (83) total: 1.58s remaining: 1.24s
84: learn: 2383.5611407 test: 2383.6818991 best: 2383.6818991 (84) total: 1.59s remaining: 1.22s
85: learn: 2376.3216079 test: 2376.2718254 best: 2376.2718254 (85) total: 1.62s remaining: 1.2s

86: learn: 2368.4904699 test: 2368.2747132 best: 2368.2747132 (86) total: 1.63s remaining: 1.18s
87: learn: 2361.1335893 test: 2360.5894557 best: 2360.5894557 (87) total: 1.65s remaining: 1.16s
88: learn: 2352.7978574 test: 2351.9643045 best: 2351.9643045 (88) total: 1.67s remaining: 1.14s
89: learn: 2345.7577604 test: 2344.5564906 best: 2344.5564906 (89) total: 1.68s remaining: 1.12s
90: learn: 2339.0871392 test: 2337.6174958 best: 2337.6174958 (90) total: 1.7s remaining: 1.1s
91: learn: 2332.3520730 test: 2330.3994468 best: 2330.3994468 (91) total: 1.73s remaining: 1.09s
92: learn: 2326.1868045 test: 2323.9754766 best: 2323.9754766 (92) total: 1.74s remaining: 1.07s
93: learn: 2319.1804781 test: 2316.8113855 best: 2316.8113855 (93) total: 1.76s remaining: 1.05s
94: learn: 2313.5748739 test: 2311.1490472 best: 2311.1490472 (94) total: 1.77s remaining: 1.03s
95: learn: 2307.7236713 test: 2305.1151681 best: 2305.1151681 (95) total: 1.79s remaining: 1.01s
96: learn: 2302.1205980 test: 2299.5116060 best: 2299.5116060 (96) total: 1.81s remaining: 992ms
97: learn: 2296.4560063 test: 2293.5697068 best: 2293.5697068 (97) total: 1.83s remaining: 972ms
98: learn: 2291.4227706 test: 2288.3575877 best: 2288.3575877 (98) total: 1.85s remaining: 952ms
99: learn: 2285.8188807 test: 2282.2860149 best: 2282.2860149 (99) total: 1.86s remaining: 931ms
100: learn: 2280.5607646 test: 2276.9413743 best: 2276.9413743 (100) total: 1.88s remaining: 911ms
101: learn: 2275.3302347 test: 2271.4915395 best: 2271.4915395 (101) total: 1.89s remaining: 891ms
102: learn: 2270.4624353 test: 2266.2747468 best: 2266.2747468 (102) total: 1.91s remaining: 872ms
103: learn: 2265.5185334 test: 2261.1867924 best: 2261.1867924 (103) total: 1.93s remaining: 852ms
104: learn: 2261.2976536 test: 2256.5254502 best: 2256.5254502 (104) total: 1.94s remaining: 832ms
105: learn: 2255.9725152 test: 2251.0379479 best: 2251.0379479 (105) total: 1.96s remaining: 813ms
106: learn: 2251.3997459 test: 2246.2789463 best: 2246.2789463 (106) total: 1.97s remaining: 793ms
107: learn: 2247.0918009 test: 2241.8516984 best: 2241.8516984 (107) total: 1.99s remaining: 773ms
108: learn: 2242.1425496 test: 2236.7119848 best: 2236.7119848 (108) total: 2.01s remaining: 758ms
109: learn: 2237.9559922 test: 2232.4603371 best: 2232.4603371 (109) total: 2.03s remaining: 739ms
110: learn: 2233.5429016 test: 2227.9946745 best: 2227.9946745 (110) total: 2.05s remaining: 719ms
111: learn: 2229.8179138 test: 2224.1499570 best: 2224.1499570 (111) total: 2.06s remaining: 700ms
112: learn: 2225.5335479 test: 2219.7967152 best: 2219.7967152 (112) total: 2.08s remaining: 680ms
113: learn: 2221.8213041 test: 2215.9966274 best: 2215.9966274 (113) total: 2.1s remaining: 664ms
114: learn: 2218.2706535 test: 2212.4190690 best: 2212.4190690 (114) total: 2.12s remaining: 645ms
115: learn: 2214.0211494 test: 2207.8355514 best: 2207.8355514 (115) total: 2.13s remaining: 626ms
116: learn: 2210.3251022 test: 2204.0793977 best: 2204.0793977 (116) total: 2.15s remaining: 606ms
117: learn: 2206.4986640 test: 2200.1043796 best: 2200.1043796 (117) total: 2.16s remaining: 587ms
118: learn: 2203.1230304 test: 2196.5957222 best: 2196.5957222 (118) total: 2.18s remaining: 568ms
119: learn: 2199.9144293 test: 2193.1989678 best: 2193.1989678 (119) total: 2.21s remaining: 552ms
120: learn: 2196.8684468 test: 2190.1668408 best: 2190.1668408 (120) total: 2.22s remaining: 533ms
121: learn: 2192.9986787 test: 2186.0955043 best: 2186.0955043 (121) total: 2.24s remaining: 515ms
122: learn: 2189.8496822 test: 2182.7349137 best: 2182.7349137 (122) total: 2.26s remaining: 496ms
123: learn: 2185.6300072 test: 2178.3266589 best: 2178.3266589 (123) total: 2.28s remaining: 478ms
124: learn: 2182.4904382 test: 2175.1781729 best: 2175.1781729 (124) total: 2.31s remaining: 461ms
125: learn: 2179.0196251 test: 2171.4277691 best: 2171.4277691 (125) total: 2.32s remaining: 443ms
126: learn: 2176.3204176 test: 2168.6198332 best: 2168.6198332 (126) total: 2.34s remaining: 424ms

127: learn: 2173.2121513 test: 2165.5505961 best: 2165.5505961 (127) total: 2.36s remaining: 405ms
128: learn: 2170.5716593 test: 2162.7578451 best: 2162.7578451 (128) total: 2.38s remaining: 387ms
129: learn: 2167.7946208 test: 2160.0740444 best: 2160.0740444 (129) total: 2.4s remaining: 369ms
130: learn: 2164.6138425 test: 2156.8837454 best: 2156.8837454 (130) total: 2.42s remaining: 351ms
131: learn: 2160.9635436 test: 2153.2159663 best: 2153.2159663 (131) total: 2.44s remaining: 332ms
132: learn: 2158.0018321 test: 2149.8896610 best: 2149.8896610 (132) total: 2.45s remaining: 313ms
133: learn: 2155.6104183 test: 2147.5700666 best: 2147.5700666 (133) total: 2.47s remaining: 294ms
134: learn: 2152.7434808 test: 2144.5255961 best: 2144.5255961 (134) total: 2.48s remaining: 276ms
135: learn: 2150.4170652 test: 2142.2439218 best: 2142.2439218 (135) total: 2.51s remaining: 258ms
136: learn: 2147.4238426 test: 2139.1903111 best: 2139.1903111 (136) total: 2.52s remaining: 240ms
137: learn: 2145.2276743 test: 2137.0490214 best: 2137.0490214 (137) total: 2.54s remaining: 221ms
138: learn: 2142.5227086 test: 2134.3563957 best: 2134.3563957 (138) total: 2.56s remaining: 202ms
139: learn: 2140.0678780 test: 2131.9006091 best: 2131.9006091 (139) total: 2.57s remaining: 184ms
140: learn: 2137.6464322 test: 2129.3890589 best: 2129.3890589 (140) total: 2.6s remaining: 166ms
141: learn: 2135.1786711 test: 2126.8572788 best: 2126.8572788 (141) total: 2.62s remaining: 147ms
142: learn: 2132.6873507 test: 2124.3162053 best: 2124.3162053 (142) total: 2.63s remaining: 129ms
143: learn: 2129.3174252 test: 2120.8398171 best: 2120.8398171 (143) total: 2.65s remaining: 110ms
144: learn: 2126.8193429 test: 2118.3942365 best: 2118.3942365 (144) total: 2.66s remaining: 91.8ms
145: learn: 2124.1946959 test: 2115.7832118 best: 2115.7832118 (145) total: 2.68s remaining: 73.4ms
146: learn: 2122.2865656 test: 2113.9299066 best: 2113.9299066 (146) total: 2.71s remaining: 55.2ms
147: learn: 2120.3387577 test: 2112.0844725 best: 2112.0844725 (147) total: 2.72s remaining: 36.8ms
148: learn: 2118.3309040 test: 2109.9723038 best: 2109.9723038 (148) total: 2.74s remaining: 18.4ms
149: learn: 2116.1039268 test: 2107.6258930 best: 2107.6258930 (149) total: 2.75s remaining: 0us

bestTest = 2107.625893

bestIteration = 149

36: loss: 2107.6258930 best: 1827.9322239 (33) total: 1m 15s remaining: 2m
0: learn: 6410.7448915 test: 6438.8543649 best: 6438.8543649 (0) total: 17.1ms remaining: 2.55s
1: learn: 5902.9147828 test: 5929.7023142 best: 5929.7023142 (1) total: 46.9ms remaining: 3.47s
2: learn: 5454.9518644 test: 5481.9714086 best: 5481.9714086 (2) total: 63.2ms remaining: 3.1s
3: learn: 5062.8192179 test: 5090.3440109 best: 5090.3440109 (3) total: 79.1ms remaining: 2.89s
4: learn: 4707.7163674 test: 4734.6824972 best: 4734.6824972 (4) total: 95.3ms remaining: 2.76s
5: learn: 4396.3963781 test: 4423.3128630 best: 4423.3128630 (5) total: 111ms remaining: 2.67s
6: learn: 4126.3274495 test: 4152.3592630 best: 4152.3592630 (6) total: 139ms remaining: 2.84s
7: learn: 3885.2494478 test: 3910.2672178 best: 3910.2672178 (7) total: 155ms remaining: 2.76s
8: learn: 3673.4523330 test: 3696.6046848 best: 3696.6046848 (8) total: 172ms remaining: 2.69s
9: learn: 3488.9451741 test: 3510.6983239 best: 3510.6983239 (9) total: 187ms remaining: 2.62s
10: learn: 3330.3703222 test: 3351.1933805 best: 3351.1933805 (10) total: 204ms remaining: 2.58s
11: learn: 3189.4619049 test: 3209.2234248 best: 3209.2234248 (11) total: 229ms remaining: 2.63s
12: learn: 3072.6221062 test: 3090.5485193 best: 3090.5485193 (12) total: 248ms remaining: 2.61s
13: learn: 2962.1008776 test: 2979.4508107 best: 2979.4508107 (13) total: 263ms remaining: 2.56s

13: learn: 2962.1008776 test: 2978.4508107 best: 2978.4508107 (13) total: 263ms remaining: 2.56s
14: learn: 2871.4359760 test: 2886.1431357 best: 2886.1431357 (14) total: 279ms remaining: 2.51s
15: learn: 2792.3077335 test: 2804.5908983 best: 2804.5908983 (15) total: 295ms remaining: 2.47s
16: learn: 2723.8211788 test: 2735.2005377 best: 2735.2005377 (16) total: 311ms remaining: 2.43s
17: learn: 2663.4854236 test: 2672.8265131 best: 2672.8265131 (17) total: 336ms remaining: 2.46s
18: learn: 2609.4610821 test: 2618.1210979 best: 2618.1210979 (18) total: 352ms remaining: 2.43s
19: learn: 2563.1023719 test: 2570.9781324 best: 2570.9781324 (19) total: 367ms remaining: 2.39s
20: learn: 2516.3627278 test: 2522.6489141 best: 2522.6489141 (20) total: 382ms remaining: 2.35s
21: learn: 2476.9616758 test: 2481.8573661 best: 2481.8573661 (21) total: 398ms remaining: 2.31s
22: learn: 2440.7974362 test: 2444.6345109 best: 2444.6345109 (22) total: 413ms remaining: 2.28s
23: learn: 2407.4738753 test: 2409.9780900 best: 2409.9780900 (23) total: 438ms remaining: 2.3s
24: learn: 2378.9071519 test: 2380.3458861 best: 2380.3458861 (24) total: 455ms remaining: 2.27s
25: learn: 2355.0608747 test: 2355.2448591 best: 2355.2448591 (25) total: 473ms remaining: 2.25s
26: learn: 2332.7457154 test: 2332.5155126 best: 2332.5155126 (26) total: 493ms remaining: 2.25s
27: learn: 2312.8417631 test: 2312.3556075 best: 2312.3556075 (27) total: 511ms remaining: 2.23s
28: learn: 2293.6695306 test: 2293.0290639 best: 2293.0290639 (28) total: 541ms remaining: 2.26s
29: learn: 2276.0473957 test: 2274.4582896 best: 2274.4582896 (29) total: 557ms remaining: 2.23s
30: learn: 2259.7833348 test: 2257.5379996 best: 2257.5379996 (30) total: 575ms remaining: 2.21s
31: learn: 2243.3622174 test: 2240.7185295 best: 2240.7185295 (31) total: 593ms remaining: 2.19s
32: learn: 2229.0987003 test: 2225.2623108 best: 2225.2623108 (32) total: 614ms remaining: 2.18s
33: learn: 2217.6802803 test: 2213.0629755 best: 2213.0629755 (33) total: 639ms remaining: 2.18s
34: learn: 2203.3671648 test: 2198.3638944 best: 2198.3638944 (34) total: 656ms remaining: 2.15s
35: learn: 2192.9049417 test: 2187.3274414 best: 2187.3274414 (35) total: 672ms remaining: 2.13s
36: learn: 2181.9985066 test: 2176.3650331 best: 2176.3650331 (36) total: 688ms remaining: 2.1s
37: learn: 2171.7500977 test: 2165.9320501 best: 2165.9320501 (37) total: 704ms remaining: 2.08s
38: learn: 2162.4671379 test: 2156.2565302 best: 2156.2565302 (38) total: 729ms remaining: 2.08s
39: learn: 2154.3642612 test: 2147.7332384 best: 2147.7332384 (39) total: 748ms remaining: 2.06s
40: learn: 2144.8238683 test: 2137.9799623 best: 2137.9799623 (40) total: 764ms remaining: 2.03s
41: learn: 2132.2280743 test: 2124.6574800 best: 2124.6574800 (41) total: 781ms remaining: 2.01s
42: learn: 2123.7962854 test: 2116.3924126 best: 2116.3924126 (42) total: 797ms remaining: 1.98s
43: learn: 2116.7745707 test: 2109.4789082 best: 2109.4789082 (43) total: 818ms remaining: 1.97s
44: learn: 2109.4816015 test: 2101.9939679 best: 2101.9939679 (44) total: 842ms remaining: 1.96s
45: learn: 2102.8827375 test: 2095.7032734 best: 2095.7032734 (45) total: 857ms remaining: 1.94s
46: learn: 2096.5764173 test: 2089.7544641 best: 2089.7544641 (46) total: 872ms remaining: 1.91s
47: learn: 2088.8000309 test: 2081.7813805 best: 2081.7813805 (47) total: 887ms remaining: 1.88s
48: learn: 2081.6349878 test: 2074.1541857 best: 2074.1541857 (48) total: 902ms remaining: 1.86s
49: learn: 2075.6786548 test: 2068.0500727 best: 2068.0500727 (49) total: 919ms remaining: 1.84s
50: learn: 2067.9842614 test: 2060.1500310 best: 2060.1500310 (50) total: 943ms remaining: 1.83s
51: learn: 2062.7097661 test: 2055.1746152 best: 2055.1746152 (51) total: 959ms remaining: 1.81s
52: learn: 2058.4387689 test: 2050.7952359 best: 2050.7952359 (52) total: 977ms remaining: 1.79s
53: learn: 2054.0561096 test: 2046.4044624 best: 2046.4044624 (53) total: 990ms remaining: 1.76s
54: learn: 2048.7058161 test: 2040.9899185 best: 2040.9899185 (54) total: 1.01s remaining: 1.74s

55: learn: 2042.8547693 test: 2034.7338477 best: 2034.7338477 (55) total: 1.03s remaining: 1.73s
56: learn: 2037.9313662 test: 2029.8631212 best: 2029.8631212 (56) total: 1.04s remaining: 1.7s
57: learn: 2033.1186916 test: 2025.1284079 best: 2025.1284079 (57) total: 1.06s remaining: 1.68s
58: learn: 2028.6281771 test: 2021.3189144 best: 2021.3189144 (58) total: 1.07s remaining: 1.66s
59: learn: 2024.9633947 test: 2017.5590714 best: 2017.5590714 (59) total: 1.09s remaining: 1.63s
60: learn: 2019.0044095 test: 2011.4574647 best: 2011.4574647 (60) total: 1.1s remaining: 1.61s
61: learn: 2015.4692309 test: 2008.2249387 best: 2008.2249387 (61) total: 1.13s remaining: 1.6s
62: learn: 2009.2505756 test: 2001.5594503 best: 2001.5594503 (62) total: 1.14s remaining: 1.58s
63: learn: 2006.0578762 test: 1998.0766673 best: 1998.0766673 (63) total: 1.16s remaining: 1.56s
64: learn: 2002.8267678 test: 1994.8211197 best: 1994.8211197 (64) total: 1.17s remaining: 1.53s
65: learn: 1998.2085456 test: 1990.1032958 best: 1990.1032958 (65) total: 1.19s remaining: 1.51s
66: learn: 1995.2320680 test: 1987.4418227 best: 1987.4418227 (66) total: 1.2s remaining: 1.49s
67: learn: 1992.6275219 test: 1984.9614905 best: 1984.9614905 (67) total: 1.23s remaining: 1.49s
68: learn: 1988.3736889 test: 1980.7843341 best: 1980.7843341 (68) total: 1.25s remaining: 1.46s
69: learn: 1985.0627054 test: 1977.5249086 best: 1977.5249086 (69) total: 1.26s remaining: 1.44s
70: learn: 1979.5868340 test: 1972.1314534 best: 1972.1314534 (70) total: 1.28s remaining: 1.42s
71: learn: 1977.3058819 test: 1970.0152159 best: 1970.0152159 (71) total: 1.29s remaining: 1.4s
72: learn: 1972.9482940 test: 1965.4925938 best: 1965.4925938 (72) total: 1.31s remaining: 1.38s
73: learn: 1970.5713339 test: 1962.8377553 best: 1962.8377553 (73) total: 1.32s remaining: 1.36s
74: learn: 1967.9030916 test: 1960.4204353 best: 1960.4204353 (74) total: 1.34s remaining: 1.34s
75: learn: 1965.7054595 test: 1958.3552607 best: 1958.3552607 (75) total: 1.35s remaining: 1.32s
76: learn: 1962.8761500 test: 1955.6701680 best: 1955.6701680 (76) total: 1.37s remaining: 1.3s
77: learn: 1960.5522053 test: 1953.2884748 best: 1953.2884748 (77) total: 1.39s remaining: 1.28s
78: learn: 1956.4735126 test: 1948.9857026 best: 1948.9857026 (78) total: 1.4s remaining: 1.26s
79: learn: 1952.7307746 test: 1945.3079084 best: 1945.3079084 (79) total: 1.42s remaining: 1.24s
80: learn: 1949.7235752 test: 1942.2378752 best: 1942.2378752 (80) total: 1.44s remaining: 1.22s
81: learn: 1946.8653698 test: 1939.5615954 best: 1939.5615954 (81) total: 1.45s remaining: 1.2s
82: learn: 1944.3201673 test: 1936.6926794 best: 1936.6926794 (82) total: 1.48s remaining: 1.19s
83: learn: 1941.8467799 test: 1933.9394222 best: 1933.9394222 (83) total: 1.49s remaining: 1.17s
84: learn: 1937.0175638 test: 1928.8673989 best: 1928.8673989 (84) total: 1.51s remaining: 1.16s
85: learn: 1934.4587698 test: 1926.0694023 best: 1926.0694023 (85) total: 1.53s remaining: 1.14s
86: learn: 1931.9307870 test: 1923.5791898 best: 1923.5791898 (86) total: 1.54s remaining: 1.12s
87: learn: 1929.8287961 test: 1921.3314182 best: 1921.3314182 (87) total: 1.56s remaining: 1.1s
88: learn: 1926.9130409 test: 1918.3145131 best: 1918.3145131 (88) total: 1.57s remaining: 1.08s
89: learn: 1924.2112212 test: 1915.6652403 best: 1915.6652403 (89) total: 1.59s remaining: 1.06s
90: learn: 1922.4746957 test: 1913.9700190 best: 1913.9700190 (90) total: 1.61s remaining: 1.04s
91: learn: 1920.9917789 test: 1912.6338313 best: 1912.6338313 (91) total: 1.62s remaining: 1.02s
92: learn: 1919.5776687 test: 1911.6274543 best: 1911.6274543 (92) total: 1.64s remaining: 1s
93: learn: 1917.8492714 test: 1909.8999381 best: 1909.8999381 (93) total: 1.65s remaining: 984ms
94: learn: 1916.4625598 test: 1908.4476186 best: 1908.4476186 (94) total: 1.67s remaining: 966ms
95: learn: 1914.6885677 test: 1906.5442397 best: 1906.5442397 (95) total: 1.68s remaining: 947ms

96: learn: 1913.1094487 test: 1905.0379993 best: 1905.0379993 (96) total: 1.7s remaining: 928ms
97: learn: 1911.0847556 test: 1903.1718920 best: 1903.1718920 (97) total: 1.72s remaining: 910ms
98: learn: 1909.3541314 test: 1901.3940392 best: 1901.3940392 (98) total: 1.73s remaining: 891ms
99: learn: 1906.1127986 test: 1897.9018000 best: 1897.9018000 (99) total: 1.75s remaining: 873ms
100: learn: 1904.8632015 test: 1896.7362921 best: 1896.7362921 (100) total: 1.76s remaining: 854ms
101: learn: 1902.8626391 test: 1895.2372457 best: 1895.2372457 (101) total: 1.78s remaining: 836ms
102: learn: 1901.5587033 test: 1894.0453056 best: 1894.0453056 (102) total: 1.79s remaining: 817ms
103: learn: 1899.7685787 test: 1892.3799116 best: 1892.3799116 (103) total: 1.81s remaining: 801ms
104: learn: 1897.1167901 test: 1889.5187136 best: 1889.5187136 (104) total: 1.83s remaining: 783ms
105: learn: 1895.5821928 test: 1888.0638464 best: 1888.0638464 (105) total: 1.84s remaining: 765ms
106: learn: 1892.5594353 test: 1884.8317826 best: 1884.8317826 (106) total: 1.86s remaining: 747ms
107: learn: 1890.4480825 test: 1882.5437060 best: 1882.5437060 (107) total: 1.87s remaining: 729ms
108: learn: 1889.2351218 test: 1881.6931776 best: 1881.6931776 (108) total: 1.89s remaining: 710ms
109: learn: 1887.9812796 test: 1880.4457714 best: 1880.4457714 (109) total: 1.91s remaining: 693ms
110: learn: 1886.6063418 test: 1879.2532364 best: 1879.2532364 (110) total: 1.92s remaining: 676ms
111: learn: 1885.4532030 test: 1878.2723272 best: 1878.2723272 (111) total: 1.94s remaining: 658ms
112: learn: 1884.2146994 test: 1877.2207708 best: 1877.2207708 (112) total: 1.96s remaining: 640ms
113: learn: 1882.6398197 test: 1875.8293343 best: 1875.8293343 (113) total: 1.97s remaining: 622ms
114: learn: 1881.1042363 test: 1874.4060451 best: 1874.4060451 (114) total: 1.99s remaining: 605ms
115: learn: 1879.3666963 test: 1872.7093165 best: 1872.7093165 (115) total: 2.01s remaining: 589ms
116: learn: 1876.9940354 test: 1870.4575995 best: 1870.4575995 (116) total: 2.03s remaining: 572ms
117: learn: 1875.3544457 test: 1869.2566321 best: 1869.2566321 (117) total: 2.05s remaining: 555ms
118: learn: 1872.9796715 test: 1866.7526342 best: 1866.7526342 (118) total: 2.07s remaining: 539ms
119: learn: 1871.7255515 test: 1865.3971928 best: 1865.3971928 (119) total: 2.08s remaining: 521ms
120: learn: 1870.5589166 test: 1864.2660931 best: 1864.2660931 (120) total: 2.1s remaining: 503ms
121: learn: 1869.3665369 test: 1862.9211854 best: 1862.9211854 (121) total: 2.12s remaining: 486ms
122: learn: 1867.5610444 test: 1861.2076934 best: 1861.2076934 (122) total: 2.13s remaining: 468ms
123: learn: 1866.3026153 test: 1860.1926601 best: 1860.1926601 (123) total: 2.15s remaining: 451ms
124: learn: 1864.9092230 test: 1859.0561279 best: 1859.0561279 (124) total: 2.17s remaining: 433ms
125: learn: 1863.9592036 test: 1858.1198056 best: 1858.1198056 (125) total: 2.19s remaining: 416ms
126: learn: 1863.0805627 test: 1857.3887420 best: 1857.3887420 (126) total: 2.21s remaining: 400ms
127: learn: 1861.0346888 test: 1856.0170302 best: 1856.0170302 (127) total: 2.23s remaining: 382ms
128: learn: 1859.3292234 test: 1854.6577457 best: 1854.6577457 (128) total: 2.24s remaining: 365ms
129: learn: 1858.2878707 test: 1853.6804335 best: 1853.6804335 (129) total: 2.26s remaining: 347ms
130: learn: 1857.3609029 test: 1852.8096370 best: 1852.8096370 (130) total: 2.27s remaining: 330ms
131: learn: 1856.1095086 test: 1851.7268338 best: 1851.7268338 (131) total: 2.29s remaining: 313ms
132: learn: 1855.0499374 test: 1850.7770118 best: 1850.7770118 (132) total: 2.31s remaining: 295ms
133: learn: 1854.1909277 test: 1849.9520431 best: 1849.9520431 (133) total: 2.32s remaining: 277ms
134: learn: 1853.4671635 test: 1849.4364189 best: 1849.4364189 (134) total: 2.34s remaining: 260ms
135: learn: 1852.4678647 test: 1848.5846217 best: 1848.5846217 (135) total: 2.35s remaining: 242ms
136: learn: 1851.4494992 test: 1847.8420676 best: 1847.8420676 (136) total: 2.37s remaining: 225ms

137: learn: 1849.3727174 test: 1845.4786386 best: 1845.4786386 (137) total: 2.38s remaining: 207ms
138: learn: 1848.3841018 test: 1844.7482106 best: 1844.7482106 (138) total: 2.4s remaining: 190ms
139: learn: 1847.6379634 test: 1844.1507309 best: 1844.1507309 (139) total: 2.42s remaining: 173ms
140: learn: 1846.7360420 test: 1843.6654930 best: 1843.6654930 (140) total: 2.44s remaining: 156ms
141: learn: 1845.4561872 test: 1842.0620096 best: 1842.0620096 (141) total: 2.46s remaining: 138ms
142: learn: 1844.0913137 test: 1840.5723970 best: 1840.5723970 (142) total: 2.48s remaining: 121ms
143: learn: 1842.4432381 test: 1839.6295837 best: 1839.6295837 (143) total: 2.49s remaining: 104ms
144: learn: 1841.7497281 test: 1838.9835381 best: 1838.9835381 (144) total: 2.51s remaining: 86.6ms
145: learn: 1840.1694567 test: 1837.3773009 best: 1837.3773009 (145) total: 2.53s remaining: 69.4ms
146: learn: 1839.2375532 test: 1836.3530834 best: 1836.3530834 (146) total: 2.55s remaining: 52.1ms
147: learn: 1838.5189951 test: 1835.8361309 best: 1835.8361309 (147) total: 2.57s remaining: 34.7ms
148: learn: 1837.7081014 test: 1835.1380842 best: 1835.1380842 (148) total: 2.59s remaining: 17.4ms
149: learn: 1836.6195616 test: 1834.0846947 best: 1834.0846947 (149) total: 2.6s remaining: 0us

bestTest = 1834.084695

bestIteration = 149

37: loss: 1834.0846947 best: 1827.9322239 (33) total: 1m 18s remaining: 1m 59s
0: learn: 6809.5911264 test: 6837.6947643 best: 6837.6947643 (0) total: 18.3ms remaining: 2.72s
1: learn: 6643.2483021 test: 6671.0025107 best: 6671.0025107 (1) total: 35.8ms remaining: 2.65s
2: learn: 6482.9571099 test: 6510.8458279 best: 6510.8458279 (2) total: 52.9ms remaining: 2.59s
3: learn: 6329.5676364 test: 6357.8057277 best: 6357.8057277 (3) total: 70ms remaining: 2.55s
4: learn: 6180.1422858 test: 6208.5797843 best: 6208.5797843 (4) total: 90.7ms remaining: 2.63s
5: learn: 6034.1445542 test: 6062.6329074 best: 6062.6329074 (5) total: 108ms remaining: 2.58s
6: learn: 5894.2979470 test: 5922.8820862 best: 5922.8820862 (6) total: 125ms remaining: 2.55s
7: learn: 5758.9397497 test: 5787.2619637 best: 5787.2619637 (7) total: 142ms remaining: 2.52s
8: learn: 5627.3568505 test: 5655.4649212 best: 5655.4649212 (8) total: 159ms remaining: 2.49s
9: learn: 5502.0029990 test: 5530.1229382 best: 5530.1229382 (9) total: 178ms remaining: 2.49s
10: learn: 5380.6040428 test: 5408.7003392 best: 5408.7003392 (10) total: 195ms remaining: 2.46s
11: learn: 5263.0798910 test: 5291.2078913 best: 5291.2078913 (11) total: 212ms remaining: 2.43s
12: learn: 5149.6075012 test: 5177.6264811 best: 5177.6264811 (12) total: 229ms remaining: 2.41s
13: learn: 5040.3371725 test: 5068.2801209 best: 5068.2801209 (13) total: 245ms remaining: 2.38s
14: learn: 4934.9091451 test: 4962.7948385 best: 4962.7948385 (14) total: 261ms remaining: 2.35s
15: learn: 4833.4876745 test: 4861.0281523 best: 4861.0281523 (15) total: 282ms remaining: 2.36s
16: learn: 4734.9057031 test: 4762.1674585 best: 4762.1674585 (16) total: 298ms remaining: 2.33s
17: learn: 4640.5173837 test: 4667.3794359 best: 4667.3794359 (17) total: 314ms remaining: 2.3s
18: learn: 4550.4524760 test: 4577.0114997 best: 4577.0114997 (18) total: 331ms remaining: 2.28s
19: learn: 4462.7703029 test: 4489.1840145 best: 4489.1840145 (19) total: 347ms remaining: 2.25s
20: learn: 4377.4072881 test: 4403.4490690 best: 4403.4490690 (20) total: 363ms remaining: 2.23s
21: learn: 4295.5051823 test: 4321.1947760 best: 4321.1947760 (21) total: 386ms remaining: 2.25s
22: learn: 4215.1357896 test: 4240.8818600 best: 4240.8818600 (22) total: 404ms remaining: 2.23s
23: learn: 4138.3172843 test: 4164.0233688 best: 4164.0233688 (23) total: 420ms remaining: 2.21s

23: learn: 4100.3172043 test: 4104.0233000 best: 4104.0233000 (23) total: 420ms remaining: 2.21s
24: learn: 4065.4955830 test: 4090.7948613 best: 4090.7948613 (24) total: 436ms remaining: 2.18s
25: learn: 3994.2436598 test: 4019.0032529 best: 4019.0032529 (25) total: 452ms remaining: 2.15s
26: learn: 3925.0219289 test: 3949.6571038 best: 3949.6571038 (26) total: 468ms remaining: 2.13s
27: learn: 3861.4917439 test: 3885.6761357 best: 3885.6761357 (27) total: 487ms remaining: 2.12s
28: learn: 3798.1577346 test: 3821.8960091 best: 3821.8960091 (28) total: 504ms remaining: 2.1s
29: learn: 3737.3400264 test: 3760.5300756 best: 3760.5300756 (29) total: 520ms remaining: 2.08s
30: learn: 3678.5478051 test: 3701.5374379 best: 3701.5374379 (30) total: 538ms remaining: 2.06s
31: learn: 3621.4254251 test: 3643.9467298 best: 3643.9467298 (31) total: 554ms remaining: 2.04s
32: learn: 3568.4081801 test: 3590.6392555 best: 3590.6392555 (32) total: 572ms remaining: 2.03s
33: learn: 3516.3936894 test: 3538.1452072 best: 3538.1452072 (33) total: 588ms remaining: 2.01s
34: learn: 3466.3280972 test: 3487.2395717 best: 3487.2395717 (34) total: 604ms remaining: 1.98s
35: learn: 3418.2881546 test: 3438.8360989 best: 3438.8360989 (35) total: 620ms remaining: 1.96s
36: learn: 3371.6774496 test: 3391.7254501 best: 3391.7254501 (36) total: 636ms remaining: 1.94s
37: learn: 3328.2846946 test: 3348.0442232 best: 3348.0442232 (37) total: 651ms remaining: 1.92s
38: learn: 3284.1667460 test: 3303.2872628 best: 3303.2872628 (38) total: 672ms remaining: 1.91s
39: learn: 3243.2716783 test: 3261.6157415 best: 3261.6157415 (39) total: 687ms remaining: 1.89s
40: learn: 3204.3368976 test: 3222.4220943 best: 3222.4220943 (40) total: 704ms remaining: 1.87s
41: learn: 3165.6694587 test: 3183.1942089 best: 3183.1942089 (41) total: 719ms remaining: 1.85s
42: learn: 3130.8422755 test: 3147.9289814 best: 3147.9289814 (42) total: 736ms remaining: 1.83s
43: learn: 3096.8496609 test: 3113.4858677 best: 3113.4858677 (43) total: 752ms remaining: 1.81s
44: learn: 3063.9869014 test: 3080.0064556 best: 3080.0064556 (44) total: 771ms remaining: 1.8s
45: learn: 3031.7171124 test: 3047.1573483 best: 3047.1573483 (45) total: 788ms remaining: 1.78s
46: learn: 3001.6038949 test: 3016.7315323 best: 3016.7315323 (46) total: 804ms remaining: 1.76s
47: learn: 2971.7299885 test: 2986.1009786 best: 2986.1009786 (47) total: 820ms remaining: 1.74s
48: learn: 2943.2426778 test: 2957.2658960 best: 2957.2658960 (48) total: 837ms remaining: 1.72s
49: learn: 2915.5903981 test: 2929.4705634 best: 2929.4705634 (49) total: 851ms remaining: 1.7s
50: learn: 2889.9838322 test: 2903.6180317 best: 2903.6180317 (50) total: 871ms remaining: 1.69s
51: learn: 2864.1427938 test: 2877.1273749 best: 2877.1273749 (51) total: 887ms remaining: 1.67s
52: learn: 2839.4766490 test: 2851.9018427 best: 2851.9018427 (52) total: 902ms remaining: 1.65s
53: learn: 2816.9597918 test: 2829.0819467 best: 2829.0819467 (53) total: 918ms remaining: 1.63s
54: learn: 2794.5688200 test: 2806.1824930 best: 2806.1824930 (54) total: 934ms remaining: 1.61s
55: learn: 2773.6082186 test: 2784.5801988 best: 2784.5801988 (55) total: 951ms remaining: 1.59s
56: learn: 2752.9588334 test: 2763.4082338 best: 2763.4082338 (56) total: 975ms remaining: 1.59s
57: learn: 2733.1213575 test: 2743.3987830 best: 2743.3987830 (57) total: 993ms remaining: 1.57s
58: learn: 2714.4687581 test: 2724.3235903 best: 2724.3235903 (58) total: 1.01s remaining: 1.56s
59: learn: 2695.1937965 test: 2704.4979610 best: 2704.4979610 (59) total: 1.03s remaining: 1.54s
60: learn: 2677.2789568 test: 2686.1038231 best: 2686.1038231 (60) total: 1.04s remaining: 1.52s
61: learn: 2659.9206918 test: 2668.3723625 best: 2668.3723625 (61) total: 1.06s remaining: 1.5s
62: learn: 2642.1821263 test: 2650.2115498 best: 2650.2115498 (62) total: 1.08s remaining: 1.49s
63: learn: 2626.6260223 test: 2634.4140552 best: 2634.4140552 (63) total: 1.09s remaining: 1.47s
64: learn: 2610.8796566 test: 2618.5300793 best: 2618.5300793 (64) total: 1.11s remaining: 1.45s

65: learn: 2596.4773755 test: 2603.8878615 best: 2603.8878615 (65) total: 1.13s remaining: 1.43s
66: learn: 2581.6977090 test: 2588.6888733 best: 2588.6888733 (66) total: 1.14s remaining: 1.41s
67: learn: 2568.4587686 test: 2574.8573656 best: 2574.8573656 (67) total: 1.16s remaining: 1.39s
68: learn: 2555.2912334 test: 2561.4670750 best: 2561.4670750 (68) total: 1.17s remaining: 1.38s
69: learn: 2540.9954074 test: 2546.5734171 best: 2546.5734171 (69) total: 1.19s remaining: 1.36s
70: learn: 2528.3909193 test: 2533.4840388 best: 2533.4840388 (70) total: 1.2s remaining: 1.34s
71: learn: 2516.0482404 test: 2520.7480852 best: 2520.7480852 (71) total: 1.22s remaining: 1.32s
72: learn: 2504.3848175 test: 2508.9570220 best: 2508.9570220 (72) total: 1.23s remaining: 1.3s
73: learn: 2492.2622642 test: 2496.2796934 best: 2496.2796934 (73) total: 1.25s remaining: 1.28s
74: learn: 2480.6517978 test: 2484.2996876 best: 2484.2996876 (74) total: 1.27s remaining: 1.27s
75: learn: 2469.7501508 test: 2472.9051033 best: 2472.9051033 (75) total: 1.28s remaining: 1.25s
76: learn: 2459.5847491 test: 2462.5127861 best: 2462.5127861 (76) total: 1.29s remaining: 1.23s
77: learn: 2449.8903457 test: 2452.5727174 best: 2452.5727174 (77) total: 1.31s remaining: 1.21s
78: learn: 2440.3247457 test: 2442.8892102 best: 2442.8892102 (78) total: 1.32s remaining: 1.19s
79: learn: 2430.0826227 test: 2432.2608663 best: 2432.2608663 (79) total: 1.34s remaining: 1.17s
80: learn: 2420.1285507 test: 2421.9038659 best: 2421.9038659 (80) total: 1.36s remaining: 1.16s
81: learn: 2410.7557733 test: 2412.1708712 best: 2412.1708712 (81) total: 1.38s remaining: 1.14s
82: learn: 2402.3174793 test: 2403.4921204 best: 2403.4921204 (82) total: 1.39s remaining: 1.12s
83: learn: 2393.9042826 test: 2394.6388113 best: 2394.6388113 (83) total: 1.41s remaining: 1.1s
84: learn: 2385.4661683 test: 2385.7445438 best: 2385.7445438 (84) total: 1.42s remaining: 1.09s
85: learn: 2377.8657073 test: 2378.0345490 best: 2378.0345490 (85) total: 1.44s remaining: 1.07s
86: learn: 2370.1443081 test: 2370.1388895 best: 2370.1388895 (86) total: 1.46s remaining: 1.05s
87: learn: 2362.9954095 test: 2362.3921418 best: 2362.3921418 (87) total: 1.48s remaining: 1.04s
88: learn: 2354.6622677 test: 2353.7691583 best: 2353.7691583 (88) total: 1.49s remaining: 1.02s
89: learn: 2348.0038395 test: 2346.9618186 best: 2346.9618186 (89) total: 1.51s remaining: 1.01s
90: learn: 2341.0710647 test: 2339.6935914 best: 2339.6935914 (90) total: 1.52s remaining: 988ms
91: learn: 2334.3067560 test: 2332.4437856 best: 2332.4437856 (91) total: 1.54s remaining: 971ms
92: learn: 2328.0298665 test: 2325.9021744 best: 2325.9021744 (92) total: 1.56s remaining: 954ms
93: learn: 2321.1446439 test: 2318.8620438 best: 2318.8620438 (93) total: 1.57s remaining: 939ms
94: learn: 2315.5688826 test: 2313.2270771 best: 2313.2270771 (94) total: 1.59s remaining: 922ms
95: learn: 2309.6380361 test: 2307.1114110 best: 2307.1114110 (95) total: 1.61s remaining: 904ms
96: learn: 2304.0329085 test: 2301.3217597 best: 2301.3217597 (96) total: 1.62s remaining: 887ms
97: learn: 2298.5109434 test: 2295.5226072 best: 2295.5226072 (97) total: 1.64s remaining: 870ms
98: learn: 2293.4550520 test: 2290.2682897 best: 2290.2682897 (98) total: 1.65s remaining: 853ms
99: learn: 2287.5656071 test: 2284.2654606 best: 2284.2654606 (99) total: 1.67s remaining: 837ms
100: learn: 2282.4637904 test: 2279.0739446 best: 2279.0739446 (100) total: 1.69s remaining: 820ms
101: learn: 2277.3901805 test: 2273.9372012 best: 2273.9372012 (101) total: 1.71s remaining: 803ms
102: learn: 2272.1356355 test: 2268.2489863 best: 2268.2489863 (102) total: 1.72s remaining: 785ms
103: learn: 2266.9218688 test: 2263.0038302 best: 2263.0038302 (103) total: 1.74s remaining: 768ms
104: learn: 2261.8402646 test: 2257.8608323 best: 2257.8608323 (104) total: 1.75s remaining: 750ms
105: learn: 2257.5631140 test: 2253.5723494 best: 2253.5723494 (105) total: 1.77s remaining: 734ms

106: learn: 2252.3591303 test: 2247.9575956 best: 2247.9575956 (106) total: 1.78s remaining: 717ms
107: learn: 2247.7649287 test: 2243.2640533 best: 2243.2640533 (107) total: 1.8s remaining: 700ms
108: learn: 2243.1061874 test: 2238.3624885 best: 2238.3624885 (108) total: 1.82s remaining: 683ms
109: learn: 2239.0321977 test: 2234.1941730 best: 2234.1941730 (109) total: 1.83s remaining: 666ms
110: learn: 2234.6904985 test: 2229.4600688 best: 2229.4600688 (110) total: 1.85s remaining: 649ms
111: learn: 2229.9552026 test: 2224.4449751 best: 2224.4449751 (111) total: 1.87s remaining: 634ms
112: learn: 2225.7105395 test: 2220.1865150 best: 2220.1865150 (112) total: 1.88s remaining: 617ms
113: learn: 2221.9789632 test: 2216.4075354 best: 2216.4075354 (113) total: 1.9s remaining: 600ms
114: learn: 2218.3819105 test: 2212.7840898 best: 2212.7840898 (114) total: 1.91s remaining: 583ms
115: learn: 2214.5743940 test: 2208.8518000 best: 2208.8518000 (115) total: 1.93s remaining: 566ms
116: learn: 2211.0226225 test: 2205.2990731 best: 2205.2990731 (116) total: 1.95s remaining: 549ms
117: learn: 2207.4576685 test: 2201.7298305 best: 2201.7298305 (117) total: 1.96s remaining: 532ms
118: learn: 2204.0748405 test: 2198.2048721 best: 2198.2048721 (118) total: 1.98s remaining: 515ms
119: learn: 2200.3353638 test: 2194.2663727 best: 2194.2663727 (119) total: 1.99s remaining: 498ms
120: learn: 2197.1770716 test: 2191.1159637 best: 2191.1159637 (120) total: 2.01s remaining: 481ms
121: learn: 2193.4032561 test: 2187.0160857 best: 2187.0160857 (121) total: 2.02s remaining: 465ms
122: learn: 2189.9286799 test: 2183.3020319 best: 2183.3020319 (122) total: 2.04s remaining: 448ms
123: learn: 2186.7851557 test: 2180.1746692 best: 2180.1746692 (123) total: 2.06s remaining: 432ms
124: learn: 2184.0018501 test: 2177.4267122 best: 2177.4267122 (124) total: 2.07s remaining: 415ms
125: learn: 2180.5490197 test: 2173.7332507 best: 2173.7332507 (125) total: 2.09s remaining: 398ms
126: learn: 2177.8462848 test: 2170.9167965 best: 2170.9167965 (126) total: 2.1s remaining: 381ms
127: learn: 2174.6909342 test: 2167.7984716 best: 2167.7984716 (127) total: 2.12s remaining: 365ms
128: learn: 2171.9466320 test: 2164.8916888 best: 2164.8916888 (128) total: 2.14s remaining: 348ms
129: learn: 2168.8905129 test: 2161.7803827 best: 2161.7803827 (129) total: 2.15s remaining: 331ms
130: learn: 2165.7269725 test: 2158.2597111 best: 2158.2597111 (130) total: 2.17s remaining: 315ms
131: learn: 2161.7339884 test: 2154.0345600 best: 2154.0345600 (131) total: 2.18s remaining: 298ms
132: learn: 2158.7715256 test: 2151.0406849 best: 2151.0406849 (132) total: 2.2s remaining: 281ms
133: learn: 2156.2106195 test: 2148.5113852 best: 2148.5113852 (133) total: 2.21s remaining: 264ms
134: learn: 2153.3224461 test: 2145.4394091 best: 2145.4394091 (134) total: 2.23s remaining: 248ms
135: learn: 2150.2933616 test: 2142.3801738 best: 2142.3801738 (135) total: 2.25s remaining: 231ms
136: learn: 2147.3340427 test: 2139.3568694 best: 2139.3568694 (136) total: 2.26s remaining: 215ms
137: learn: 2145.1520540 test: 2137.2354202 best: 2137.2354202 (137) total: 2.27s remaining: 198ms
138: learn: 2142.3027576 test: 2134.2652107 best: 2134.2652107 (138) total: 2.29s remaining: 181ms
139: learn: 2139.7780998 test: 2131.6827766 best: 2131.6827766 (139) total: 2.31s remaining: 165ms
140: learn: 2137.2858777 test: 2129.1056324 best: 2129.1056324 (140) total: 2.32s remaining: 148ms
141: learn: 2135.2286236 test: 2127.0125902 best: 2127.0125902 (141) total: 2.33s remaining: 132ms
142: learn: 2132.7056262 test: 2124.4402479 best: 2124.4402479 (142) total: 2.36s remaining: 115ms
143: learn: 2129.3957225 test: 2121.0239757 best: 2121.0239757 (143) total: 2.37s remaining: 98.8ms
144: learn: 2127.1396446 test: 2118.7149203 best: 2118.7149203 (144) total: 2.38s remaining: 82.3ms
145: learn: 2124.6812391 test: 2116.1663853 best: 2116.1663853 (145) total: 2.4s remaining: 65.8ms
146: learn: 2122.5011356 test: 2114.1057476 best: 2114.1057476 (146) total: 2.42s remaining: 49.3ms

147: learn: 2120.2620422 test: 2111.8252328 best: 2111.8252328 (147) total: 2.43s remaining: 32.9ms

148: learn: 2117.8764429 test: 2109.4558968 best: 2109.4558968 (148) total: 2.45s remaining: 16.4ms

149: learn: 2116.0108402 test: 2107.5459169 best: 2107.5459169 (149) total: 2.46s remaining: 0us

bestTest = 2107.545917

bestIteration = 149

38: loss: 2107.5459169 best: 1827.9322239 (33) total: 1m 20s remaining: 1m 58s

0: learn: 6410.8563575 test: 6438.9654331 best: 6438.9654331 (0) total: 16.3ms remaining: 2.43s

1: learn: 5903.2131031 test: 5930.0088410 best: 5930.0088410 (1) total: 32.8ms remaining: 2.43s

2: learn: 5455.2944827 test: 5482.3219094 best: 5482.3219094 (2) total: 53.6ms remaining: 2.62s

3: learn: 5063.2561028 test: 5090.7878631 best: 5090.7878631 (3) total: 70.1ms remaining: 2.56s

4: learn: 4708.2043813 test: 4735.1782050 best: 4735.1782050 (4) total: 88.2ms remaining: 2.56s

5: learn: 4396.9114314 test: 4423.8356541 best: 4423.8356541 (5) total: 105ms remaining: 2.51s

6: learn: 4126.8924396 test: 4152.9342398 best: 4152.9342398 (6) total: 121ms remaining: 2.48s

7: learn: 3885.8066488 test: 3910.8343585 best: 3910.8343585 (7) total: 138ms remaining: 2.45s

8: learn: 3674.0046949 test: 3697.1686075 best: 3697.1686075 (8) total: 154ms remaining: 2.42s

9: learn: 3489.5004507 test: 3511.2678944 best: 3511.2678944 (9) total: 170ms remaining: 2.38s

10: learn: 3330.9076031 test: 3351.7450346 best: 3351.7450346 (10) total: 188ms remaining: 2.38s

11: learn: 3189.9682209 test: 3209.7451065 best: 3209.7451065 (11) total: 204ms remaining: 2.34s

12: learn: 3073.0928377 test: 3091.0349980 best: 3091.0349980 (12) total: 219ms remaining: 2.31s

13: learn: 2962.5480819 test: 2978.9149769 best: 2978.9149769 (13) total: 235ms remaining: 2.28s

14: learn: 2871.8623620 test: 2886.5874795 best: 2886.5874795 (14) total: 251ms remaining: 2.26s

15: learn: 2792.7588890 test: 2805.0597867 best: 2805.0597867 (15) total: 268ms remaining: 2.25s

16: learn: 2724.3178669 test: 2735.7174250 best: 2735.7174250 (16) total: 288ms remaining: 2.25s

17: learn: 2663.9725716 test: 2673.3339101 best: 2673.3339101 (17) total: 304ms remaining: 2.23s

18: learn: 2609.9803939 test: 2618.6599891 best: 2618.6599891 (18) total: 319ms remaining: 2.2s

19: learn: 2563.6073493 test: 2571.5004126 best: 2571.5004126 (19) total: 335ms remaining: 2.17s

20: learn: 2516.8527641 test: 2523.1579557 best: 2523.1579557 (20) total: 349ms remaining: 2.15s

21: learn: 2477.4697981 test: 2482.3870286 best: 2482.3870286 (21) total: 364ms remaining: 2.12s

22: learn: 2441.3147269 test: 2445.1726733 best: 2445.1726733 (22) total: 382ms remaining: 2.11s

23: learn: 2407.9832093 test: 2410.5104652 best: 2410.5104652 (23) total: 398ms remaining: 2.09s

24: learn: 2379.4113671 test: 2380.8693763 best: 2380.8693763 (24) total: 413ms remaining: 2.07s

25: learn: 2355.5790391 test: 2355.7674494 best: 2355.7674494 (25) total: 428ms remaining: 2.04s

26: learn: 2330.7857603 test: 2330.4142020 best: 2330.4142020 (26) total: 444ms remaining: 2.02s

27: learn: 2309.8362764 test: 2309.3350725 best: 2309.3350725 (27) total: 462ms remaining: 2.01s

28: learn: 2290.8002853 test: 2289.9803061 best: 2289.9803061 (28) total: 484ms remaining: 2.02s

29: learn: 2272.2162150 test: 2270.1661252 best: 2270.1661252 (29) total: 498ms remaining: 1.99s

30: learn: 2256.1809039 test: 2253.4531101 best: 2253.4531101 (30) total: 514ms remaining: 1.97s

31: learn: 2242.2960854 test: 2239.0518254 best: 2239.0518254 (31) total: 530ms remaining: 1.95s

32: learn: 2227.2989049 test: 2223.6509977 best: 2223.6509977 (32) total: 546ms remaining: 1.94s

33: learn: 2214.0723893 test: 2209.6572095 best: 2209.6572095 (33) total: 563ms remaining: 1.92s

33: learn: 2211.6728889 test: 2195.3778727 best: 2195.3778727 (33) total: 580ms remaining: 1.91s
34: learn: 2201.0360809 test: 2195.3778727 best: 2195.3778727 (34) total: 580ms remaining: 1.91s
35: learn: 2189.1469563 test: 2183.2895826 best: 2183.2895826 (35) total: 595ms remaining: 1.89s
36: learn: 2178.4932055 test: 2172.6689740 best: 2172.6689740 (36) total: 612ms remaining: 1.87s
37: learn: 2168.6160872 test: 2162.7735536 best: 2162.7735536 (37) total: 627ms remaining: 1.85s
38: learn: 2159.3351194 test: 2153.1293883 best: 2153.1293883 (38) total: 642ms remaining: 1.83s
39: learn: 2152.1185059 test: 2145.9140317 best: 2145.9140317 (39) total: 658ms remaining: 1.81s
40: learn: 2142.7534589 test: 2135.5190701 best: 2135.5190701 (40) total: 681ms remaining: 1.81s
41: learn: 2134.2066501 test: 2126.9061039 best: 2126.9061039 (41) total: 697ms remaining: 1.79s
42: learn: 2125.1093732 test: 2117.7965745 best: 2117.7965745 (42) total: 713ms remaining: 1.77s
43: learn: 2117.3190910 test: 2110.0573593 best: 2110.0573593 (43) total: 728ms remaining: 1.75s
44: learn: 2109.1933137 test: 2101.9995505 best: 2101.9995505 (44) total: 743ms remaining: 1.73s
45: learn: 2103.3141567 test: 2096.3142349 best: 2096.3142349 (45) total: 763ms remaining: 1.73s
46: learn: 2095.6002071 test: 2088.7080793 best: 2088.7080793 (46) total: 786ms remaining: 1.72s
47: learn: 2090.2258447 test: 2082.8044096 best: 2082.8044096 (47) total: 804ms remaining: 1.71s
48: learn: 2082.6997059 test: 2075.3699804 best: 2075.3699804 (48) total: 822ms remaining: 1.69s
49: learn: 2077.3285753 test: 2069.7505674 best: 2069.7505674 (49) total: 837ms remaining: 1.67s
50: learn: 2070.3239630 test: 2062.3577634 best: 2062.3577634 (50) total: 852ms remaining: 1.65s
51: learn: 2063.7094398 test: 2055.5857356 best: 2055.5857356 (51) total: 872ms remaining: 1.64s
52: learn: 2055.0336094 test: 2046.3709925 best: 2046.3709925 (52) total: 889ms remaining: 1.63s
53: learn: 2049.8194997 test: 2041.3140751 best: 2041.3140751 (53) total: 904ms remaining: 1.61s
54: learn: 2044.0805026 test: 2035.6882902 best: 2035.6882902 (54) total: 920ms remaining: 1.59s
55: learn: 2037.0147065 test: 2028.6936133 best: 2028.6936133 (55) total: 936ms remaining: 1.57s
56: learn: 2033.0685160 test: 2024.6344489 best: 2024.6344489 (56) total: 950ms remaining: 1.55s
57: learn: 2027.9440339 test: 2019.3483677 best: 2019.3483677 (57) total: 971ms remaining: 1.54s
58: learn: 2024.0005575 test: 2015.8194779 best: 2015.8194779 (58) total: 985ms remaining: 1.52s
59: learn: 2020.4413416 test: 2012.7127990 best: 2012.7127990 (59) total: 998ms remaining: 1.5s
60: learn: 2015.4166541 test: 2007.3946204 best: 2007.3946204 (60) total: 1.01s remaining: 1.48s
61: learn: 2008.7283551 test: 2000.2649357 best: 2000.2649357 (61) total: 1.03s remaining: 1.46s
62: learn: 2005.4946874 test: 1996.6852139 best: 1996.6852139 (62) total: 1.05s remaining: 1.45s
63: learn: 2000.8927448 test: 1992.4709447 best: 1992.4709447 (63) total: 1.06s remaining: 1.43s
64: learn: 1997.6890538 test: 1989.9376270 best: 1989.9376270 (64) total: 1.08s remaining: 1.41s
65: learn: 1994.9043786 test: 1987.2822193 best: 1987.2822193 (65) total: 1.09s remaining: 1.39s
66: learn: 1990.1166664 test: 1982.5859875 best: 1982.5859875 (66) total: 1.11s remaining: 1.37s
67: learn: 1985.3943712 test: 1977.6281413 best: 1977.6281413 (67) total: 1.12s remaining: 1.35s
68: learn: 1981.3596273 test: 1973.5790224 best: 1973.5790224 (68) total: 1.14s remaining: 1.34s
69: learn: 1978.1899636 test: 1970.4107169 best: 1970.4107169 (69) total: 1.15s remaining: 1.32s
70: learn: 1974.9538359 test: 1967.2417854 best: 1967.2417854 (70) total: 1.17s remaining: 1.3s
71: learn: 1972.3509579 test: 1964.9209533 best: 1964.9209533 (71) total: 1.19s remaining: 1.28s
72: learn: 1969.8338184 test: 1962.3971175 best: 1962.3971175 (72) total: 1.2s remaining: 1.27s
73: learn: 1966.5136708 test: 1959.0656134 best: 1959.0656134 (73) total: 1.22s remaining: 1.25s
74: learn: 1963.3422020 test: 1955.7896319 best: 1955.7896319 (74) total: 1.23s remaining: 1.23s

75: learn: 1961.4036799 test: 1953.9555577 best: 1953.9555577 (75) total: 1.25s remaining: 1.22s
76: learn: 1958.0209155 test: 1950.5532077 best: 1950.5532077 (76) total: 1.27s remaining: 1.2s
77: learn: 1955.7053619 test: 1947.9802817 best: 1947.9802817 (77) total: 1.28s remaining: 1.18s
78: learn: 1952.3220009 test: 1944.4908028 best: 1944.4908028 (78) total: 1.3s remaining: 1.17s
79: learn: 1948.7429131 test: 1940.9109921 best: 1940.9109921 (79) total: 1.31s remaining: 1.15s
80: learn: 1946.2545293 test: 1938.5374947 best: 1938.5374947 (80) total: 1.33s remaining: 1.13s
81: learn: 1943.9573775 test: 1936.3659301 best: 1936.3659301 (81) total: 1.35s remaining: 1.12s
82: learn: 1941.0623325 test: 1933.5441411 best: 1933.5441411 (82) total: 1.36s remaining: 1.1s
83: learn: 1939.1062797 test: 1931.4513584 best: 1931.4513584 (83) total: 1.38s remaining: 1.08s
84: learn: 1935.9810606 test: 1928.1626750 best: 1928.1626750 (84) total: 1.39s remaining: 1.07s
85: learn: 1933.7918251 test: 1926.1513009 best: 1926.1513009 (85) total: 1.41s remaining: 1.05s
86: learn: 1930.3745545 test: 1922.7115759 best: 1922.7115759 (86) total: 1.42s remaining: 1.03s
87: learn: 1927.4783038 test: 1920.1541361 best: 1920.1541361 (87) total: 1.44s remaining: 1.01s
88: learn: 1925.6474861 test: 1918.3832964 best: 1918.3832964 (88) total: 1.46s remaining: 998ms
89: learn: 1923.1310904 test: 1915.8717224 best: 1915.8717224 (89) total: 1.48s remaining: 984ms
90: learn: 1921.6201360 test: 1914.3601751 best: 1914.3601751 (90) total: 1.49s remaining: 967ms
91: learn: 1919.8134748 test: 1912.7972947 best: 1912.7972947 (91) total: 1.51s remaining: 950ms
92: learn: 1918.5103427 test: 1911.8318675 best: 1911.8318675 (92) total: 1.52s remaining: 933ms
93: learn: 1916.1805795 test: 1909.1761589 best: 1909.1761589 (93) total: 1.54s remaining: 917ms
94: learn: 1914.6086252 test: 1907.7159367 best: 1907.7159367 (94) total: 1.55s remaining: 900ms
95: learn: 1911.7369775 test: 1905.0686837 best: 1905.0686837 (95) total: 1.58s remaining: 887ms
96: learn: 1910.2336851 test: 1903.6638416 best: 1903.6638416 (96) total: 1.59s remaining: 871ms
97: learn: 1908.9637720 test: 1902.3378182 best: 1902.3378182 (97) total: 1.61s remaining: 853ms
98: learn: 1907.4874912 test: 1900.9777661 best: 1900.9777661 (98) total: 1.62s remaining: 836ms
99: learn: 1904.1972161 test: 1897.5020851 best: 1897.5020851 (99) total: 1.64s remaining: 820ms
100: learn: 1901.4373553 test: 1894.6341821 best: 1894.6341821 (100) total: 1.66s remaining: 804ms
101: learn: 1899.7123698 test: 1893.0155083 best: 1893.0155083 (101) total: 1.67s remaining: 788ms
102: learn: 1897.3639736 test: 1890.7060661 best: 1890.7060661 (102) total: 1.69s remaining: 771ms
103: learn: 1895.6231919 test: 1889.0969989 best: 1889.0969989 (103) total: 1.71s remaining: 754ms
104: learn: 1894.4548853 test: 1887.6310679 best: 1887.6310679 (104) total: 1.72s remaining: 737ms
105: learn: 1893.1700372 test: 1886.5091243 best: 1886.5091243 (105) total: 1.74s remaining: 721ms
106: learn: 1892.1310435 test: 1885.7393529 best: 1885.7393529 (106) total: 1.75s remaining: 703ms
107: learn: 1889.9105754 test: 1883.4471420 best: 1883.4471420 (107) total: 1.76s remaining: 686ms
108: learn: 1887.9615346 test: 1881.3101608 best: 1881.3101608 (108) total: 1.78s remaining: 670ms
109: learn: 1886.3811801 test: 1879.6404236 best: 1879.6404236 (109) total: 1.79s remaining: 653ms
110: learn: 1884.9957324 test: 1878.6089053 best: 1878.6089053 (110) total: 1.81s remaining: 636ms
111: learn: 1882.9341337 test: 1876.4570998 best: 1876.4570998 (111) total: 1.82s remaining: 619ms
112: learn: 1881.6684088 test: 1875.1981019 best: 1875.1981019 (112) total: 1.84s remaining: 603ms
113: learn: 1878.8711843 test: 1872.2751828 best: 1872.2751828 (113) total: 1.86s remaining: 588ms
114: learn: 1877.5559849 test: 1870.9932097 best: 1870.9932097 (114) total: 1.88s remaining: 571ms
115: learn: 1876.2433321 test: 1869.5661996 best: 1869.5661996 (115) total: 1.89s remaining: 554ms

116: learn: 1875.3355107 test: 1868.7129079 best: 1868.7129079 (116) total: 1.91s remaining: 537ms
117: learn: 1874.3053608 test: 1867.6819492 best: 1867.6819492 (117) total: 1.92s remaining: 520ms
118: learn: 1872.3938062 test: 1865.7406993 best: 1865.7406993 (118) total: 1.94s remaining: 504ms
119: learn: 1871.4697099 test: 1864.9768012 best: 1864.9768012 (119) total: 1.95s remaining: 487ms
120: learn: 1869.4946183 test: 1862.9397113 best: 1862.9397113 (120) total: 1.97s remaining: 471ms
121: learn: 1868.3010086 test: 1861.8901821 best: 1861.8901821 (121) total: 1.98s remaining: 455ms
122: learn: 1867.4202031 test: 1860.9535106 best: 1860.9535106 (122) total: 2s remaining: 438ms
123: learn: 1865.2128028 test: 1858.7002226 best: 1858.7002226 (123) total: 2.01s remaining: 422ms
124: learn: 1863.9018068 test: 1857.5510171 best: 1857.5510171 (124) total: 2.03s remaining: 405ms
125: learn: 1862.8477779 test: 1856.7343329 best: 1856.7343329 (125) total: 2.04s remaining: 389ms
126: learn: 1862.0725013 test: 1855.9654816 best: 1855.9654816 (126) total: 2.06s remaining: 373ms
127: learn: 1860.4700162 test: 1854.5127143 best: 1854.5127143 (127) total: 2.08s remaining: 357ms
128: learn: 1859.6763252 test: 1853.7390796 best: 1853.7390796 (128) total: 2.09s remaining: 340ms
129: learn: 1858.6762822 test: 1852.9994363 best: 1852.9994363 (129) total: 2.1s remaining: 324ms
130: learn: 1856.7547018 test: 1851.0286298 best: 1851.0286298 (130) total: 2.12s remaining: 308ms
131: learn: 1855.6202058 test: 1850.2053605 best: 1850.2053605 (131) total: 2.14s remaining: 291ms
132: learn: 1854.6695228 test: 1849.7471597 best: 1849.7471597 (132) total: 2.15s remaining: 275ms
133: learn: 1853.2583999 test: 1848.4215426 best: 1848.4215426 (133) total: 2.17s remaining: 259ms
134: learn: 1852.1412056 test: 1847.4065472 best: 1847.4065472 (134) total: 2.19s remaining: 243ms
135: learn: 1851.0579392 test: 1846.4430336 best: 1846.4430336 (135) total: 2.2s remaining: 226ms
136: learn: 1849.8287946 test: 1845.3847175 best: 1845.3847175 (136) total: 2.21s remaining: 210ms
137: learn: 1848.7405297 test: 1844.3515864 best: 1844.3515864 (137) total: 2.23s remaining: 194ms
138: learn: 1847.0719435 test: 1842.6932570 best: 1842.6932570 (138) total: 2.24s remaining: 177ms
139: learn: 1845.1986414 test: 1841.0875279 best: 1841.0875279 (139) total: 2.26s remaining: 162ms
140: learn: 1843.9823768 test: 1839.8061342 best: 1839.8061342 (140) total: 2.28s remaining: 145ms
141: learn: 1841.8427799 test: 1837.8258639 best: 1837.8258639 (141) total: 2.29s remaining: 129ms
142: learn: 1840.1942906 test: 1836.0850111 best: 1836.0850111 (142) total: 2.31s remaining: 113ms
143: learn: 1839.3384511 test: 1835.3046761 best: 1835.3046761 (143) total: 2.32s remaining: 96.7ms
144: learn: 1838.3993794 test: 1834.3509060 best: 1834.3509060 (144) total: 2.34s remaining: 80.6ms
145: learn: 1837.3494441 test: 1833.3045483 best: 1833.3045483 (145) total: 2.35s remaining: 64.4ms
146: learn: 1836.0128793 test: 1831.8804575 best: 1831.8804575 (146) total: 2.37s remaining: 48.3ms
147: learn: 1835.1571145 test: 1830.9724075 best: 1830.9724075 (147) total: 2.38s remaining: 32.2ms
148: learn: 1834.5319601 test: 1830.2906471 best: 1830.2906471 (148) total: 2.4s remaining: 16.1ms
149: learn: 1833.1244951 test: 1828.8603424 best: 1828.8603424 (149) total: 2.41s remaining: 0us

bestTest = 1828.860342

bestIteration = 149

39: loss: 1828.8603424 best: 1827.9322239 (33) total: 1m 23s remaining: 1m 56s

0: learn: 6809.5436209 test: 6837.6474412 best: 6837.6474412 (0) total: 16.8ms remaining: 3.33s

1: learn: 6643.1117314 test: 6670.8624882 best: 6670.8624882 (1) total: 39.3ms remaining: 3.89s

2: learn: 6482.7512816 test: 6510.6368635 best: 6510.6368635 (2) total: 59.7ms remaining: 3.92s
3: learn: 6329.2980269 test: 6357.5339551 best: 6357.5339551 (3) total: 75.6ms remaining: 3.7s
4: learn: 6179.7964879 test: 6208.2334528 best: 6208.2334528 (4) total: 92ms remaining: 3.59s
5: learn: 6033.7609502 test: 6062.2487252 best: 6062.2487252 (5) total: 109ms remaining: 3.51s
6: learn: 5893.8480464 test: 5922.4307237 best: 5922.4307237 (6) total: 125ms remaining: 3.46s
7: learn: 5758.4582888 test: 5786.7789202 best: 5786.7789202 (7) total: 145ms remaining: 3.47s
8: learn: 5626.8441414 test: 5654.9504927 best: 5654.9504927 (8) total: 161ms remaining: 3.42s
9: learn: 5501.4571187 test: 5529.5750570 best: 5529.5750570 (9) total: 178ms remaining: 3.37s
10: learn: 5380.0395024 test: 5408.1335869 best: 5408.1335869 (10) total: 194ms remaining: 3.33s
11: learn: 5262.5060481 test: 5290.6318421 best: 5290.6318421 (11) total: 211ms remaining: 3.3s
12: learn: 5149.0214802 test: 5177.0380816 best: 5177.0380816 (12) total: 230ms remaining: 3.31s
13: learn: 5039.7075252 test: 5067.6470681 best: 5067.6470681 (13) total: 247ms remaining: 3.29s
14: learn: 4934.2497318 test: 4962.1313163 best: 4962.1313163 (14) total: 263ms remaining: 3.25s
15: learn: 4832.7964082 test: 4860.3312628 best: 4860.3312628 (15) total: 281ms remaining: 3.23s
16: learn: 4734.2051334 test: 4761.4610309 best: 4761.4610309 (16) total: 298ms remaining: 3.2s
17: learn: 4639.7943333 test: 4666.6503436 best: 4666.6503436 (17) total: 315ms remaining: 3.19s
18: learn: 4549.7324254 test: 4576.2852243 best: 4576.2852243 (18) total: 339ms remaining: 3.23s
19: learn: 4462.0361731 test: 4488.4438064 best: 4488.4438064 (19) total: 360ms remaining: 3.24s
20: learn: 4376.6600626 test: 4402.6956412 best: 4402.6956412 (20) total: 377ms remaining: 3.21s
21: learn: 4294.7513536 test: 4320.4346537 best: 4320.4346537 (21) total: 394ms remaining: 3.19s
22: learn: 4214.3854330 test: 4240.1250143 best: 4240.1250143 (22) total: 411ms remaining: 3.16s
23: learn: 4137.5689638 test: 4163.2685760 best: 4163.2685760 (23) total: 429ms remaining: 3.15s
24: learn: 4064.7251716 test: 4090.0152853 best: 4090.0152853 (24) total: 447ms remaining: 3.13s
25: learn: 3993.4596386 test: 4018.2096185 best: 4018.2096185 (25) total: 464ms remaining: 3.11s
26: learn: 3924.2440920 test: 3948.8695344 best: 3948.8695344 (26) total: 481ms remaining: 3.08s
27: learn: 3860.7055233 test: 3884.8791066 best: 3884.8791066 (27) total: 498ms remaining: 3.06s
28: learn: 3797.3621877 test: 3821.0887194 best: 3821.0887194 (28) total: 516ms remaining: 3.04s
29: learn: 3736.5468942 test: 3759.7242522 best: 3759.7242522 (29) total: 536ms remaining: 3.04s
30: learn: 3677.7658897 test: 3700.7424619 best: 3700.7424619 (30) total: 552ms remaining: 3.01s
31: learn: 3620.6391965 test: 3643.1458438 best: 3643.1458438 (31) total: 570ms remaining: 2.99s
32: learn: 3567.6358792 test: 3589.8519299 best: 3589.8519299 (32) total: 592ms remaining: 3s
33: learn: 3515.6278870 test: 3537.3638811 best: 3537.3638811 (33) total: 608ms remaining: 2.97s
34: learn: 3465.5702900 test: 3486.4659652 best: 3486.4659652 (34) total: 624ms remaining: 2.94s
35: learn: 3417.5386382 test: 3438.0705880 best: 3438.0705880 (35) total: 640ms remaining: 2.92s
36: learn: 3370.9293181 test: 3390.9599745 best: 3390.9599745 (36) total: 656ms remaining: 2.89s
37: learn: 3327.5411365 test: 3347.2833292 best: 3347.2833292 (37) total: 671ms remaining: 2.86s
38: learn: 3283.4335318 test: 3302.5363793 best: 3302.5363793 (38) total: 686ms remaining: 2.83s
39: learn: 3242.5505373 test: 3260.8766818 best: 3260.8766818 (39) total: 701ms remaining: 2.8s
40: learn: 3203.6210525 test: 3221.6884657 best: 3221.6884657 (40) total: 725ms remaining: 2.81s
41: learn: 3164.9664145 test: 3182.4728929 best: 3182.4728929 (41) total: 741ms remaining: 2.79s
42: learn: 3130.1520150 test: 3147.2203190 best: 3147.2203190 (42) total: 757ms remaining: 2.76s
43: learn: 3095.8019919 test: 3112.2842404 best: 3112.2842404 (43) total: 774ms remaining: 2.74s

44: learn: 3062.6213283 test: 3078.5414012 best: 3078.5414012 (44) total: 792ms remaining: 2.73s
45: learn: 3030.3902621 test: 3045.7332576 best: 3045.7332576 (45) total: 810ms remaining: 2.71s
46: learn: 3000.2522052 test: 3015.2866081 best: 3015.2866081 (46) total: 829ms remaining: 2.7s
47: learn: 2970.3621801 test: 2985.0240954 best: 2985.0240954 (47) total: 848ms remaining: 2.68s
48: learn: 2942.0492102 test: 2956.3582460 best: 2956.3582460 (48) total: 865ms remaining: 2.67s
49: learn: 2914.5877472 test: 2928.7459760 best: 2928.7459760 (49) total: 884ms remaining: 2.65s
50: learn: 2889.0581177 test: 2902.9564693 best: 2902.9564693 (50) total: 903ms remaining: 2.64s
51: learn: 2863.1723592 test: 2876.4009070 best: 2876.4009070 (51) total: 925ms remaining: 2.63s
52: learn: 2838.6357406 test: 2851.3077074 best: 2851.3077074 (52) total: 944ms remaining: 2.62s
53: learn: 2816.1139158 test: 2828.5211819 best: 2828.5211819 (53) total: 960ms remaining: 2.6s
54: learn: 2793.6262245 test: 2805.5275975 best: 2805.5275975 (54) total: 976ms remaining: 2.57s
55: learn: 2772.2968010 test: 2783.4645556 best: 2783.4645556 (55) total: 992ms remaining: 2.55s
56: learn: 2751.4282615 test: 2762.0717186 best: 2762.0717186 (56) total: 1.01s remaining: 2.53s
57: learn: 2731.7104472 test: 2742.1826450 best: 2742.1826450 (57) total: 1.03s remaining: 2.52s
58: learn: 2711.8129020 test: 2721.7450743 best: 2721.7450743 (58) total: 1.04s remaining: 2.49s
59: learn: 2692.8276263 test: 2702.2178506 best: 2702.2178506 (59) total: 1.06s remaining: 2.47s
60: learn: 2674.2908486 test: 2683.1293619 best: 2683.1293619 (60) total: 1.07s remaining: 2.45s
61: learn: 2657.3339415 test: 2665.9161250 best: 2665.9161250 (61) total: 1.09s remaining: 2.42s
62: learn: 2639.6337824 test: 2647.8105123 best: 2647.8105123 (62) total: 1.1s remaining: 2.4s
63: learn: 2624.1273547 test: 2632.0608631 best: 2632.0608631 (63) total: 1.13s remaining: 2.39s
64: learn: 2608.7951943 test: 2616.1480349 best: 2616.1480349 (64) total: 1.14s remaining: 2.37s
65: learn: 2594.3698991 test: 2601.3002269 best: 2601.3002269 (65) total: 1.16s remaining: 2.35s
66: learn: 2579.5937092 test: 2586.1045647 best: 2586.1045647 (66) total: 1.18s remaining: 2.33s
67: learn: 2565.9114045 test: 2572.0100452 best: 2572.0100452 (67) total: 1.19s remaining: 2.31s
68: learn: 2552.9631051 test: 2558.9482617 best: 2558.9482617 (68) total: 1.21s remaining: 2.3s
69: learn: 2538.5929723 test: 2543.9858850 best: 2543.9858850 (69) total: 1.23s remaining: 2.28s
70: learn: 2525.9742446 test: 2530.8853132 best: 2530.8853132 (70) total: 1.24s remaining: 2.26s
71: learn: 2513.6404566 test: 2518.1589543 best: 2518.1589543 (71) total: 1.26s remaining: 2.24s
72: learn: 2501.9664506 test: 2506.2559393 best: 2506.2559393 (72) total: 1.28s remaining: 2.22s
73: learn: 2489.7820444 test: 2493.7079504 best: 2493.7079504 (73) total: 1.29s remaining: 2.2s
74: learn: 2478.3013161 test: 2481.6790992 best: 2481.6790992 (74) total: 1.31s remaining: 2.18s
75: learn: 2467.6277766 test: 2470.6768072 best: 2470.6768072 (75) total: 1.33s remaining: 2.17s
76: learn: 2457.4968647 test: 2460.3247993 best: 2460.3247993 (76) total: 1.34s remaining: 2.15s
77: learn: 2447.6262220 test: 2450.0713037 best: 2450.0713037 (77) total: 1.36s remaining: 2.12s
78: learn: 2437.9303337 test: 2440.2123996 best: 2440.2123996 (78) total: 1.37s remaining: 2.1s
79: learn: 2427.6020421 test: 2429.5205245 best: 2429.5205245 (79) total: 1.39s remaining: 2.08s
80: learn: 2418.6269535 test: 2420.2197851 best: 2420.2197851 (80) total: 1.4s remaining: 2.06s
81: learn: 2409.2474944 test: 2410.4794844 best: 2410.4794844 (81) total: 1.42s remaining: 2.05s
82: learn: 2400.0400311 test: 2400.8708874 best: 2400.8708874 (82) total: 1.44s remaining: 2.02s
83: learn: 2391.6530213 test: 2392.3009263 best: 2392.3009263 (83) total: 1.45s remaining: 2.01s
84: learn: 2382.9500129 test: 2383.2570761 best: 2383.2570761 (84) total: 1.47s remaining: 1.99s

85: learn: 2374.8391890 test: 2374.8615140 best: 2374.8615140 (85) total: 1.48s remaining: 1.97s
86: learn: 2367.2324936 test: 2367.0885077 best: 2367.0885077 (86) total: 1.5s remaining: 1.95s
87: learn: 2359.8306426 test: 2359.5035696 best: 2359.5035696 (87) total: 1.52s remaining: 1.93s
88: learn: 2351.5600322 test: 2350.9458301 best: 2350.9458301 (88) total: 1.53s remaining: 1.91s
89: learn: 2344.6056361 test: 2343.6224882 best: 2343.6224882 (89) total: 1.55s remaining: 1.89s
90: learn: 2337.8216522 test: 2336.5768686 best: 2336.5768686 (90) total: 1.56s remaining: 1.87s
91: learn: 2331.0063864 test: 2329.2742011 best: 2329.2742011 (91) total: 1.58s remaining: 1.85s
92: learn: 2324.8835306 test: 2322.8886330 best: 2322.8886330 (92) total: 1.6s remaining: 1.84s
93: learn: 2318.5313166 test: 2316.2717864 best: 2316.2717864 (93) total: 1.61s remaining: 1.82s
94: learn: 2312.6178311 test: 2310.3509869 best: 2310.3509869 (94) total: 1.63s remaining: 1.8s
95: learn: 2306.8142708 test: 2304.3649677 best: 2304.3649677 (95) total: 1.65s remaining: 1.78s
96: learn: 2301.1449027 test: 2298.5183803 best: 2298.5183803 (96) total: 1.66s remaining: 1.76s
97: learn: 2295.6850511 test: 2292.7863732 best: 2292.7863732 (97) total: 1.68s remaining: 1.74s
98: learn: 2290.6804248 test: 2287.6048710 best: 2287.6048710 (98) total: 1.69s remaining: 1.73s
99: learn: 2285.5564138 test: 2282.1787172 best: 2282.1787172 (99) total: 1.71s remaining: 1.71s
100: learn: 2280.4159290 test: 2276.9560041 best: 2276.9560041 (100) total: 1.73s remaining: 1.69s
101: learn: 2275.2634638 test: 2271.5884496 best: 2271.5884496 (101) total: 1.74s remaining: 1.68s
102: learn: 2270.4319780 test: 2266.4773932 best: 2266.4773932 (102) total: 1.76s remaining: 1.66s
103: learn: 2265.4244722 test: 2261.3761350 best: 2261.3761350 (103) total: 1.77s remaining: 1.64s
104: learn: 2261.1702739 test: 2256.8026134 best: 2256.8026134 (104) total: 1.79s remaining: 1.62s
105: learn: 2256.8798579 test: 2252.5360565 best: 2252.5360565 (105) total: 1.81s remaining: 1.6s
106: learn: 2252.5264207 test: 2247.8971356 best: 2247.8971356 (106) total: 1.82s remaining: 1.58s
107: learn: 2247.2981008 test: 2242.6155291 best: 2242.6155291 (107) total: 1.84s remaining: 1.56s
108: learn: 2242.8500505 test: 2237.9010055 best: 2237.9010055 (108) total: 1.85s remaining: 1.55s
109: learn: 2238.8287322 test: 2233.9814116 best: 2233.9814116 (109) total: 1.87s remaining: 1.53s
110: learn: 2234.3256902 test: 2229.4461524 best: 2229.4461524 (110) total: 1.88s remaining: 1.51s
111: learn: 2230.0449052 test: 2225.1109337 best: 2225.1109337 (111) total: 1.9s remaining: 1.49s
112: learn: 2225.2931173 test: 2220.1309886 best: 2220.1309886 (112) total: 1.92s remaining: 1.48s
113: learn: 2221.5598105 test: 2216.3105658 best: 2216.3105658 (113) total: 1.94s remaining: 1.46s
114: learn: 2218.0763218 test: 2212.8609906 best: 2212.8609906 (114) total: 1.95s remaining: 1.44s
115: learn: 2214.0152982 test: 2208.7443004 best: 2208.7443004 (115) total: 1.97s remaining: 1.42s
116: learn: 2210.0942443 test: 2204.7118030 best: 2204.7118030 (116) total: 1.98s remaining: 1.4s
117: learn: 2205.8562334 test: 2200.1024481 best: 2200.1024481 (117) total: 2s remaining: 1.39s
118: learn: 2202.4921605 test: 2196.6105029 best: 2196.6105029 (118) total: 2.01s remaining: 1.37s
119: learn: 2199.2929318 test: 2193.2215152 best: 2193.2215152 (119) total: 2.03s remaining: 1.35s
120: learn: 2195.5349641 test: 2189.4434452 best: 2189.4434452 (120) total: 2.04s remaining: 1.33s
121: learn: 2192.3071799 test: 2186.2125388 best: 2186.2125388 (121) total: 2.06s remaining: 1.32s
122: learn: 2188.8855803 test: 2182.5711943 best: 2182.5711943 (122) total: 2.08s remaining: 1.3s
123: learn: 2185.8508980 test: 2179.4956234 best: 2179.4956234 (123) total: 2.09s remaining: 1.28s
124: learn: 2182.4096232 test: 2175.6808211 best: 2175.6808211 (124) total: 2.1s remaining: 1.26s
125: learn: 2179.0825073 test: 2172.0182716 best: 2172.0182716 (125) total: 2.13s remaining: 1.25s

126: learn: 2176.3591349 test: 2169.1881713 best: 2169.1881713 (126) total: 2.14s remaining: 1.23s
127: learn: 2172.8778441 test: 2165.6098774 best: 2165.6098774 (127) total: 2.16s remaining: 1.21s
128: learn: 2170.1155523 test: 2162.6842429 best: 2162.6842429 (128) total: 2.17s remaining: 1.2s
129: learn: 2166.6402344 test: 2159.0331297 best: 2159.0331297 (129) total: 2.19s remaining: 1.18s
130: learn: 2163.5789470 test: 2156.0254476 best: 2156.0254476 (130) total: 2.2s remaining: 1.16s
131: learn: 2159.7719290 test: 2152.2661745 best: 2152.2661745 (131) total: 2.22s remaining: 1.14s
132: learn: 2156.8124683 test: 2148.9549410 best: 2148.9549410 (132) total: 2.23s remaining: 1.13s
133: learn: 2154.2408168 test: 2146.4334352 best: 2146.4334352 (133) total: 2.25s remaining: 1.11s
134: learn: 2151.1396597 test: 2143.3155616 best: 2143.3155616 (134) total: 2.26s remaining: 1.09s
135: learn: 2148.3188329 test: 2140.3680650 best: 2140.3680650 (135) total: 2.28s remaining: 1.07s
136: learn: 2145.4340770 test: 2137.3218140 best: 2137.3218140 (136) total: 2.29s remaining: 1.05s
137: learn: 2143.2032572 test: 2135.1543676 best: 2135.1543676 (137) total: 2.31s remaining: 1.04s
138: learn: 2140.8227317 test: 2132.7433720 best: 2132.7433720 (138) total: 2.33s remaining: 1.02s
139: learn: 2138.2398225 test: 2130.2772943 best: 2130.2772943 (139) total: 2.34s remaining: 1s
140: learn: 2135.7972105 test: 2127.7410099 best: 2127.7410099 (140) total: 2.35s remaining: 986ms
141: learn: 2133.3073349 test: 2125.1901431 best: 2125.1901431 (141) total: 2.37s remaining: 968ms
142: learn: 2130.7912854 test: 2122.6229377 best: 2122.6229377 (142) total: 2.38s remaining: 951ms
143: learn: 2128.0214769 test: 2119.7180536 best: 2119.7180536 (143) total: 2.4s remaining: 934ms
144: learn: 2125.7154180 test: 2117.3404377 best: 2117.3404377 (144) total: 2.42s remaining: 918ms
145: learn: 2123.2828214 test: 2114.9049025 best: 2114.9049025 (145) total: 2.44s remaining: 901ms
146: learn: 2121.1602377 test: 2112.9027671 best: 2112.9027671 (146) total: 2.45s remaining: 884ms
147: learn: 2119.0619307 test: 2110.8842817 best: 2110.8842817 (147) total: 2.46s remaining: 866ms
148: learn: 2116.4563445 test: 2108.2571859 best: 2108.2571859 (148) total: 2.48s remaining: 849ms
149: learn: 2113.5310025 test: 2105.2398514 best: 2105.2398514 (149) total: 2.49s remaining: 832ms
150: learn: 2111.0498286 test: 2102.7759213 best: 2102.7759213 (150) total: 2.51s remaining: 815ms
151: learn: 2109.1922519 test: 2100.8264962 best: 2100.8264962 (151) total: 2.53s remaining: 798ms
152: learn: 2107.4229791 test: 2099.1234032 best: 2099.1234032 (152) total: 2.54s remaining: 781ms
153: learn: 2104.9561374 test: 2096.6088592 best: 2096.6088592 (153) total: 2.56s remaining: 764ms
154: learn: 2102.3479238 test: 2093.9711725 best: 2093.9711725 (154) total: 2.57s remaining: 747ms
155: learn: 2100.4950701 test: 2092.2123464 best: 2092.2123464 (155) total: 2.59s remaining: 730ms
156: learn: 2098.5001796 test: 2090.2722501 best: 2090.2722501 (156) total: 2.61s remaining: 715ms
157: learn: 2096.5119923 test: 2088.1898220 best: 2088.1898220 (157) total: 2.62s remaining: 698ms
158: learn: 2094.5391303 test: 2086.3978181 best: 2086.3978181 (158) total: 2.64s remaining: 681ms
159: learn: 2092.1209515 test: 2083.8638811 best: 2083.8638811 (159) total: 2.65s remaining: 664ms
160: learn: 2089.8889408 test: 2081.6352836 best: 2081.6352836 (160) total: 2.67s remaining: 647ms
161: learn: 2088.2171953 test: 2079.9296707 best: 2079.9296707 (161) total: 2.69s remaining: 630ms
162: learn: 2086.6556988 test: 2078.2344726 best: 2078.2344726 (162) total: 2.7s remaining: 613ms
163: learn: 2084.6396347 test: 2076.1300595 best: 2076.1300595 (163) total: 2.72s remaining: 596ms
164: learn: 2081.9143173 test: 2073.3088997 best: 2073.3088997 (164) total: 2.73s remaining: 580ms
165: learn: 2079.3893831 test: 2070.6735477 best: 2070.6735477 (165) total: 2.75s remaining: 563ms
166: learn: 2077.2907094 test: 2068.4218932 best: 2068.4218932 (166) total: 2.76s remaining: 546ms
167: learn: 2075.4067252 test: 2066.4426612 best: 2066.4426612 (167) total: 2.78s remaining: 529ms

167: learn: 2075.4067253 test: 2066.4486613 best: 2066.4486613 (167) total: 2.78s remaining: 529ms
168: learn: 2073.4585766 test: 2064.4653923 best: 2064.4653923 (168) total: 2.79s remaining: 512ms
169: learn: 2071.5007354 test: 2062.5078706 best: 2062.5078706 (169) total: 2.81s remaining: 497ms
170: learn: 2069.6524169 test: 2060.6496088 best: 2060.6496088 (170) total: 2.83s remaining: 480ms
171: learn: 2068.0534707 test: 2059.0876971 best: 2059.0876971 (171) total: 2.84s remaining: 463ms
172: learn: 2065.8998776 test: 2056.9263682 best: 2056.9263682 (172) total: 2.86s remaining: 447ms
173: learn: 2064.2332302 test: 2055.3698481 best: 2055.3698481 (173) total: 2.88s remaining: 430ms
174: learn: 2061.9545594 test: 2053.1162842 best: 2053.1162842 (174) total: 2.9s remaining: 414ms
175: learn: 2060.4244872 test: 2051.5290147 best: 2051.5290147 (175) total: 2.91s remaining: 397ms
176: learn: 2059.0316083 test: 2050.1255596 best: 2050.1255596 (176) total: 2.94s remaining: 382ms
177: learn: 2056.7176264 test: 2047.7032590 best: 2047.7032590 (177) total: 2.95s remaining: 365ms
178: learn: 2055.2926104 test: 2046.1231332 best: 2046.1231332 (178) total: 2.97s remaining: 348ms
179: learn: 2053.8212146 test: 2044.6912217 best: 2044.6912217 (179) total: 2.98s remaining: 331ms
180: learn: 2052.0191369 test: 2042.8719759 best: 2042.8719759 (180) total: 3s remaining: 315ms
181: learn: 2050.3115330 test: 2041.0956347 best: 2041.0956347 (181) total: 3.02s remaining: 299ms
182: learn: 2049.0956586 test: 2039.7764706 best: 2039.7764706 (182) total: 3.03s remaining: 282ms
183: learn: 2047.5495943 test: 2038.2685970 best: 2038.2685970 (183) total: 3.05s remaining: 265ms
184: learn: 2045.7653552 test: 2036.4730507 best: 2036.4730507 (184) total: 3.06s remaining: 249ms
185: learn: 2044.2764682 test: 2034.9442104 best: 2034.9442104 (185) total: 3.08s remaining: 232ms
186: learn: 2042.1911340 test: 2032.7687761 best: 2032.7687761 (186) total: 3.1s remaining: 215ms
187: learn: 2040.6542591 test: 2031.2667829 best: 2031.2667829 (187) total: 3.11s remaining: 199ms
188: learn: 2039.3792061 test: 2029.9788938 best: 2029.9788938 (188) total: 3.13s remaining: 182ms
189: learn: 2038.1562923 test: 2028.7423874 best: 2028.7423874 (189) total: 3.14s remaining: 165ms
190: learn: 2036.8382203 test: 2027.4274866 best: 2027.4274866 (190) total: 3.16s remaining: 149ms
191: learn: 2034.8880384 test: 2025.4002117 best: 2025.4002117 (191) total: 3.17s remaining: 132ms
192: learn: 2033.5796578 test: 2024.1080424 best: 2024.1080424 (192) total: 3.19s remaining: 116ms
193: learn: 2032.1767391 test: 2022.6946072 best: 2022.6946072 (193) total: 3.21s remaining: 99.2ms
194: learn: 2030.9685795 test: 2021.5701221 best: 2021.5701221 (194) total: 3.22s remaining: 82.7ms
195: learn: 2029.6241380 test: 2020.1341135 best: 2020.1341135 (195) total: 3.24s remaining: 66.1ms
196: learn: 2028.4121069 test: 2019.0465515 best: 2019.0465515 (196) total: 3.25s remaining: 49.5ms
197: learn: 2026.7415413 test: 2017.2851773 best: 2017.2851773 (197) total: 3.27s remaining: 33ms
198: learn: 2025.2977444 test: 2015.7629752 best: 2015.7629752 (198) total: 3.28s remaining: 16.5ms
199: learn: 2024.1749382 test: 2014.7660231 best: 2014.7660231 (199) total: 3.3s remaining: 0us

bestTest = 2014.766023

bestIteration = 199

40: loss: 2014.7660231 best: 1827.9322239 (33) total: 1m 26s remaining: 1m 56s

0: learn: 6410.7002914 test: 6438.8099240 best: 6438.8099240 (0) total: 17.1ms remaining: 3.4s

1: learn: 5902.7952903 test: 5929.5795235 best: 5929.5795235 (1) total: 33.8ms remaining: 3.35s

2: learn: 5454.8146524 test: 5481.8310286 best: 5481.8310286 (2) total: 50.2ms remaining: 3.3s

3: learn: 5062.6442382 test: 5090.1662277 best: 5090.1662277 (3) total: 66.3ms remaining: 3.25s

4: learn: 4707.5209539 test: 4734.4839889 best: 4734.4839889 (4) total: 82.7ms remaining: 3.23s
5: learn: 4396.1901620 test: 4423.1035336 best: 4423.1035336 (5) total: 108ms remaining: 3.48s
6: learn: 4126.1012641 test: 4152.1290640 best: 4152.1290640 (6) total: 125ms remaining: 3.46s
7: learn: 3885.0263934 test: 3910.0401688 best: 3910.0401688 (7) total: 142ms remaining: 3.4s
8: learn: 3673.2312320 test: 3696.3789374 best: 3696.3789374 (8) total: 158ms remaining: 3.35s
9: learn: 3488.7229255 test: 3510.4703354 best: 3510.4703354 (9) total: 173ms remaining: 3.29s
10: learn: 3330.1552594 test: 3350.9725460 best: 3350.9725460 (10) total: 192ms remaining: 3.3s
11: learn: 3189.2592366 test: 3209.0145868 best: 3209.0145868 (11) total: 209ms remaining: 3.27s
12: learn: 3072.4336896 test: 3090.3537804 best: 3090.3537804 (12) total: 225ms remaining: 3.24s
13: learn: 2961.9218783 test: 2978.2649966 best: 2978.2649966 (13) total: 241ms remaining: 3.2s
14: learn: 2871.2653104 test: 2885.9652569 best: 2885.9652569 (14) total: 258ms remaining: 3.18s
15: learn: 2792.1267768 test: 2804.4028556 best: 2804.4028556 (15) total: 274ms remaining: 3.15s
16: learn: 2723.6213679 test: 2734.9924737 best: 2734.9924737 (16) total: 295ms remaining: 3.17s
17: learn: 2663.2893574 test: 2672.6224671 best: 2672.6224671 (17) total: 314ms remaining: 3.17s
18: learn: 2609.2515472 test: 2617.9037753 best: 2617.9037753 (18) total: 331ms remaining: 3.15s
19: learn: 2562.8986852 test: 2570.7675832 best: 2570.7675832 (19) total: 346ms remaining: 3.11s
20: learn: 2516.1650643 test: 2522.4436697 best: 2522.4436697 (20) total: 361ms remaining: 3.08s
21: learn: 2476.7567057 test: 2481.6437757 best: 2481.6437757 (21) total: 376ms remaining: 3.04s
22: learn: 2440.5887650 test: 2444.4174668 best: 2444.4174668 (22) total: 393ms remaining: 3.03s
23: learn: 2407.2681286 test: 2409.7627690 best: 2409.7627690 (23) total: 409ms remaining: 3s
24: learn: 2378.6996139 test: 2380.1340426 best: 2380.1340426 (24) total: 425ms remaining: 2.97s
25: learn: 2354.8450164 test: 2355.0339995 best: 2355.0339995 (25) total: 440ms remaining: 2.94s
26: learn: 2330.0353599 test: 2329.6667544 best: 2329.6667544 (26) total: 457ms remaining: 2.92s
27: learn: 2309.0910012 test: 2308.5979769 best: 2308.5979769 (27) total: 473ms remaining: 2.91s
28: learn: 2290.0826322 test: 2289.2714252 best: 2289.2714252 (28) total: 493ms remaining: 2.9s
29: learn: 2271.4259131 test: 2269.4598699 best: 2269.4598699 (29) total: 508ms remaining: 2.88s
30: learn: 2255.3850230 test: 2252.7678494 best: 2252.7678494 (30) total: 523ms remaining: 2.85s
31: learn: 2241.5113533 test: 2238.3908987 best: 2238.3908987 (31) total: 539ms remaining: 2.83s
32: learn: 2226.5085142 test: 2222.9887692 best: 2222.9887692 (32) total: 554ms remaining: 2.8s
33: learn: 2213.2580396 test: 2208.9328457 best: 2208.9328457 (33) total: 569ms remaining: 2.78s
34: learn: 2200.2336010 test: 2194.6687100 best: 2194.6687100 (34) total: 587ms remaining: 2.77s
35: learn: 2188.3193050 test: 2182.5677304 best: 2182.5677304 (35) total: 602ms remaining: 2.74s
36: learn: 2177.6710916 test: 2171.9547858 best: 2171.9547858 (36) total: 617ms remaining: 2.72s
37: learn: 2167.7939929 test: 2162.0573947 best: 2162.0573947 (37) total: 632ms remaining: 2.69s
38: learn: 2158.5079355 test: 2152.4209399 best: 2152.4209399 (38) total: 648ms remaining: 2.67s
39: learn: 2151.2025819 test: 2145.1151674 best: 2145.1151674 (39) total: 662ms remaining: 2.65s
40: learn: 2141.7877353 test: 2134.6132348 best: 2134.6132348 (40) total: 677ms remaining: 2.63s
41: learn: 2133.2465280 test: 2126.0103867 best: 2126.0103867 (41) total: 699ms remaining: 2.63s
42: learn: 2124.1686133 test: 2116.9180295 best: 2116.9180295 (42) total: 714ms remaining: 2.61s
43: learn: 2116.3794342 test: 2109.1798264 best: 2109.1798264 (43) total: 729ms remaining: 2.58s
44: learn: 2108.2574211 test: 2101.1254463 best: 2101.1254463 (44) total: 745ms remaining: 2.56s

45: learn: 2102.3894445 test: 2095.4539095 best: 2095.4539095 (45) total: 761ms remaining: 2.55s
46: learn: 2094.6828893 test: 2087.8591150 best: 2087.8591150 (46) total: 776ms remaining: 2.52s
47: learn: 2089.2821348 test: 2081.9196873 best: 2081.9196873 (47) total: 793ms remaining: 2.51s
48: learn: 2081.7459438 test: 2074.4776311 best: 2074.4776311 (48) total: 808ms remaining: 2.49s
49: learn: 2076.3875031 test: 2068.8735284 best: 2068.8735284 (49) total: 823ms remaining: 2.47s
50: learn: 2069.4031950 test: 2061.5172554 best: 2061.5172554 (50) total: 838ms remaining: 2.45s
51: learn: 2062.7816129 test: 2054.7362645 best: 2054.7362645 (51) total: 854ms remaining: 2.43s
52: learn: 2054.1031344 test: 2045.5190623 best: 2045.5190623 (52) total: 870ms remaining: 2.41s
53: learn: 2048.9030141 test: 2040.5944708 best: 2040.5944708 (53) total: 888ms remaining: 2.4s
54: learn: 2044.0609076 test: 2036.0412415 best: 2036.0412415 (54) total: 904ms remaining: 2.38s
55: learn: 2037.4816010 test: 2029.1681893 best: 2029.1681893 (55) total: 919ms remaining: 2.36s
56: learn: 2032.2811750 test: 2023.5086048 best: 2023.5086048 (56) total: 934ms remaining: 2.34s
57: learn: 2028.4585084 test: 2020.0215866 best: 2020.0215866 (57) total: 949ms remaining: 2.32s
58: learn: 2024.8146404 test: 2016.4521961 best: 2016.4521961 (58) total: 963ms remaining: 2.3s
59: learn: 2019.8511997 test: 2011.5840403 best: 2011.5840403 (59) total: 979ms remaining: 2.28s
60: learn: 2014.4676840 test: 2005.8798946 best: 2005.8798946 (60) total: 995ms remaining: 2.27s
61: learn: 2010.6874366 test: 2002.4346584 best: 2002.4346584 (61) total: 1.01s remaining: 2.25s
62: learn: 2005.8819874 test: 1997.5465520 best: 1997.5465520 (62) total: 1.02s remaining: 2.23s
63: learn: 2002.5590069 test: 1994.8848663 best: 1994.8848663 (63) total: 1.04s remaining: 2.21s
64: learn: 1999.4950993 test: 1992.2223820 best: 1992.2223820 (64) total: 1.05s remaining: 2.19s
65: learn: 1994.3996430 test: 1986.7259786 best: 1986.7259786 (65) total: 1.07s remaining: 2.17s
66: learn: 1991.1889753 test: 1983.1083790 best: 1983.1083790 (66) total: 1.09s remaining: 2.16s
67: learn: 1986.8023696 test: 1978.6007775 best: 1978.6007775 (67) total: 1.1s remaining: 2.14s
68: learn: 1983.9885036 test: 1975.4805343 best: 1975.4805343 (68) total: 1.12s remaining: 2.12s
69: learn: 1979.1476171 test: 1970.5674138 best: 1970.5674138 (69) total: 1.13s remaining: 2.1s
70: learn: 1973.6512922 test: 1964.8033511 best: 1964.8033511 (70) total: 1.15s remaining: 2.09s
71: learn: 1970.8820424 test: 1962.2333392 best: 1962.2333392 (71) total: 1.16s remaining: 2.07s
72: learn: 1966.7086585 test: 1957.9244306 best: 1957.9244306 (72) total: 1.18s remaining: 2.05s
73: learn: 1963.1599975 test: 1954.3523901 best: 1954.3523901 (73) total: 1.19s remaining: 2.03s
74: learn: 1960.1243233 test: 1951.5519682 best: 1951.5519682 (74) total: 1.21s remaining: 2.02s
75: learn: 1958.0319500 test: 1949.7045781 best: 1949.7045781 (75) total: 1.22s remaining: 2s
76: learn: 1954.7886351 test: 1946.4886108 best: 1946.4886108 (76) total: 1.24s remaining: 1.98s
77: learn: 1952.0552123 test: 1943.7103636 best: 1943.7103636 (77) total: 1.25s remaining: 1.96s
78: learn: 1948.3391229 test: 1939.8499610 best: 1939.8499610 (78) total: 1.27s remaining: 1.95s
79: learn: 1946.2319663 test: 1938.1553295 best: 1938.1553295 (79) total: 1.29s remaining: 1.93s
80: learn: 1944.2819299 test: 1936.0837543 best: 1936.0837543 (80) total: 1.3s remaining: 1.91s
81: learn: 1941.9680549 test: 1933.5515960 best: 1933.5515960 (81) total: 1.32s remaining: 1.89s
82: learn: 1939.5839199 test: 1930.9820747 best: 1930.9820747 (82) total: 1.33s remaining: 1.88s
83: learn: 1936.9068045 test: 1928.2464838 best: 1928.2464838 (83) total: 1.35s remaining: 1.86s
84: learn: 1934.6292543 test: 1926.2745429 best: 1926.2745429 (84) total: 1.36s remaining: 1.85s
85: learn: 1932.1641286 test: 1923.6099249 best: 1923.6099249 (85) total: 1.38s remaining: 1.83s

86: learn: 1928.1421188 test: 1919.3993512 best: 1919.3993512 (86) total: 1.4s remaining: 1.82s
87: learn: 1925.7292611 test: 1917.0513186 best: 1917.0513186 (87) total: 1.42s remaining: 1.8s
88: learn: 1924.1082059 test: 1915.6541641 best: 1915.6541641 (88) total: 1.43s remaining: 1.78s
89: learn: 1922.3784553 test: 1913.6804252 best: 1913.6804252 (89) total: 1.45s remaining: 1.77s
90: learn: 1920.7706058 test: 1912.3482739 best: 1912.3482739 (90) total: 1.47s remaining: 1.75s
91: learn: 1918.5125711 test: 1910.1031496 best: 1910.1031496 (91) total: 1.49s remaining: 1.75s
92: learn: 1917.1150579 test: 1909.0183040 best: 1909.0183040 (92) total: 1.51s remaining: 1.73s
93: learn: 1914.7031922 test: 1906.4898349 best: 1906.4898349 (93) total: 1.53s remaining: 1.72s
94: learn: 1913.1635999 test: 1905.0006115 best: 1905.0006115 (94) total: 1.55s remaining: 1.71s
95: learn: 1911.6224308 test: 1903.2817215 best: 1903.2817215 (95) total: 1.57s remaining: 1.7s
96: learn: 1909.9132171 test: 1901.8139776 best: 1901.8139776 (96) total: 1.59s remaining: 1.69s
97: learn: 1907.9989040 test: 1899.8789298 best: 1899.8789298 (97) total: 1.61s remaining: 1.68s
98: learn: 1906.7421744 test: 1898.8498261 best: 1898.8498261 (98) total: 1.63s remaining: 1.66s
99: learn: 1903.8925026 test: 1895.7663824 best: 1895.7663824 (99) total: 1.65s remaining: 1.65s
100: learn: 1902.0048777 test: 1893.9204862 best: 1893.9204862 (100) total: 1.67s remaining: 1.64s
101: learn: 1900.5290806 test: 1892.4258041 best: 1892.4258041 (101) total: 1.69s remaining: 1.62s
102: learn: 1898.7361675 test: 1890.4568733 best: 1890.4568733 (102) total: 1.71s remaining: 1.61s
103: learn: 1896.5578037 test: 1888.3709657 best: 1888.3709657 (103) total: 1.73s remaining: 1.59s
104: learn: 1895.2061930 test: 1887.0641665 best: 1887.0641665 (104) total: 1.74s remaining: 1.58s
105: learn: 1892.4530400 test: 1884.1556569 best: 1884.1556569 (105) total: 1.76s remaining: 1.56s
106: learn: 1890.4665985 test: 1882.3167671 best: 1882.3167671 (106) total: 1.78s remaining: 1.55s
107: learn: 1887.6032124 test: 1879.7196200 best: 1879.7196200 (107) total: 1.8s remaining: 1.53s
108: learn: 1886.5602402 test: 1878.9438855 best: 1878.9438855 (108) total: 1.81s remaining: 1.51s
109: learn: 1884.8507112 test: 1877.1712875 best: 1877.1712875 (109) total: 1.83s remaining: 1.5s
110: learn: 1883.4305083 test: 1875.9264924 best: 1875.9264924 (110) total: 1.84s remaining: 1.48s
111: learn: 1882.3680798 test: 1875.0180485 best: 1875.0180485 (111) total: 1.86s remaining: 1.46s
112: learn: 1881.3302615 test: 1874.0473262 best: 1874.0473262 (112) total: 1.87s remaining: 1.44s
113: learn: 1878.9451996 test: 1872.4172853 best: 1872.4172853 (113) total: 1.89s remaining: 1.42s
114: learn: 1877.6314857 test: 1871.2359732 best: 1871.2359732 (114) total: 1.9s remaining: 1.41s
115: learn: 1875.4794425 test: 1868.9290673 best: 1868.9290673 (115) total: 1.92s remaining: 1.39s
116: learn: 1873.3862753 test: 1866.6726474 best: 1866.6726474 (116) total: 1.93s remaining: 1.37s
117: learn: 1872.1763955 test: 1865.6775898 best: 1865.6775898 (117) total: 1.95s remaining: 1.35s
118: learn: 1871.2497985 test: 1864.8636144 best: 1864.8636144 (118) total: 1.96s remaining: 1.34s
119: learn: 1869.8760431 test: 1863.5314494 best: 1863.5314494 (119) total: 1.98s remaining: 1.32s
120: learn: 1868.0918638 test: 1862.2599660 best: 1862.2599660 (120) total: 2s remaining: 1.3s
121: learn: 1865.4235502 test: 1859.7326595 best: 1859.7326595 (121) total: 2.01s remaining: 1.29s
122: learn: 1864.5383599 test: 1859.0494255 best: 1859.0494255 (122) total: 2.03s remaining: 1.27s
123: learn: 1863.6143713 test: 1857.9497294 best: 1857.9497294 (123) total: 2.04s remaining: 1.25s
124: learn: 1862.6009642 test: 1856.9633551 best: 1856.9633551 (124) total: 2.06s remaining: 1.23s
125: learn: 1860.9576997 test: 1855.2822081 best: 1855.2822081 (125) total: 2.08s remaining: 1.22s
126: learn: 1860.1248720 test: 1854.3963945 best: 1854.3963945 (126) total: 2.09s remaining: 1.2s
127: learn: 1859.5221551 test: 1852.9277106 best: 1852.9277106 (127) total: 2.1s remaining: 1.18s

127: learn: 1858.5221551 test: 1852.8277106 best: 1852.8277106 (127) total: 2.1s remaining: 1.16s
128: learn: 1857.0514225 test: 1851.4693671 best: 1851.4693671 (128) total: 2.12s remaining: 1.17s
129: learn: 1855.6717158 test: 1849.8674309 best: 1849.8674309 (129) total: 2.13s remaining: 1.15s
130: learn: 1853.8143104 test: 1848.0492395 best: 1848.0492395 (130) total: 2.15s remaining: 1.13s
131: learn: 1853.0529188 test: 1847.5194334 best: 1847.5194334 (131) total: 2.16s remaining: 1.11s
132: learn: 1851.4141104 test: 1845.7395645 best: 1845.7395645 (132) total: 2.18s remaining: 1.1s
133: learn: 1850.4276745 test: 1845.0246781 best: 1845.0246781 (133) total: 2.19s remaining: 1.08s
134: learn: 1849.5069591 test: 1844.0730316 best: 1844.0730316 (134) total: 2.21s remaining: 1.06s
135: learn: 1848.2253190 test: 1842.8667386 best: 1842.8667386 (135) total: 2.22s remaining: 1.05s
136: learn: 1847.2903117 test: 1842.1852440 best: 1842.1852440 (136) total: 2.24s remaining: 1.03s
137: learn: 1846.0051185 test: 1840.9321810 best: 1840.9321810 (137) total: 2.25s remaining: 1.01s
138: learn: 1844.8705224 test: 1839.9844149 best: 1839.9844149 (138) total: 2.27s remaining: 996ms
139: learn: 1843.0894483 test: 1838.7293448 best: 1838.7293448 (139) total: 2.29s remaining: 979ms
140: learn: 1841.7801074 test: 1837.3926721 best: 1837.3926721 (140) total: 2.3s remaining: 963ms
141: learn: 1840.4641713 test: 1836.1022647 best: 1836.1022647 (141) total: 2.32s remaining: 946ms
142: learn: 1839.3812775 test: 1835.0871026 best: 1835.0871026 (142) total: 2.33s remaining: 929ms
143: learn: 1838.6248625 test: 1834.4865754 best: 1834.4865754 (143) total: 2.35s remaining: 913ms
144: learn: 1837.7212414 test: 1833.4798967 best: 1833.4798967 (144) total: 2.36s remaining: 896ms
145: learn: 1836.8208760 test: 1832.7812620 best: 1832.7812620 (145) total: 2.38s remaining: 880ms
146: learn: 1835.7646943 test: 1831.5908377 best: 1831.5908377 (146) total: 2.39s remaining: 863ms
147: learn: 1834.0492909 test: 1829.8730829 best: 1829.8730829 (147) total: 2.41s remaining: 846ms
148: learn: 1833.0295133 test: 1828.9535981 best: 1828.9535981 (148) total: 2.42s remaining: 829ms
149: learn: 1832.0231273 test: 1827.9322239 best: 1827.9322239 (149) total: 2.44s remaining: 813ms
150: learn: 1831.4265390 test: 1827.2931097 best: 1827.2931097 (150) total: 2.45s remaining: 796ms
151: learn: 1830.2938456 test: 1826.1123246 best: 1826.1123246 (151) total: 2.47s remaining: 780ms
152: learn: 1829.1818562 test: 1825.4990704 best: 1825.4990704 (152) total: 2.48s remaining: 763ms
153: learn: 1828.1121465 test: 1824.4985690 best: 1824.4985690 (153) total: 2.5s remaining: 746ms
154: learn: 1827.5352476 test: 1823.8275017 best: 1823.8275017 (154) total: 2.51s remaining: 729ms
155: learn: 1826.6666512 test: 1823.3035080 best: 1823.3035080 (155) total: 2.53s remaining: 713ms
156: learn: 1825.7970678 test: 1822.4383760 best: 1822.4383760 (156) total: 2.54s remaining: 696ms
157: learn: 1825.0563943 test: 1821.6659171 best: 1821.6659171 (157) total: 2.56s remaining: 679ms
158: learn: 1824.0892154 test: 1820.8907874 best: 1820.8907874 (158) total: 2.58s remaining: 664ms
159: learn: 1822.5202194 test: 1819.6274013 best: 1819.6274013 (159) total: 2.59s remaining: 648ms
160: learn: 1821.0651577 test: 1818.5516187 best: 1818.5516187 (160) total: 2.61s remaining: 632ms
161: learn: 1820.3250290 test: 1817.8538798 best: 1817.8538798 (161) total: 2.62s remaining: 615ms
162: learn: 1819.7563388 test: 1817.4565424 best: 1817.4565424 (162) total: 2.64s remaining: 598ms
163: learn: 1818.7750280 test: 1816.5169234 best: 1816.5169234 (163) total: 2.66s remaining: 583ms
164: learn: 1817.5823948 test: 1815.4134695 best: 1815.4134695 (164) total: 2.67s remaining: 567ms
165: learn: 1816.9201299 test: 1814.9529121 best: 1814.9529121 (165) total: 2.69s remaining: 551ms
166: learn: 1816.1613811 test: 1814.3734517 best: 1814.3734517 (166) total: 2.7s remaining: 534ms
167: learn: 1815.1704475 test: 1813.3487251 best: 1813.3487251 (167) total: 2.72s remaining: 518ms
168: learn: 1814.2995453 test: 1812.4706046 best: 1812.4706046 (168) total: 2.73s remaining: 502ms

169: learn: 1813.6798995 test: 1811.8092704 best: 1811.8092704 (169) total: 2.75s remaining: 485ms
170: learn: 1812.5848237 test: 1811.1250531 best: 1811.1250531 (170) total: 2.77s remaining: 470ms
171: learn: 1811.7484504 test: 1810.3921086 best: 1810.3921086 (171) total: 2.78s remaining: 453ms
172: learn: 1810.9301510 test: 1809.6242109 best: 1809.6242109 (172) total: 2.8s remaining: 437ms
173: learn: 1810.4173029 test: 1809.1520205 best: 1809.1520205 (173) total: 2.81s remaining: 420ms
174: learn: 1809.1880663 test: 1808.0236287 best: 1808.0236287 (174) total: 2.83s remaining: 404ms
175: learn: 1808.1486811 test: 1806.8206865 best: 1806.8206865 (175) total: 2.84s remaining: 388ms
176: learn: 1807.0889767 test: 1805.8952583 best: 1805.8952583 (176) total: 2.86s remaining: 372ms
177: learn: 1805.9760604 test: 1804.5751302 best: 1804.5751302 (177) total: 2.88s remaining: 356ms
178: learn: 1805.3778116 test: 1803.9697086 best: 1803.9697086 (178) total: 2.89s remaining: 339ms
179: learn: 1804.2878823 test: 1803.3053052 best: 1803.3053052 (179) total: 2.91s remaining: 323ms
180: learn: 1803.5148127 test: 1802.4682343 best: 1802.4682343 (180) total: 2.92s remaining: 307ms
181: learn: 1802.4657774 test: 1801.5039328 best: 1801.5039328 (181) total: 2.94s remaining: 291ms
182: learn: 1801.9340753 test: 1801.2284856 best: 1801.2284856 (182) total: 2.95s remaining: 274ms
183: learn: 1800.4676080 test: 1800.1967283 best: 1800.1967283 (183) total: 2.97s remaining: 259ms
184: learn: 1800.0439689 test: 1799.7779591 best: 1799.7779591 (184) total: 2.99s remaining: 242ms
185: learn: 1799.2316706 test: 1799.1033786 best: 1799.1033786 (185) total: 3s remaining: 226ms
186: learn: 1798.1266686 test: 1797.9463156 best: 1797.9463156 (186) total: 3.02s remaining: 210ms
187: learn: 1797.4420963 test: 1797.3080319 best: 1797.3080319 (187) total: 3.03s remaining: 194ms
188: learn: 1796.5943440 test: 1796.4244660 best: 1796.4244660 (188) total: 3.05s remaining: 177ms
189: learn: 1795.9533375 test: 1795.9501841 best: 1795.9501841 (189) total: 3.06s remaining: 161ms
190: learn: 1795.2635133 test: 1795.2903412 best: 1795.2903412 (190) total: 3.08s remaining: 145ms
191: learn: 1794.3650263 test: 1794.3087154 best: 1794.3087154 (191) total: 3.09s remaining: 129ms
192: learn: 1793.4681045 test: 1793.7488060 best: 1793.7488060 (192) total: 3.11s remaining: 113ms
193: learn: 1792.6904437 test: 1793.2210033 best: 1793.2210033 (193) total: 3.12s remaining: 96.6ms
194: learn: 1791.7307126 test: 1792.3821774 best: 1792.3821774 (194) total: 3.14s remaining: 80.5ms
195: learn: 1791.1479216 test: 1792.1851843 best: 1792.1851843 (195) total: 3.15s remaining: 64.4ms
196: learn: 1790.2526683 test: 1791.4254708 best: 1791.4254708 (196) total: 3.17s remaining: 48.3ms
197: learn: 1789.5120930 test: 1790.6273174 best: 1790.6273174 (197) total: 3.19s remaining: 32.2ms
198: learn: 1788.9186967 test: 1790.2631087 best: 1790.2631087 (198) total: 3.2s remaining: 16.1ms
199: learn: 1787.9885775 test: 1789.4563793 best: 1789.4563793 (199) total: 3.21s remaining: 0us

bestTest = 1789.456379

bestIteration = 199

41: loss: 1789.4563793 best: 1789.4563793 (41) total: 1m 29s remaining: 1m 55s
0: learn: 6809.5487122 test: 6837.6525129 best: 6837.6525129 (0) total: 17.3ms remaining: 3.45s
1: learn: 6643.1263824 test: 6670.8775106 best: 6670.8775106 (1) total: 37.1ms remaining: 3.67s
2: learn: 6482.7733570 test: 6510.6592765 best: 6510.6592765 (2) total: 53.9ms remaining: 3.54s
3: learn: 6329.3269464 test: 6357.5631080 best: 6357.5631080 (3) total: 70.6ms remaining: 3.46s
4: learn: 6179.8335771 test: 6208.2706003 best: 6208.2706003 (4) total: 87.1ms remaining: 3.4s

5: learn: 6033.8020905 test: 6062.2899288 best: 6062.2899288 (5) total: 104ms remaining: 3.35s
6: learn: 5893.8962953 test: 5922.4791307 best: 5922.4791307 (6) total: 121ms remaining: 3.33s
7: learn: 5758.5099192 test: 5786.8307217 best: 5786.8307217 (7) total: 145ms remaining: 3.47s
8: learn: 5626.8991198 test: 5655.0056568 best: 5655.0056568 (8) total: 161ms remaining: 3.42s
9: learn: 5501.5156545 test: 5529.6338088 best: 5529.6338088 (9) total: 178ms remaining: 3.38s
10: learn: 5380.1000367 test: 5408.1943600 best: 5408.1943600 (10) total: 194ms remaining: 3.33s
11: learn: 5262.5675785 test: 5290.6936105 best: 5290.6936105 (11) total: 210ms remaining: 3.29s
12: learn: 5149.0843144 test: 5177.1011724 best: 5177.1011724 (12) total: 226ms remaining: 3.25s
13: learn: 5039.7750369 test: 5067.7149466 best: 5067.7149466 (13) total: 243ms remaining: 3.23s
14: learn: 4934.3204361 test: 4962.2024629 best: 4962.2024629 (14) total: 260ms remaining: 3.2s
15: learn: 4832.8705275 test: 4860.4059869 best: 4860.4059869 (15) total: 277ms remaining: 3.18s
16: learn: 4734.2802482 test: 4761.5367757 best: 4761.5367757 (16) total: 294ms remaining: 3.16s
17: learn: 4639.8718592 test: 4666.7285192 best: 4666.7285192 (17) total: 311ms remaining: 3.14s
18: learn: 4549.8096286 test: 4576.3630969 best: 4576.3630969 (18) total: 330ms remaining: 3.14s
19: learn: 4462.1148870 test: 4488.5231741 best: 4488.5231741 (19) total: 346ms remaining: 3.11s
20: learn: 4376.7401790 test: 4402.7764247 best: 4402.7764247 (20) total: 362ms remaining: 3.08s
21: learn: 4294.8321763 test: 4320.5161533 best: 4320.5161533 (21) total: 377ms remaining: 3.05s
22: learn: 4214.4658821 test: 4240.2061615 best: 4240.2061615 (22) total: 393ms remaining: 3.02s
23: learn: 4137.6491933 test: 4163.3495017 best: 4163.3495017 (23) total: 409ms remaining: 3s
24: learn: 4064.8077725 test: 4090.0988718 best: 4090.0988718 (24) total: 428ms remaining: 3s
25: learn: 3993.5437030 test: 4018.2947166 best: 4018.2947166 (25) total: 444ms remaining: 2.97s
26: learn: 3924.3274919 test: 3948.9539808 best: 3948.9539808 (26) total: 460ms remaining: 2.94s
27: learn: 3860.7898222 test: 3884.9645674 best: 3884.9645674 (27) total: 475ms remaining: 2.92s
28: learn: 3797.4474907 test: 3821.1752846 best: 3821.1752846 (28) total: 491ms remaining: 2.9s
29: learn: 3736.6319359 test: 3759.8106580 best: 3759.8106580 (29) total: 508ms remaining: 2.88s
30: learn: 3677.8497278 test: 3700.8277038 best: 3700.8277038 (30) total: 524ms remaining: 2.86s
31: learn: 3620.7234958 test: 3643.2317181 best: 3643.2317181 (31) total: 541ms remaining: 2.84s
32: learn: 3567.7186845 test: 3589.9363496 best: 3589.9363496 (32) total: 557ms remaining: 2.82s
33: learn: 3515.7099945 test: 3537.4476566 best: 3537.4476566 (33) total: 572ms remaining: 2.79s
34: learn: 3465.6515420 test: 3486.5489143 best: 3486.5489143 (34) total: 588ms remaining: 2.77s
35: learn: 3417.6189996 test: 3438.1526676 best: 3438.1526676 (35) total: 604ms remaining: 2.75s
36: learn: 3371.0095290 test: 3391.0420481 best: 3391.0420481 (36) total: 620ms remaining: 2.73s
37: learn: 3327.6208557 test: 3347.3649104 best: 3347.3649104 (37) total: 640ms remaining: 2.73s
38: learn: 3283.5121411 test: 3302.6168866 best: 3302.6168866 (38) total: 656ms remaining: 2.71s
39: learn: 3242.6278522 test: 3260.9559213 best: 3260.9559213 (39) total: 670ms remaining: 2.68s
40: learn: 3203.6978041 test: 3221.7671273 best: 3221.7671273 (40) total: 685ms remaining: 2.66s
41: learn: 3165.0417926 test: 3182.5502337 best: 3182.5502337 (41) total: 700ms remaining: 2.63s
42: learn: 3130.2260211 test: 3147.2963016 best: 3147.2963016 (42) total: 716ms remaining: 2.61s
43: learn: 3095.8755116 test: 3112.3599231 best: 3112.3599231 (43) total: 733ms remaining: 2.6s
44: learn: 3062.6943162 test: 3078.6166028 best: 3078.6166028 (44) total: 750ms remaining: 2.58s
45: learn: 3030.4624623 test: 3045.8077192 best: 3045.8077192 (45) total: 766ms remaining: 2.56s

46: learn: 3000.3241726 test: 3015.3608177 best: 3015.3608177 (46) total: 781ms remaining: 2.54s
47: learn: 2970.4345963 test: 2985.0987449 best: 2985.0987449 (47) total: 796ms remaining: 2.52s
48: learn: 2942.1240162 test: 2956.4352961 best: 2956.4352961 (48) total: 812ms remaining: 2.5s
49: learn: 2914.6616830 test: 2928.8221615 best: 2928.8221615 (49) total: 831ms remaining: 2.49s
50: learn: 2889.1349466 test: 2903.0354803 best: 2903.0354803 (50) total: 846ms remaining: 2.47s
51: learn: 2863.2484481 test: 2876.4792886 best: 2876.4792886 (51) total: 862ms remaining: 2.45s
52: learn: 2838.7108918 test: 2851.3852001 best: 2851.3852001 (52) total: 877ms remaining: 2.43s
53: learn: 2816.1884464 test: 2828.5979088 best: 2828.5979088 (53) total: 892ms remaining: 2.41s
54: learn: 2793.6994563 test: 2805.6030392 best: 2805.6030392 (54) total: 907ms remaining: 2.39s
55: learn: 2772.3731162 test: 2783.5407201 best: 2783.5407201 (55) total: 923ms remaining: 2.37s
56: learn: 2751.5061800 test: 2762.1496646 best: 2762.1496646 (56) total: 939ms remaining: 2.35s
57: learn: 2731.7900006 test: 2742.2618436 best: 2742.2618436 (57) total: 956ms remaining: 2.34s
58: learn: 2711.8913322 test: 2721.8232382 best: 2721.8232382 (58) total: 974ms remaining: 2.33s
59: learn: 2692.9057967 test: 2702.2961497 best: 2702.2961497 (59) total: 989ms remaining: 2.31s
60: learn: 2674.3678837 test: 2683.2064967 best: 2683.2064967 (60) total: 1s remaining: 2.29s
61: learn: 2657.4133365 test: 2665.9943225 best: 2665.9943225 (61) total: 1.02s remaining: 2.28s
62: learn: 2639.7142024 test: 2647.8881768 best: 2647.8881768 (62) total: 1.04s remaining: 2.26s
63: learn: 2624.2077665 test: 2632.1383075 best: 2632.1383075 (63) total: 1.05s remaining: 2.24s
64: learn: 2608.8747757 test: 2616.2246430 best: 2616.2246430 (64) total: 1.07s remaining: 2.22s
65: learn: 2594.4491289 test: 2601.3764580 best: 2601.3764580 (65) total: 1.09s remaining: 2.21s
66: learn: 2579.6722955 test: 2586.1801518 best: 2586.1801518 (66) total: 1.1s remaining: 2.19s
67: learn: 2565.9902816 test: 2572.0860584 best: 2572.0860584 (67) total: 1.12s remaining: 2.17s
68: learn: 2553.0437089 test: 2559.0260908 best: 2559.0260908 (68) total: 1.13s remaining: 2.15s
69: learn: 2538.6730235 test: 2544.0630418 best: 2544.0630418 (69) total: 1.15s remaining: 2.14s
70: learn: 2526.0553964 test: 2530.9635147 best: 2530.9635147 (70) total: 1.17s remaining: 2.13s
71: learn: 2513.7209558 test: 2518.2365118 best: 2518.2365118 (71) total: 1.19s remaining: 2.11s
72: learn: 2502.0476746 test: 2506.3341642 best: 2506.3341642 (72) total: 1.2s remaining: 2.09s
73: learn: 2489.8642939 test: 2493.7853925 best: 2493.7853925 (73) total: 1.22s remaining: 2.08s
74: learn: 2478.3826648 test: 2481.7556460 best: 2481.7556460 (74) total: 1.24s remaining: 2.07s
75: learn: 2467.7085140 test: 2470.7527147 best: 2470.7527147 (75) total: 1.25s remaining: 2.05s
76: learn: 2457.5768330 test: 2460.3998684 best: 2460.3998684 (76) total: 1.27s remaining: 2.03s
77: learn: 2447.7069300 test: 2450.1466772 best: 2450.1466772 (77) total: 1.29s remaining: 2.01s
78: learn: 2438.0104258 test: 2440.2870502 best: 2440.2870502 (78) total: 1.3s remaining: 2s
79: learn: 2427.6867758 test: 2429.5951062 best: 2429.5951062 (79) total: 1.32s remaining: 1.98s
80: learn: 2418.7123466 test: 2420.2943914 best: 2420.2943914 (80) total: 1.33s remaining: 1.96s
81: learn: 2409.3322691 test: 2410.5533898 best: 2410.5533898 (81) total: 1.35s remaining: 1.94s
82: learn: 2400.1242351 test: 2400.9442906 best: 2400.9442906 (82) total: 1.36s remaining: 1.92s
83: learn: 2391.7366130 test: 2392.3736220 best: 2392.3736220 (83) total: 1.38s remaining: 1.91s
84: learn: 2383.0379517 test: 2383.3296510 best: 2383.3296510 (84) total: 1.4s remaining: 1.89s
85: learn: 2374.9262030 test: 2374.9331273 best: 2374.9331273 (85) total: 1.41s remaining: 1.87s
86: learn: 2367.3193311 test: 2367.1598891 best: 2367.1598891 (86) total: 1.43s remaining: 1.86s
87: learn: 2359.9176763 test: 2359.5750897 best: 2359.5750897 (87) total: 1.45s remaining: 1.84s

87: learn: 2353.575063 test: 2353.575063 best: 2353.575063 (87) total: 1.46s remaining: 1.64s
88: learn: 2351.6468147 test: 2351.0170092 best: 2351.0170092 (88) total: 1.46s remaining: 1.82s
89: learn: 2344.6920060 test: 2343.6932297 best: 2343.6932297 (89) total: 1.48s remaining: 1.81s
90: learn: 2337.9136887 test: 2336.6485736 best: 2336.6485736 (90) total: 1.49s remaining: 1.79s
91: learn: 2331.0973607 test: 2329.3447141 best: 2329.3447141 (91) total: 1.51s remaining: 1.77s
92: learn: 2324.9742829 test: 2322.9587133 best: 2322.9587133 (92) total: 1.53s remaining: 1.76s
93: learn: 2318.6214110 test: 2316.3410401 best: 2316.3410401 (93) total: 1.54s remaining: 1.74s
94: learn: 2312.7088121 test: 2310.4212959 best: 2310.4212959 (94) total: 1.56s remaining: 1.72s
95: learn: 2306.9046529 test: 2304.4345608 best: 2304.4345608 (95) total: 1.57s remaining: 1.7s
96: learn: 2301.2353120 test: 2298.5872225 best: 2298.5872225 (96) total: 1.59s remaining: 1.69s
97: learn: 2295.7754988 test: 2292.8544221 best: 2292.8544221 (97) total: 1.6s remaining: 1.67s
98: learn: 2290.7707571 test: 2287.6727031 best: 2287.6727031 (98) total: 1.62s remaining: 1.65s
99: learn: 2285.6498866 test: 2282.2465965 best: 2282.2465965 (99) total: 1.64s remaining: 1.64s
100: learn: 2280.5092847 test: 2277.0237146 best: 2277.0237146 (100) total: 1.65s remaining: 1.62s
101: learn: 2275.3607024 test: 2271.6565445 best: 2271.6565445 (101) total: 1.67s remaining: 1.6s
102: learn: 2270.5341962 test: 2266.5457798 best: 2266.5457798 (102) total: 1.68s remaining: 1.58s
103: learn: 2265.5270487 test: 2261.4456879 best: 2261.4456879 (103) total: 1.7s remaining: 1.56s
104: learn: 2261.2732335 test: 2256.8722685 best: 2256.8722685 (104) total: 1.71s remaining: 1.55s
105: learn: 2256.9835402 test: 2252.6063519 best: 2252.6063519 (105) total: 1.73s remaining: 1.53s
106: learn: 2252.6298328 test: 2247.9669127 best: 2247.9669127 (106) total: 1.74s remaining: 1.51s
107: learn: 2247.4030734 test: 2242.6867207 best: 2242.6867207 (107) total: 1.76s remaining: 1.5s
108: learn: 2242.9554158 test: 2237.9715261 best: 2237.9715261 (108) total: 1.77s remaining: 1.48s
109: learn: 2238.9342997 test: 2234.0519204 best: 2234.0519204 (109) total: 1.79s remaining: 1.46s
110: learn: 2234.4312489 test: 2229.5164303 best: 2229.5164303 (110) total: 1.81s remaining: 1.45s
111: learn: 2230.1495611 test: 2225.1803885 best: 2225.1803885 (111) total: 1.83s remaining: 1.44s
112: learn: 2225.3984273 test: 2220.1992369 best: 2220.1992369 (112) total: 1.84s remaining: 1.42s
113: learn: 2221.6668552 test: 2216.3798537 best: 2216.3798537 (113) total: 1.86s remaining: 1.4s
114: learn: 2218.1831560 test: 2212.9299089 best: 2212.9299089 (114) total: 1.88s remaining: 1.39s
115: learn: 2214.1228482 test: 2208.8136102 best: 2208.8136102 (115) total: 1.89s remaining: 1.37s
116: learn: 2210.2018013 test: 2204.7810876 best: 2204.7810876 (116) total: 1.91s remaining: 1.35s
117: learn: 2205.9649448 test: 2200.1746971 best: 2200.1746971 (117) total: 1.93s remaining: 1.34s
118: learn: 2202.6010674 test: 2196.6822125 best: 2196.6822125 (118) total: 1.94s remaining: 1.32s
119: learn: 2199.4015257 test: 2193.2925386 best: 2193.2925386 (119) total: 1.96s remaining: 1.3s
120: learn: 2195.6431185 test: 2189.5140533 best: 2189.5140533 (120) total: 1.97s remaining: 1.29s
121: learn: 2192.4153339 test: 2186.2830157 best: 2186.2830157 (121) total: 1.99s remaining: 1.27s
122: learn: 2188.9933203 test: 2182.6410169 best: 2182.6410169 (122) total: 2s remaining: 1.25s
123: learn: 2185.9582936 test: 2179.5650413 best: 2179.5650413 (123) total: 2.03s remaining: 1.25s
124: learn: 2182.5192181 test: 2175.7575044 best: 2175.7575044 (124) total: 2.05s remaining: 1.23s
125: learn: 2179.1963665 test: 2172.0991268 best: 2172.0991268 (125) total: 2.06s remaining: 1.21s
126: learn: 2176.4729140 test: 2169.2681934 best: 2169.2681934 (126) total: 2.08s remaining: 1.2s
127: learn: 2172.9912503 test: 2165.6895479 best: 2165.6895479 (127) total: 2.1s remaining: 1.18s
128: learn: 2170.2288756 test: 2162.7636358 best: 2162.7636358 (128) total: 2.11s remaining: 1.16s

129: learn: 2166.7542717 test: 2159.1131163 best: 2159.1131163 (129) total: 2.13s remaining: 1.14s
130: learn: 2163.6941481 test: 2156.1065060 best: 2156.1065060 (130) total: 2.14s remaining: 1.13s
131: learn: 2159.8870108 test: 2152.3470584 best: 2152.3470584 (131) total: 2.16s remaining: 1.11s
132: learn: 2156.9337147 test: 2149.0463979 best: 2149.0463979 (132) total: 2.17s remaining: 1.09s
133: learn: 2154.3643238 test: 2146.5255734 best: 2146.5255734 (133) total: 2.19s remaining: 1.08s
134: learn: 2151.2626366 test: 2143.4072855 best: 2143.4072855 (134) total: 2.2s remaining: 1.06s
135: learn: 2148.4422482 test: 2140.4602382 best: 2140.4602382 (135) total: 2.22s remaining: 1.04s
136: learn: 2145.5584530 test: 2137.4133462 best: 2137.4133462 (136) total: 2.23s remaining: 1.03s
137: learn: 2143.3292519 test: 2135.2477735 best: 2135.2477735 (137) total: 2.25s remaining: 1.01s
138: learn: 2140.9505075 test: 2132.8371217 best: 2132.8371217 (138) total: 2.26s remaining: 993ms
139: learn: 2138.3675229 test: 2130.3708194 best: 2130.3708194 (139) total: 2.28s remaining: 977ms
140: learn: 2135.9246410 test: 2127.8341385 best: 2127.8341385 (140) total: 2.29s remaining: 960ms
141: learn: 2133.4362662 test: 2125.2845107 best: 2125.2845107 (141) total: 2.31s remaining: 944ms
142: learn: 2130.9202444 test: 2122.7171841 best: 2122.7171841 (142) total: 2.33s remaining: 928ms
143: learn: 2128.1505231 test: 2119.8123006 best: 2119.8123006 (143) total: 2.34s remaining: 911ms
144: learn: 2125.8452436 test: 2117.4348770 best: 2117.4348770 (144) total: 2.36s remaining: 894ms
145: learn: 2123.4120918 test: 2114.9987655 best: 2114.9987655 (145) total: 2.37s remaining: 878ms
146: learn: 2121.2900603 test: 2112.9969400 best: 2112.9969400 (146) total: 2.39s remaining: 861ms
147: learn: 2119.1920463 test: 2110.9786649 best: 2110.9786649 (147) total: 2.4s remaining: 844ms
148: learn: 2117.2901424 test: 2109.0392611 best: 2109.0392611 (148) total: 2.42s remaining: 828ms
149: learn: 2115.0430334 test: 2106.7899016 best: 2106.7899016 (149) total: 2.44s remaining: 813ms
150: learn: 2112.9321250 test: 2104.6826715 best: 2104.6826715 (150) total: 2.46s remaining: 798ms
151: learn: 2111.0902410 test: 2102.7272021 best: 2102.7272021 (151) total: 2.48s remaining: 782ms
152: learn: 2108.5918901 test: 2100.2164269 best: 2100.2164269 (152) total: 2.49s remaining: 765ms
153: learn: 2106.7234474 test: 2098.3884610 best: 2098.3884610 (153) total: 2.51s remaining: 749ms
154: learn: 2104.1191732 test: 2095.6796826 best: 2095.6796826 (154) total: 2.52s remaining: 733ms
155: learn: 2102.1265370 test: 2093.6379887 best: 2093.6379887 (155) total: 2.54s remaining: 717ms
156: learn: 2100.0017632 test: 2091.5040750 best: 2091.5040750 (156) total: 2.56s remaining: 701ms
157: learn: 2097.5235469 test: 2088.8196274 best: 2088.8196274 (157) total: 2.57s remaining: 684ms
158: learn: 2095.5548898 test: 2087.0317168 best: 2087.0317168 (158) total: 2.59s remaining: 667ms
159: learn: 2093.1956934 test: 2084.5221115 best: 2084.5221115 (159) total: 2.6s remaining: 650ms
160: learn: 2090.8562565 test: 2082.1862541 best: 2082.1862541 (160) total: 2.62s remaining: 634ms
161: learn: 2088.0648166 test: 2079.2994353 best: 2079.2994353 (161) total: 2.63s remaining: 618ms
162: learn: 2086.5025242 test: 2077.7308218 best: 2077.7308218 (162) total: 2.65s remaining: 601ms
163: learn: 2083.9201734 test: 2074.9725907 best: 2074.9725907 (163) total: 2.66s remaining: 584ms
164: learn: 2081.3362026 test: 2072.4194706 best: 2072.4194706 (164) total: 2.68s remaining: 568ms
165: learn: 2079.0452563 test: 2070.0328041 best: 2070.0328041 (165) total: 2.69s remaining: 551ms
166: learn: 2077.5035288 test: 2068.3816165 best: 2068.3816165 (166) total: 2.71s remaining: 536ms
167: learn: 2075.6992459 test: 2066.5594841 best: 2066.5594841 (167) total: 2.73s remaining: 519ms
168: learn: 2073.7256427 test: 2064.5759770 best: 2064.5759770 (168) total: 2.74s remaining: 503ms
169: learn: 2072.2171083 test: 2063.1343115 best: 2063.1343115 (169) total: 2.76s remaining: 486ms

170: learn: 2070.3528991 test: 2061.2606043 best: 2061.2606043 (170) total: 2.77s remaining: 470ms
171: learn: 2068.2153020 test: 2059.0492413 best: 2059.0492413 (171) total: 2.79s remaining: 454ms
172: learn: 2066.7350465 test: 2057.6299574 best: 2057.6299574 (172) total: 2.8s remaining: 437ms
173: learn: 2065.0760125 test: 2056.0807101 best: 2056.0807101 (173) total: 2.82s remaining: 421ms
174: learn: 2062.8181980 test: 2053.7148838 best: 2053.7148838 (174) total: 2.83s remaining: 405ms
175: learn: 2061.2570831 test: 2052.0960967 best: 2052.0960967 (175) total: 2.85s remaining: 388ms
176: learn: 2059.8380065 test: 2050.6502922 best: 2050.6502922 (176) total: 2.86s remaining: 372ms
177: learn: 2057.8145949 test: 2048.5647836 best: 2048.5647836 (177) total: 2.88s remaining: 356ms
178: learn: 2056.4913578 test: 2047.3237997 best: 2047.3237997 (178) total: 2.89s remaining: 339ms
179: learn: 2055.1908428 test: 2046.0461878 best: 2046.0461878 (179) total: 2.91s remaining: 323ms
180: learn: 2052.5859822 test: 2043.2782417 best: 2043.2782417 (180) total: 2.93s remaining: 307ms
181: learn: 2051.2894353 test: 2041.8704594 best: 2041.8704594 (181) total: 2.94s remaining: 291ms
182: learn: 2049.7479160 test: 2040.3113354 best: 2040.3113354 (182) total: 2.95s remaining: 274ms
183: learn: 2048.3741332 test: 2038.9067079 best: 2038.9067079 (183) total: 2.97s remaining: 258ms
184: learn: 2046.5850980 test: 2037.1314626 best: 2037.1314626 (184) total: 2.98s remaining: 242ms
185: learn: 2045.0918845 test: 2035.6852950 best: 2035.6852950 (185) total: 3s remaining: 226ms
186: learn: 2042.9683758 test: 2033.4703124 best: 2033.4703124 (186) total: 3.01s remaining: 210ms
187: learn: 2041.4999839 test: 2031.9642504 best: 2031.9642504 (187) total: 3.03s remaining: 193ms
188: learn: 2040.0586821 test: 2030.4283408 best: 2030.4283408 (188) total: 3.04s remaining: 177ms
189: learn: 2038.4549550 test: 2028.8835467 best: 2028.8835467 (189) total: 3.06s remaining: 161ms
190: learn: 2036.7879190 test: 2027.2328744 best: 2027.2328744 (190) total: 3.07s remaining: 145ms
191: learn: 2034.9466140 test: 2025.3811022 best: 2025.3811022 (191) total: 3.09s remaining: 129ms
192: learn: 2033.6650606 test: 2024.0062185 best: 2024.0062185 (192) total: 3.11s remaining: 113ms
193: learn: 2032.0261246 test: 2022.2425997 best: 2022.2425997 (193) total: 3.12s remaining: 96.6ms
194: learn: 2030.8312533 test: 2021.1084657 best: 2021.1084657 (194) total: 3.14s remaining: 80.4ms
195: learn: 2029.3537021 test: 2019.5829599 best: 2019.5829599 (195) total: 3.15s remaining: 64.3ms
196: learn: 2028.0978864 test: 2018.2675134 best: 2018.2675134 (196) total: 3.17s remaining: 48.2ms
197: learn: 2026.4463074 test: 2016.5247564 best: 2016.5247564 (197) total: 3.18s remaining: 32.1ms
198: learn: 2024.2323833 test: 2014.2035874 best: 2014.2035874 (198) total: 3.2s remaining: 16.1ms
199: learn: 2023.1237774 test: 2013.2270810 best: 2013.2270810 (199) total: 3.22s remaining: 0us

bestTest = 2013.227081

bestIteration = 199

42: loss: 2013.2270810 best: 1789.4563793 (41) total: 1m 33s remaining: 1m 54s
0: learn: 6410.7170174 test: 6438.8265902 best: 6438.8265902 (0) total: 17ms remaining: 3.38s
1: learn: 5902.8401110 test: 5929.6255821 best: 5929.6255821 (1) total: 33.8ms remaining: 3.34s
2: learn: 5454.8661179 test: 5481.8836832 best: 5481.8836832 (2) total: 50ms remaining: 3.29s
3: learn: 5062.7098707 test: 5090.2329127 best: 5090.2329127 (3) total: 66.1ms remaining: 3.24s
4: learn: 4707.5942479 test: 4734.5584446 best: 4734.5584446 (4) total: 85.6ms remaining: 3.34s
5: learn: 4396.2675061 test: 4423.1820465 best: 4423.1820465 (5) total: 101ms remaining: 3.27s

6: learn: 4126.1860964 test: 4152.2154026 best: 4152.2154026 (6) total: 117ms remaining: 3.24s
7: learn: 3885.1100505 test: 3910.1253251 best: 3910.1253251 (7) total: 133ms remaining: 3.19s
8: learn: 3673.3141554 test: 3696.4636046 best: 3696.4636046 (8) total: 149ms remaining: 3.16s
9: learn: 3488.8062780 test: 3510.5558418 best: 3510.5558418 (9) total: 168ms remaining: 3.19s
10: learn: 3330.2359180 test: 3351.0553706 best: 3351.0553706 (10) total: 185ms remaining: 3.18s
11: learn: 3189.3352467 test: 3209.0929122 best: 3209.0929122 (11) total: 201ms remaining: 3.15s
12: learn: 3072.5043541 test: 3090.4268174 best: 3090.4268174 (12) total: 217ms remaining: 3.12s
13: learn: 2961.9890109 test: 2978.3346868 best: 2978.3346868 (13) total: 232ms remaining: 3.09s
14: learn: 2871.3293175 test: 2886.0319709 best: 2886.0319709 (14) total: 248ms remaining: 3.06s
15: learn: 2792.1946720 test: 2804.4734048 best: 2804.4734048 (15) total: 264ms remaining: 3.04s
16: learn: 2723.6963780 test: 2735.0705883 best: 2735.0705883 (16) total: 284ms remaining: 3.05s
17: learn: 2663.3629715 test: 2672.6990545 best: 2672.6990545 (17) total: 299ms remaining: 3.02s
18: learn: 2609.3302550 test: 2617.9853895 best: 2617.9853895 (18) total: 315ms remaining: 3s
19: learn: 2562.9751918 test: 2570.8466483 best: 2570.8466483 (19) total: 331ms remaining: 2.98s
20: learn: 2516.2393049 test: 2522.5207423 best: 2522.5207423 (20) total: 346ms remaining: 2.95s
21: learn: 2476.8336895 test: 2481.7239833 best: 2481.7239833 (21) total: 362ms remaining: 2.92s
22: learn: 2440.6671371 test: 2444.4989730 best: 2444.4989730 (22) total: 379ms remaining: 2.92s
23: learn: 2407.3454311 test: 2409.8436770 best: 2409.8436770 (23) total: 395ms remaining: 2.9s
24: learn: 2378.7782414 test: 2380.2136517 best: 2380.2136517 (24) total: 411ms remaining: 2.88s
25: learn: 2354.9270365 test: 2355.1131784 best: 2355.1131784 (25) total: 426ms remaining: 2.85s
26: learn: 2330.1192840 test: 2329.7474327 best: 2329.7474327 (26) total: 442ms remaining: 2.83s
27: learn: 2309.1744167 test: 2308.6775289 best: 2308.6775289 (27) total: 458ms remaining: 2.81s
28: learn: 2290.1630873 test: 2289.3479131 best: 2289.3479131 (28) total: 476ms remaining: 2.81s
29: learn: 2271.5227367 test: 2269.5360302 best: 2269.5360302 (29) total: 491ms remaining: 2.78s
30: learn: 2255.4828191 test: 2252.8412053 best: 2252.8412053 (30) total: 508ms remaining: 2.77s
31: learn: 2241.6085671 test: 2238.4616516 best: 2238.4616516 (31) total: 523ms remaining: 2.75s
32: learn: 2226.6065518 test: 2223.0597344 best: 2223.0597344 (32) total: 539ms remaining: 2.73s
33: learn: 2213.3592404 test: 2209.0133489 best: 2209.0133489 (33) total: 554ms remaining: 2.71s
34: learn: 2200.3338250 test: 2194.7476530 best: 2194.7476530 (34) total: 572ms remaining: 2.7s
35: learn: 2188.4229637 test: 2182.6484515 best: 2182.6484515 (35) total: 587ms remaining: 2.67s
36: learn: 2177.7744924 test: 2172.0347905 best: 2172.0347905 (36) total: 602ms remaining: 2.65s
37: learn: 2167.8975663 test: 2162.1377149 best: 2162.1377149 (37) total: 617ms remaining: 2.63s
38: learn: 2158.6127302 test: 2152.5005360 best: 2152.5005360 (38) total: 632ms remaining: 2.61s
39: learn: 2151.3213603 test: 2145.2082945 best: 2145.2082945 (39) total: 647ms remaining: 2.59s
40: learn: 2141.9137708 test: 2134.7227117 best: 2134.7227117 (40) total: 662ms remaining: 2.57s
41: learn: 2133.3721954 test: 2126.1187472 best: 2126.1187472 (41) total: 681ms remaining: 2.56s
42: learn: 2124.2921787 test: 2117.0244808 best: 2117.0244808 (42) total: 696ms remaining: 2.54s
43: learn: 2116.5029313 test: 2109.2860966 best: 2109.2860966 (43) total: 711ms remaining: 2.52s
44: learn: 2108.3804419 test: 2101.2312746 best: 2101.2312746 (44) total: 726ms remaining: 2.5s
45: learn: 2102.5113692 test: 2095.5582011 best: 2095.5582011 (45) total: 741ms remaining: 2.48s
46: learn: 2094.8041317 test: 2087.9621276 best: 2087.9621276 (46) total: 756ms remaining: 2.46s
47: learn: 2089.4057093 test: 2082.0261601 best: 2082.0261601 (47) total: 773ms remaining: 2.45s

48: learn: 2081.8707894 test: 2074.5850406 best: 2074.5850406 (48) total: 789ms remaining: 2.43s
49: learn: 2076.5114306 test: 2068.9794038 best: 2068.9794038 (49) total: 804ms remaining: 2.41s
50: learn: 2069.5245398 test: 2061.6185288 best: 2061.6185288 (50) total: 819ms remaining: 2.39s
51: learn: 2062.9039713 test: 2054.8386733 best: 2054.8386733 (51) total: 835ms remaining: 2.38s
52: learn: 2054.2259235 test: 2045.6218255 best: 2045.6218255 (52) total: 851ms remaining: 2.36s
53: learn: 2049.0407286 test: 2040.7113721 best: 2040.7113721 (53) total: 868ms remaining: 2.35s
54: learn: 2044.2010935 test: 2036.1590192 best: 2036.1590192 (54) total: 883ms remaining: 2.33s
55: learn: 2037.6231376 test: 2029.2876902 best: 2029.2876902 (55) total: 899ms remaining: 2.31s
56: learn: 2033.6343183 test: 2024.8976849 best: 2024.8976849 (56) total: 914ms remaining: 2.29s
57: learn: 2028.7126168 test: 2020.2568229 best: 2020.2568229 (57) total: 929ms remaining: 2.27s
58: learn: 2023.2766103 test: 2014.2206415 best: 2014.2206415 (58) total: 945ms remaining: 2.26s
59: learn: 2018.8027722 test: 2009.6125324 best: 2009.6125324 (59) total: 964ms remaining: 2.25s
60: learn: 2013.2994473 test: 2003.8650044 best: 2003.8650044 (60) total: 980ms remaining: 2.23s
61: learn: 2009.7279266 test: 2000.6340036 best: 2000.6340036 (61) total: 997ms remaining: 2.22s
62: learn: 2004.3741714 test: 1995.0744943 best: 1995.0744943 (62) total: 1.01s remaining: 2.2s
63: learn: 2000.3201818 test: 1991.2277027 best: 1991.2277027 (63) total: 1.03s remaining: 2.19s
64: learn: 1997.1713468 test: 1988.4745190 best: 1988.4745190 (64) total: 1.04s remaining: 2.17s
65: learn: 1992.8994331 test: 1984.0816447 best: 1984.0816447 (65) total: 1.06s remaining: 2.15s
66: learn: 1989.6670157 test: 1980.7205984 best: 1980.7205984 (66) total: 1.07s remaining: 2.13s
67: learn: 1986.6565390 test: 1977.8553901 best: 1977.8553901 (67) total: 1.09s remaining: 2.12s
68: learn: 1982.0178024 test: 1973.0600482 best: 1973.0600482 (68) total: 1.11s remaining: 2.1s
69: learn: 1979.5096745 test: 1970.9902811 best: 1970.9902811 (69) total: 1.12s remaining: 2.08s
70: learn: 1976.0986270 test: 1967.6240299 best: 1967.6240299 (70) total: 1.14s remaining: 2.07s
71: learn: 1971.9140000 test: 1963.2643199 best: 1963.2643199 (71) total: 1.15s remaining: 2.05s
72: learn: 1967.2511080 test: 1958.4410022 best: 1958.4410022 (72) total: 1.17s remaining: 2.04s
73: learn: 1964.2754463 test: 1955.0191563 best: 1955.0191563 (73) total: 1.19s remaining: 2.03s
74: learn: 1961.8054257 test: 1952.8460530 best: 1952.8460530 (74) total: 1.2s remaining: 2.01s
75: learn: 1959.4854931 test: 1950.7992802 best: 1950.7992802 (75) total: 1.22s remaining: 1.99s
76: learn: 1955.9936218 test: 1947.2772157 best: 1947.2772157 (76) total: 1.23s remaining: 1.97s
77: learn: 1953.7830877 test: 1944.8551197 best: 1944.8551197 (77) total: 1.25s remaining: 1.95s
78: learn: 1949.8958552 test: 1940.7626899 best: 1940.7626899 (78) total: 1.27s remaining: 1.94s
79: learn: 1946.4049359 test: 1937.1503200 best: 1937.1503200 (79) total: 1.28s remaining: 1.92s
80: learn: 1944.0974783 test: 1935.2302717 best: 1935.2302717 (80) total: 1.3s remaining: 1.91s
81: learn: 1942.2283494 test: 1933.4316054 best: 1933.4316054 (81) total: 1.31s remaining: 1.89s
82: learn: 1939.7556412 test: 1930.8297775 best: 1930.8297775 (82) total: 1.32s remaining: 1.87s
83: learn: 1936.4135048 test: 1927.4340227 best: 1927.4340227 (83) total: 1.34s remaining: 1.85s
84: learn: 1934.0414466 test: 1925.0513857 best: 1925.0513857 (84) total: 1.36s remaining: 1.84s
85: learn: 1931.7537272 test: 1922.8043924 best: 1922.8043924 (85) total: 1.38s remaining: 1.82s
86: learn: 1929.5317132 test: 1920.6023189 best: 1920.6023189 (86) total: 1.39s remaining: 1.81s
87: learn: 1926.7527181 test: 1917.8706596 best: 1917.8706596 (87) total: 1.41s remaining: 1.79s
88: learn: 1925.0934010 test: 1916.4280156 best: 1916.4280156 (88) total: 1.42s remaining: 1.77s

89: learn: 1923.5487013 test: 1914.5015200 best: 1914.5015200 (89) total: 1.44s remaining: 1.75s
90: learn: 1921.6330858 test: 1912.5642843 best: 1912.5642843 (90) total: 1.45s remaining: 1.74s
91: learn: 1919.3911783 test: 1910.3497833 best: 1910.3497833 (91) total: 1.47s remaining: 1.72s
92: learn: 1917.1608804 test: 1908.0776566 best: 1908.0776566 (92) total: 1.48s remaining: 1.7s
93: learn: 1914.9315115 test: 1905.9480733 best: 1905.9480733 (93) total: 1.5s remaining: 1.69s
94: learn: 1912.7127521 test: 1903.6836004 best: 1903.6836004 (94) total: 1.51s remaining: 1.67s
95: learn: 1910.9118230 test: 1901.7544711 best: 1901.7544711 (95) total: 1.52s remaining: 1.65s
96: learn: 1909.4290973 test: 1900.4234314 best: 1900.4234314 (96) total: 1.54s remaining: 1.63s
97: learn: 1908.1749921 test: 1899.5412883 best: 1899.5412883 (97) total: 1.55s remaining: 1.62s
98: learn: 1906.4956274 test: 1897.9512310 best: 1897.9512310 (98) total: 1.57s remaining: 1.6s
99: learn: 1902.9667215 test: 1894.2522294 best: 1894.2522294 (99) total: 1.58s remaining: 1.58s
100: learn: 1900.4665013 test: 1891.5982371 best: 1891.5982371 (100) total: 1.6s remaining: 1.57s
101: learn: 1899.2874046 test: 1890.4866973 best: 1890.4866973 (101) total: 1.61s remaining: 1.55s
102: learn: 1897.9494928 test: 1889.0460542 best: 1889.0460542 (102) total: 1.63s remaining: 1.53s
103: learn: 1895.8806953 test: 1886.9867835 best: 1886.9867835 (103) total: 1.64s remaining: 1.52s
104: learn: 1894.6122134 test: 1885.6242352 best: 1885.6242352 (104) total: 1.66s remaining: 1.5s
105: learn: 1892.6515181 test: 1883.6654009 best: 1883.6654009 (105) total: 1.67s remaining: 1.49s
106: learn: 1889.7536558 test: 1880.6163688 best: 1880.6163688 (106) total: 1.69s remaining: 1.47s
107: learn: 1888.4198676 test: 1879.4599489 best: 1879.4599489 (107) total: 1.71s remaining: 1.45s
108: learn: 1887.2970826 test: 1878.5961118 best: 1878.5961118 (108) total: 1.72s remaining: 1.43s
109: learn: 1886.0081791 test: 1877.3136537 best: 1877.3136537 (109) total: 1.73s remaining: 1.42s
110: learn: 1884.9024309 test: 1876.1910155 best: 1876.1910155 (110) total: 1.75s remaining: 1.4s
111: learn: 1882.5007535 test: 1873.7133979 best: 1873.7133979 (111) total: 1.77s remaining: 1.39s
112: learn: 1881.5065732 test: 1872.7183125 best: 1872.7183125 (112) total: 1.78s remaining: 1.37s
113: learn: 1879.7703449 test: 1870.6333230 best: 1870.6333230 (113) total: 1.79s remaining: 1.35s
114: learn: 1878.3286485 test: 1869.3479461 best: 1869.3479461 (114) total: 1.81s remaining: 1.34s
115: learn: 1875.9454063 test: 1867.2520832 best: 1867.2520832 (115) total: 1.82s remaining: 1.32s
116: learn: 1873.5327067 test: 1864.7933396 best: 1864.7933396 (116) total: 1.84s remaining: 1.3s
117: learn: 1872.2779158 test: 1863.6559484 best: 1863.6559484 (117) total: 1.85s remaining: 1.29s
118: learn: 1870.6364060 test: 1861.9128223 best: 1861.9128223 (118) total: 1.87s remaining: 1.27s
119: learn: 1869.5122698 test: 1861.4514251 best: 1861.4514251 (119) total: 1.89s remaining: 1.26s
120: learn: 1867.2410819 test: 1859.1421938 best: 1859.1421938 (120) total: 1.9s remaining: 1.24s
121: learn: 1865.1323162 test: 1857.1582561 best: 1857.1582561 (121) total: 1.92s remaining: 1.22s
122: learn: 1863.8515086 test: 1855.9420645 best: 1855.9420645 (122) total: 1.93s remaining: 1.21s
123: learn: 1862.6048338 test: 1854.7011457 best: 1854.7011457 (123) total: 1.95s remaining: 1.19s
124: learn: 1861.8190263 test: 1853.8005882 best: 1853.8005882 (124) total: 1.96s remaining: 1.18s
125: learn: 1860.7127406 test: 1852.8855075 best: 1852.8855075 (125) total: 1.98s remaining: 1.16s
126: learn: 1859.8083130 test: 1852.2861139 best: 1852.2861139 (126) total: 1.99s remaining: 1.15s
127: learn: 1858.9948256 test: 1851.3992150 best: 1851.3992150 (127) total: 2.01s remaining: 1.13s
128: learn: 1857.8452779 test: 1850.3816018 best: 1850.3816018 (128) total: 2.02s remaining: 1.11s
129: learn: 1856.4255168 test: 1849.3568154 best: 1849.3568154 (129) total: 2.04s remaining: 1.1s

130: learn: 1854.2498749 test: 1847.2682593 best: 1847.2682593 (130) total: 2.06s remaining: 1.08s
131: learn: 1852.9182261 test: 1845.9545487 best: 1845.9545487 (131) total: 2.07s remaining: 1.07s
132: learn: 1851.5380497 test: 1844.5354378 best: 1844.5354378 (132) total: 2.09s remaining: 1.05s
133: learn: 1850.6577791 test: 1843.6978984 best: 1843.6978984 (133) total: 2.1s remaining: 1.04s
134: learn: 1849.9231145 test: 1843.1726904 best: 1843.1726904 (134) total: 2.12s remaining: 1.02s
135: learn: 1848.7874496 test: 1842.0978153 best: 1842.0978153 (135) total: 2.13s remaining: 1s
136: learn: 1847.3956742 test: 1840.6824130 best: 1840.6824130 (136) total: 2.16s remaining: 995ms
137: learn: 1845.3927383 test: 1839.1447837 best: 1839.1447837 (137) total: 2.18s remaining: 980ms
138: learn: 1844.4020302 test: 1838.0774869 best: 1838.0774869 (138) total: 2.2s remaining: 965ms
139: learn: 1843.4405550 test: 1837.1483577 best: 1837.1483577 (139) total: 2.21s remaining: 948ms
140: learn: 1841.5008730 test: 1835.1065523 best: 1835.1065523 (140) total: 2.23s remaining: 932ms
141: learn: 1840.6475677 test: 1834.2578511 best: 1834.2578511 (141) total: 2.24s remaining: 916ms
142: learn: 1839.7798188 test: 1833.4573504 best: 1833.4573504 (142) total: 2.26s remaining: 900ms
143: learn: 1838.2638249 test: 1832.2922060 best: 1832.2922060 (143) total: 2.27s remaining: 884ms
144: learn: 1837.2604682 test: 1831.4200107 best: 1831.4200107 (144) total: 2.29s remaining: 867ms
145: learn: 1836.2689188 test: 1830.5896101 best: 1830.5896101 (145) total: 2.3s remaining: 851ms
146: learn: 1835.3752398 test: 1829.8578257 best: 1829.8578257 (146) total: 2.31s remaining: 835ms
147: learn: 1834.6433096 test: 1829.2958899 best: 1829.2958899 (147) total: 2.33s remaining: 818ms
148: learn: 1834.0234662 test: 1828.7243212 best: 1828.7243212 (148) total: 2.34s remaining: 802ms
149: learn: 1833.2925955 test: 1828.0033619 best: 1828.0033619 (149) total: 2.36s remaining: 786ms
150: learn: 1832.4178421 test: 1826.9790176 best: 1826.9790176 (150) total: 2.37s remaining: 770ms
151: learn: 1831.6091568 test: 1826.5047903 best: 1826.5047903 (151) total: 2.39s remaining: 755ms
152: learn: 1830.4012486 test: 1825.2878311 best: 1825.2878311 (152) total: 2.4s remaining: 739ms
153: learn: 1829.3272014 test: 1824.3827134 best: 1824.3827134 (153) total: 2.42s remaining: 723ms
154: learn: 1827.7081747 test: 1822.6837207 best: 1822.6837207 (154) total: 2.44s remaining: 707ms
155: learn: 1827.0072567 test: 1821.8639173 best: 1821.8639173 (155) total: 2.45s remaining: 692ms
156: learn: 1825.7759853 test: 1820.7916801 best: 1820.7916801 (156) total: 2.47s remaining: 676ms
157: learn: 1825.0420783 test: 1820.1043905 best: 1820.1043905 (157) total: 2.48s remaining: 660ms
158: learn: 1823.7705417 test: 1818.8934640 best: 1818.8934640 (158) total: 2.5s remaining: 644ms
159: learn: 1822.4521237 test: 1818.0257840 best: 1818.0257840 (159) total: 2.51s remaining: 628ms
160: learn: 1821.2388006 test: 1817.0952764 best: 1817.0952764 (160) total: 2.53s remaining: 612ms
161: learn: 1820.4185441 test: 1816.3202666 best: 1816.3202666 (161) total: 2.54s remaining: 596ms
162: learn: 1819.9031323 test: 1815.8796269 best: 1815.8796269 (162) total: 2.56s remaining: 581ms
163: learn: 1819.0690979 test: 1815.3906827 best: 1815.3906827 (163) total: 2.57s remaining: 565ms
164: learn: 1817.9604943 test: 1814.2439184 best: 1814.2439184 (164) total: 2.59s remaining: 549ms
165: learn: 1817.3530832 test: 1813.6591752 best: 1813.6591752 (165) total: 2.6s remaining: 533ms
166: learn: 1816.1049005 test: 1812.7246915 best: 1812.7246915 (166) total: 2.62s remaining: 517ms
167: learn: 1815.5303817 test: 1812.2961604 best: 1812.2961604 (167) total: 2.63s remaining: 501ms
168: learn: 1814.9764194 test: 1811.8165764 best: 1811.8165764 (168) total: 2.65s remaining: 486ms
169: learn: 1814.1589272 test: 1811.1468339 best: 1811.1468339 (169) total: 2.66s remaining: 470ms
170: learn: 1813.2401902 test: 1810.2000003 best: 1810.2000003 (170) total: 2.68s remaining: 454ms
171: learn: 1812.2548222 test: 1809.4268475 best: 1809.4268475 (171) total: 2.69s remaining: 438ms

171: learn: 1812.3549808 test: 1809.4029475 best: 1809.4029475 (171) total: 2.69s remaining: 438ms
172: learn: 1811.0712686 test: 1808.2020847 best: 1808.2020847 (172) total: 2.71s remaining: 423ms
173: learn: 1809.8447341 test: 1806.8156058 best: 1806.8156058 (173) total: 2.72s remaining: 407ms
174: learn: 1809.0168742 test: 1806.3380080 best: 1806.3380080 (174) total: 2.74s remaining: 391ms
175: learn: 1808.0333648 test: 1805.6981892 best: 1805.6981892 (175) total: 2.75s remaining: 376ms
176: learn: 1806.6833802 test: 1804.7305258 best: 1804.7305258 (176) total: 2.77s remaining: 360ms
177: learn: 1805.4286054 test: 1803.7492635 best: 1803.7492635 (177) total: 2.78s remaining: 344ms
178: learn: 1804.0357941 test: 1802.1634487 best: 1802.1634487 (178) total: 2.8s remaining: 329ms
179: learn: 1803.2822886 test: 1801.5092723 best: 1801.5092723 (179) total: 2.81s remaining: 313ms
180: learn: 1802.1369478 test: 1800.3232267 best: 1800.3232267 (180) total: 2.83s remaining: 297ms
181: learn: 1801.4130879 test: 1799.6033063 best: 1799.6033063 (181) total: 2.84s remaining: 281ms
182: learn: 1800.7811243 test: 1799.0317551 best: 1799.0317551 (182) total: 2.86s remaining: 266ms
183: learn: 1799.8245857 test: 1798.0051689 best: 1798.0051689 (183) total: 2.87s remaining: 250ms
184: learn: 1799.3014063 test: 1797.4486639 best: 1797.4486639 (184) total: 2.89s remaining: 234ms
185: learn: 1798.8031306 test: 1797.0263128 best: 1797.0263128 (185) total: 2.9s remaining: 218ms
186: learn: 1797.5008786 test: 1795.7523419 best: 1795.7523419 (186) total: 2.92s remaining: 203ms
187: learn: 1796.7583769 test: 1795.0409912 best: 1795.0409912 (187) total: 2.93s remaining: 187ms
188: learn: 1796.2105784 test: 1794.6407153 best: 1794.6407153 (188) total: 2.95s remaining: 172ms
189: learn: 1795.6065268 test: 1794.0760896 best: 1794.0760896 (189) total: 2.97s remaining: 156ms
190: learn: 1794.8719171 test: 1793.3258460 best: 1793.3258460 (190) total: 2.98s remaining: 140ms
191: learn: 1793.9321868 test: 1792.5420262 best: 1792.5420262 (191) total: 3s remaining: 125ms
192: learn: 1793.0035559 test: 1791.9371278 best: 1791.9371278 (192) total: 3.01s remaining: 109ms
193: learn: 1792.3838382 test: 1791.3502571 best: 1791.3502571 (193) total: 3.03s remaining: 93.8ms
194: learn: 1791.8489333 test: 1790.8075124 best: 1790.8075124 (194) total: 3.05s remaining: 78.1ms
195: learn: 1791.3941469 test: 1790.4719910 best: 1790.4719910 (195) total: 3.06s remaining: 62.5ms
196: learn: 1790.6544806 test: 1789.8752643 best: 1789.8752643 (196) total: 3.08s remaining: 46.8ms
197: learn: 1789.5139398 test: 1788.9943660 best: 1788.9943660 (197) total: 3.09s remaining: 31.2ms
198: learn: 1788.2339474 test: 1787.7514545 best: 1787.7514545 (198) total: 3.11s remaining: 15.6ms
199: learn: 1787.6884854 test: 1787.3864554 best: 1787.3864554 (199) total: 3.13s remaining: 0us

bestTest = 1787.386455

bestIteration = 199

43: loss: 1787.3864554 best: 1787.3864554 (43) total: 1m 36s remaining: 1m 53s
0: learn: 6809.5571969 test: 6837.6609651 best: 6837.6609651 (0) total: 18.5ms remaining: 3.69s
1: learn: 6643.1507909 test: 6670.9025374 best: 6670.9025374 (1) total: 35.5ms remaining: 3.52s
2: learn: 6482.8101375 test: 6510.6966188 best: 6510.6966188 (2) total: 51.6ms remaining: 3.39s
3: learn: 6329.3751281 test: 6357.6116777 best: 6357.6116777 (3) total: 67.4ms remaining: 3.3s
4: learn: 6179.8953713 test: 6208.3324913 best: 6208.3324913 (4) total: 83.8ms remaining: 3.27s
5: learn: 6033.8706363 test: 6062.3585793 best: 6062.3585793 (5) total: 105ms remaining: 3.38s
6: learn: 5893.9766859 test: 5922.5597840 best: 5922.5597840 (6) total: 121ms remaining: 3.32s
7: learn: 5758.5959457 test: 5786.9170325 best: 5786.9170325 (7) total: 137ms remaining: 3.28s

8: learn: 5626.9907262 test: 5655.0975720 best: 5655.0975720 (8) total: 153ms remaining: 3.25s
9: learn: 5501.6131882 test: 5529.7317017 best: 5529.7317017 (9) total: 170ms remaining: 3.23s
10: learn: 5380.2009017 test: 5408.2956219 best: 5408.2956219 (10) total: 187ms remaining: 3.21s
11: learn: 5262.6701039 test: 5290.7965319 best: 5290.7965319 (11) total: 206ms remaining: 3.23s
12: learn: 5149.1890134 test: 5177.2062981 best: 5177.2062981 (12) total: 223ms remaining: 3.21s
13: learn: 5039.8875300 test: 5067.8280500 best: 5067.8280500 (13) total: 239ms remaining: 3.18s
14: learn: 4934.4382484 test: 4962.3210113 best: 4962.3210113 (14) total: 255ms remaining: 3.14s
15: learn: 4832.9940303 test: 4860.5304964 best: 4860.5304964 (15) total: 271ms remaining: 3.12s
16: learn: 4734.4054108 test: 4761.6629870 best: 4761.6629870 (16) total: 287ms remaining: 3.09s
17: learn: 4640.0010390 test: 4666.8587806 best: 4666.8587806 (17) total: 308ms remaining: 3.11s
18: learn: 4549.9382713 test: 4576.4928539 best: 4576.4928539 (18) total: 324ms remaining: 3.08s
19: learn: 4462.2460464 test: 4488.6554217 best: 4488.6554217 (19) total: 339ms remaining: 3.05s
20: learn: 4376.8736761 test: 4402.9110322 best: 4402.9110322 (20) total: 354ms remaining: 3.02s
21: learn: 4294.9668512 test: 4320.6519551 best: 4320.6519551 (21) total: 370ms remaining: 3s
22: learn: 4214.5999353 test: 4240.3413765 best: 4240.3413765 (22) total: 387ms remaining: 2.98s
23: learn: 4137.7828813 test: 4163.4843485 best: 4163.4843485 (23) total: 405ms remaining: 2.97s
24: learn: 4064.9454104 test: 4090.2381504 best: 4090.2381504 (24) total: 423ms remaining: 2.96s
25: learn: 3993.6837771 test: 4018.4365116 best: 4018.4365116 (25) total: 442ms remaining: 2.96s
26: learn: 3924.4664594 test: 3949.0946907 best: 3949.0946907 (26) total: 458ms remaining: 2.94s
27: learn: 3860.9302879 test: 3885.1069674 best: 3885.1069674 (27) total: 474ms remaining: 2.91s
28: learn: 3797.5896271 test: 3821.3195227 best: 3821.3195227 (28) total: 491ms remaining: 2.9s
29: learn: 3736.7736382 test: 3759.9546316 best: 3759.9546316 (29) total: 512ms remaining: 2.9s
30: learn: 3677.9894252 test: 3700.9697384 best: 3700.9697384 (30) total: 528ms remaining: 2.88s
31: learn: 3620.8639624 test: 3643.3748072 best: 3643.3748072 (31) total: 545ms remaining: 2.86s
32: learn: 3567.8566619 test: 3590.0770152 best: 3590.0770152 (32) total: 561ms remaining: 2.84s
33: learn: 3515.8468097 test: 3537.5872494 best: 3537.5872494 (33) total: 577ms remaining: 2.82s
34: learn: 3465.7869308 test: 3486.6871293 best: 3486.6871293 (34) total: 592ms remaining: 2.79s
35: learn: 3417.7529053 test: 3438.2894344 best: 3438.2894344 (35) total: 609ms remaining: 2.77s
36: learn: 3371.1431849 test: 3391.1788062 best: 3391.1788062 (36) total: 625ms remaining: 2.75s
37: learn: 3327.7536932 test: 3347.5008487 best: 3347.5008487 (37) total: 641ms remaining: 2.73s
38: learn: 3283.6431295 test: 3302.7510357 best: 3302.7510357 (38) total: 656ms remaining: 2.71s
39: learn: 3242.7566838 test: 3261.0879579 best: 3261.0879579 (39) total: 671ms remaining: 2.68s
40: learn: 3203.8256945 test: 3221.8981986 best: 3221.8981986 (40) total: 687ms remaining: 2.66s
41: learn: 3165.1673949 test: 3182.6791046 best: 3182.6791046 (41) total: 708ms remaining: 2.66s
42: learn: 3130.3493382 test: 3147.4229102 best: 3147.4229102 (42) total: 723ms remaining: 2.64s
43: learn: 3095.9980180 test: 3112.4860317 best: 3112.4860317 (43) total: 739ms remaining: 2.62s
44: learn: 3062.8159371 test: 3078.7419104 best: 3078.7419104 (44) total: 756ms remaining: 2.6s
45: learn: 3030.5827711 test: 3045.9317940 best: 3045.9317940 (45) total: 773ms remaining: 2.59s
46: learn: 3000.4440906 test: 3015.4844702 best: 3015.4844702 (46) total: 789ms remaining: 2.57s
47: learn: 2970.5552510 test: 2985.2231190 best: 2985.2231190 (47) total: 809ms remaining: 2.56s
48: learn: 2942.2486068 test: 2956.5636158 best: 2956.5636158 (48) total: 825ms remaining: 2.54s

49: learn: 2914.7848248 test: 2928.9490416 best: 2928.9490416 (49) total: 842ms remaining: 2.53s
50: learn: 2889.2625179 test: 2903.1667117 best: 2903.1667117 (50) total: 858ms remaining: 2.51s
51: learn: 2863.3747870 test: 2876.6094728 best: 2876.6094728 (51) total: 874ms remaining: 2.49s
52: learn: 2838.8356694 test: 2851.5139051 best: 2851.5139051 (52) total: 895ms remaining: 2.48s
53: learn: 2816.3121908 test: 2828.7253423 best: 2828.7253423 (53) total: 913ms remaining: 2.47s
54: learn: 2793.8210366 test: 2805.7283318 best: 2805.7283318 (54) total: 929ms remaining: 2.45s
55: learn: 2772.4987678 test: 2783.6671492 best: 2783.6671492 (55) total: 945ms remaining: 2.43s
56: learn: 2751.6345521 test: 2762.2791033 best: 2762.2791033 (56) total: 960ms remaining: 2.41s
57: learn: 2731.9210744 test: 2742.3933550 best: 2742.3933550 (57) total: 977ms remaining: 2.39s
58: learn: 2712.0205323 test: 2721.9530280 best: 2721.9530280 (58) total: 998ms remaining: 2.38s
59: learn: 2693.0342309 test: 2702.4258875 best: 2702.4258875 (59) total: 1.01s remaining: 2.36s
60: learn: 2674.4944303 test: 2683.3343104 best: 2683.3343104 (60) total: 1.03s remaining: 2.35s
61: learn: 2657.5434674 test: 2666.1239270 best: 2666.1239270 (61) total: 1.05s remaining: 2.33s
62: learn: 2639.8455057 test: 2648.0170364 best: 2648.0170364 (62) total: 1.06s remaining: 2.31s
63: learn: 2624.3390331 test: 2632.2668006 best: 2632.2668006 (63) total: 1.08s remaining: 2.29s
64: learn: 2609.0046257 test: 2616.3517366 best: 2616.3517366 (64) total: 1.1s remaining: 2.28s
65: learn: 2594.5783546 test: 2601.5029133 best: 2601.5029133 (65) total: 1.11s remaining: 2.27s
66: learn: 2579.8004583 test: 2586.3055498 best: 2586.3055498 (66) total: 1.13s remaining: 2.25s
67: learn: 2566.1189489 test: 2572.2121996 best: 2572.2121996 (67) total: 1.15s remaining: 2.23s
68: learn: 2553.1751911 test: 2559.1552027 best: 2559.1552027 (68) total: 1.16s remaining: 2.21s
69: learn: 2538.8036129 test: 2544.1910762 best: 2544.1910762 (69) total: 1.18s remaining: 2.19s
70: learn: 2526.1877900 test: 2531.0932514 best: 2531.0932514 (70) total: 1.2s remaining: 2.19s
71: learn: 2513.8522671 test: 2518.3651847 best: 2518.3651847 (71) total: 1.22s remaining: 2.17s
72: learn: 2502.1801246 test: 2506.4639373 best: 2506.4639373 (72) total: 1.23s remaining: 2.15s
73: learn: 2489.9978701 test: 2493.9140300 best: 2493.9140300 (73) total: 1.25s remaining: 2.13s
74: learn: 2478.5147731 test: 2481.8828446 best: 2481.8828446 (74) total: 1.26s remaining: 2.11s
75: learn: 2467.8395991 test: 2470.8788515 best: 2470.8788515 (75) total: 1.28s remaining: 2.09s
76: learn: 2457.7066138 test: 2460.5246079 best: 2460.5246079 (76) total: 1.3s remaining: 2.08s
77: learn: 2447.8377469 test: 2450.2717760 best: 2450.2717760 (77) total: 1.31s remaining: 2.06s
78: learn: 2438.1402018 test: 2440.4109508 best: 2440.4109508 (78) total: 1.33s remaining: 2.04s
79: learn: 2427.8220716 test: 2429.7188850 best: 2429.7188850 (79) total: 1.34s remaining: 2.02s
80: learn: 2418.8485257 test: 2420.4181455 best: 2420.4181455 (80) total: 1.36s remaining: 2s
81: learn: 2409.4674082 test: 2410.6759895 best: 2410.6759895 (81) total: 1.38s remaining: 1.98s
82: learn: 2400.2584174 test: 2401.0660686 best: 2401.0660686 (82) total: 1.4s remaining: 1.97s
83: learn: 2391.9892391 test: 2392.4563665 best: 2392.4563665 (83) total: 1.41s remaining: 1.95s
84: learn: 2383.5611407 test: 2383.6818991 best: 2383.6818991 (84) total: 1.43s remaining: 1.93s
85: learn: 2376.3216079 test: 2376.2718254 best: 2376.2718254 (85) total: 1.44s remaining: 1.91s
86: learn: 2368.4904699 test: 2368.2747132 best: 2368.2747132 (86) total: 1.46s remaining: 1.89s
87: learn: 2361.1335893 test: 2360.5894557 best: 2360.5894557 (87) total: 1.47s remaining: 1.87s
88: learn: 2352.7978574 test: 2351.9643045 best: 2351.9643045 (88) total: 1.49s remaining: 1.86s
89: learn: 2345.7577604 test: 2344.5564906 best: 2344.5564906 (89) total: 1.51s remaining: 1.84s

90: learn: 2339.0871392 test: 2337.6174958 best: 2337.6174958 (90) total: 1.52s remaining: 1.82s
91: learn: 2332.3520730 test: 2330.3994468 best: 2330.3994468 (91) total: 1.54s remaining: 1.8s
92: learn: 2326.1868045 test: 2323.9754766 best: 2323.9754766 (92) total: 1.55s remaining: 1.78s
93: learn: 2319.1804781 test: 2316.8113855 best: 2316.8113855 (93) total: 1.57s remaining: 1.77s
94: learn: 2313.5748739 test: 2311.1490472 best: 2311.1490472 (94) total: 1.58s remaining: 1.75s
95: learn: 2307.7236713 test: 2305.1151681 best: 2305.1151681 (95) total: 1.6s remaining: 1.74s
96: learn: 2302.1205980 test: 2299.5116060 best: 2299.5116060 (96) total: 1.62s remaining: 1.72s
97: learn: 2296.4560063 test: 2293.5697068 best: 2293.5697068 (97) total: 1.63s remaining: 1.7s
98: learn: 2291.4227706 test: 2288.3575877 best: 2288.3575877 (98) total: 1.65s remaining: 1.68s
99: learn: 2285.8188807 test: 2282.2860149 best: 2282.2860149 (99) total: 1.66s remaining: 1.66s
100: learn: 2280.5607646 test: 2276.9413743 best: 2276.9413743 (100) total: 1.68s remaining: 1.64s
101: learn: 2275.3302347 test: 2271.4915395 best: 2271.4915395 (101) total: 1.7s remaining: 1.63s
102: learn: 2270.4624353 test: 2266.2747468 best: 2266.2747468 (102) total: 1.71s remaining: 1.61s
103: learn: 2265.5185334 test: 2261.1867924 best: 2261.1867924 (103) total: 1.73s remaining: 1.59s
104: learn: 2261.2976536 test: 2256.5254502 best: 2256.5254502 (104) total: 1.74s remaining: 1.57s
105: learn: 2255.9725152 test: 2251.0379479 best: 2251.0379479 (105) total: 1.76s remaining: 1.56s
106: learn: 2251.3997459 test: 2246.2789463 best: 2246.2789463 (106) total: 1.77s remaining: 1.54s
107: learn: 2247.0918009 test: 2241.8516984 best: 2241.8516984 (107) total: 1.79s remaining: 1.52s
108: learn: 2242.1425496 test: 2236.7119848 best: 2236.7119848 (108) total: 1.81s remaining: 1.51s
109: learn: 2237.9559922 test: 2232.4603371 best: 2232.4603371 (109) total: 1.83s remaining: 1.5s
110: learn: 2233.5429016 test: 2227.9946745 best: 2227.9946745 (110) total: 1.85s remaining: 1.49s
111: learn: 2229.8179138 test: 2224.1499570 best: 2224.1499570 (111) total: 1.87s remaining: 1.47s
112: learn: 2225.5335479 test: 2219.7967152 best: 2219.7967152 (112) total: 1.9s remaining: 1.46s
113: learn: 2221.8213041 test: 2215.9966274 best: 2215.9966274 (113) total: 1.92s remaining: 1.45s
114: learn: 2218.2706535 test: 2212.4190690 best: 2212.4190690 (114) total: 1.93s remaining: 1.43s
115: learn: 2214.0211494 test: 2207.8355514 best: 2207.8355514 (115) total: 1.95s remaining: 1.41s
116: learn: 2210.3251022 test: 2204.0793977 best: 2204.0793977 (116) total: 1.97s remaining: 1.4s
117: learn: 2206.4986640 test: 2200.1043796 best: 2200.1043796 (117) total: 1.99s remaining: 1.38s
118: learn: 2203.1230304 test: 2196.5957222 best: 2196.5957222 (118) total: 2.01s remaining: 1.37s
119: learn: 2199.9144293 test: 2193.1989678 best: 2193.1989678 (119) total: 2.03s remaining: 1.35s
120: learn: 2196.8684468 test: 2190.1668408 best: 2190.1668408 (120) total: 2.05s remaining: 1.34s
121: learn: 2192.9986787 test: 2186.0955043 best: 2186.0955043 (121) total: 2.06s remaining: 1.32s
122: learn: 2189.8496822 test: 2182.7349137 best: 2182.7349137 (122) total: 2.08s remaining: 1.3s
123: learn: 2185.6300072 test: 2178.3266589 best: 2178.3266589 (123) total: 2.1s remaining: 1.28s
124: learn: 2182.4904382 test: 2175.1781729 best: 2175.1781729 (124) total: 2.11s remaining: 1.27s
125: learn: 2179.0196251 test: 2171.4277691 best: 2171.4277691 (125) total: 2.13s remaining: 1.25s
126: learn: 2176.3204176 test: 2168.6198332 best: 2168.6198332 (126) total: 2.14s remaining: 1.23s
127: learn: 2173.2121513 test: 2165.5505961 best: 2165.5505961 (127) total: 2.16s remaining: 1.22s
128: learn: 2170.5716593 test: 2162.7578451 best: 2162.7578451 (128) total: 2.18s remaining: 1.2s
129: learn: 2167.7946208 test: 2160.0740444 best: 2160.0740444 (129) total: 2.19s remaining: 1.18s
130: learn: 2164.6138425 test: 2156.8837454 best: 2156.8837454 (130) total: 2.21s remaining: 1.17s
131: learn: 2160.0625426 test: 2152.2150662 best: 2152.2150662 (131) total: 2.23s remaining: 1.15s

131: learn: 2160.9635436 test: 2153.2159663 best: 2153.2159663 (131) total: 2.23s remaining: 1.15s
132: learn: 2158.0018321 test: 2149.8896610 best: 2149.8896610 (132) total: 2.25s remaining: 1.13s
133: learn: 2155.6104183 test: 2147.5700666 best: 2147.5700666 (133) total: 2.27s remaining: 1.11s
134: learn: 2152.7434808 test: 2144.5255961 best: 2144.5255961 (134) total: 2.28s remaining: 1.1s
135: learn: 2150.4170652 test: 2142.2439218 best: 2142.2439218 (135) total: 2.3s remaining: 1.08s
136: learn: 2147.4238426 test: 2139.1903111 best: 2139.1903111 (136) total: 2.31s remaining: 1.06s
137: learn: 2145.2276743 test: 2137.0490214 best: 2137.0490214 (137) total: 2.33s remaining: 1.04s
138: learn: 2142.5227086 test: 2134.3563957 best: 2134.3563957 (138) total: 2.34s remaining: 1.03s
139: learn: 2140.0678780 test: 2131.9006091 best: 2131.9006091 (139) total: 2.36s remaining: 1.01s
140: learn: 2137.6464322 test: 2129.3890589 best: 2129.3890589 (140) total: 2.37s remaining: 993ms
141: learn: 2135.1786711 test: 2126.8572788 best: 2126.8572788 (141) total: 2.39s remaining: 976ms
142: learn: 2132.6873507 test: 2124.3162053 best: 2124.3162053 (142) total: 2.4s remaining: 959ms
143: learn: 2129.3174252 test: 2120.8398171 best: 2120.8398171 (143) total: 2.42s remaining: 941ms
144: learn: 2126.8193429 test: 2118.3942365 best: 2118.3942365 (144) total: 2.44s remaining: 924ms
145: learn: 2124.1946959 test: 2115.7832118 best: 2115.7832118 (145) total: 2.45s remaining: 907ms
146: learn: 2122.2865656 test: 2113.9299066 best: 2113.9299066 (146) total: 2.47s remaining: 889ms
147: learn: 2120.3387577 test: 2112.0844725 best: 2112.0844725 (147) total: 2.49s remaining: 874ms
148: learn: 2118.3309040 test: 2109.9723038 best: 2109.9723038 (148) total: 2.5s remaining: 856ms
149: learn: 2116.1039268 test: 2107.6258930 best: 2107.6258930 (149) total: 2.52s remaining: 839ms
150: learn: 2114.0134697 test: 2105.5408002 best: 2105.5408002 (150) total: 2.53s remaining: 822ms
151: learn: 2111.9233249 test: 2103.4367952 best: 2103.4367952 (151) total: 2.55s remaining: 804ms
152: learn: 2110.2061986 test: 2101.7558800 best: 2101.7558800 (152) total: 2.56s remaining: 787ms
153: learn: 2108.3277514 test: 2099.9573901 best: 2099.9573901 (153) total: 2.58s remaining: 770ms
154: learn: 2105.7037251 test: 2097.2288567 best: 2097.2288567 (154) total: 2.59s remaining: 753ms
155: learn: 2103.3755267 test: 2094.8696762 best: 2094.8696762 (155) total: 2.61s remaining: 736ms
156: learn: 2101.3641448 test: 2092.8665552 best: 2092.8665552 (156) total: 2.62s remaining: 719ms
157: learn: 2099.4307715 test: 2090.7197088 best: 2090.7197088 (157) total: 2.64s remaining: 702ms
158: learn: 2097.4047411 test: 2088.8703705 best: 2088.8703705 (158) total: 2.65s remaining: 684ms
159: learn: 2094.9701145 test: 2086.4387764 best: 2086.4387764 (159) total: 2.67s remaining: 668ms
160: learn: 2092.6767456 test: 2084.1478300 best: 2084.1478300 (160) total: 2.69s remaining: 652ms
161: learn: 2089.8945471 test: 2081.3984778 best: 2081.3984778 (161) total: 2.71s remaining: 635ms
162: learn: 2088.3657426 test: 2079.8629361 best: 2079.8629361 (162) total: 2.72s remaining: 617ms
163: learn: 2086.6743566 test: 2078.0768542 best: 2078.0768542 (163) total: 2.73s remaining: 600ms
164: learn: 2084.0755180 test: 2075.5077006 best: 2075.5077006 (164) total: 2.75s remaining: 584ms
165: learn: 2081.7476876 test: 2073.0875692 best: 2073.0875692 (165) total: 2.77s remaining: 567ms
166: learn: 2079.2434115 test: 2070.5204383 best: 2070.5204383 (166) total: 2.79s remaining: 550ms
167: learn: 2077.6360450 test: 2068.7779107 best: 2068.7779107 (167) total: 2.8s remaining: 534ms
168: learn: 2075.6328199 test: 2066.7917278 best: 2066.7917278 (168) total: 2.82s remaining: 517ms
169: learn: 2074.1256348 test: 2065.3579563 best: 2065.3579563 (169) total: 2.83s remaining: 500ms
170: learn: 2072.6468146 test: 2063.9112490 best: 2063.9112490 (170) total: 2.85s remaining: 483ms
171: learn: 2070.4995566 test: 2061.6888780 best: 2061.6888780 (171) total: 2.86s remaining: 466ms
172: learn: 2068.5123855 test: 2059.5969386 best: 2059.5969386 (172) total: 2.88s remaining: 449ms

173: learn: 2066.8593988 test: 2058.0579042 best: 2058.0579042 (173) total: 2.9s remaining: 433ms
174: learn: 2065.4029281 test: 2056.4532428 best: 2056.4532428 (174) total: 2.91s remaining: 416ms
175: learn: 2063.8576238 test: 2054.8387437 best: 2054.8387437 (175) total: 2.92s remaining: 399ms
176: learn: 2062.2874274 test: 2053.2883500 best: 2053.2883500 (176) total: 2.94s remaining: 382ms
177: learn: 2060.9506376 test: 2052.0239122 best: 2052.0239122 (177) total: 2.96s remaining: 366ms
178: learn: 2059.3722312 test: 2050.3778645 best: 2050.3778645 (178) total: 2.98s remaining: 350ms
179: learn: 2057.9477851 test: 2048.9460523 best: 2048.9460523 (179) total: 3s remaining: 333ms
180: learn: 2055.9972947 test: 2046.9719443 best: 2046.9719443 (180) total: 3.01s remaining: 316ms
181: learn: 2054.5400159 test: 2045.5220135 best: 2045.5220135 (181) total: 3.03s remaining: 300ms
182: learn: 2053.1138501 test: 2044.0540262 best: 2044.0540262 (182) total: 3.04s remaining: 283ms
183: learn: 2051.7181312 test: 2042.6357173 best: 2042.6357173 (183) total: 3.06s remaining: 266ms
184: learn: 2049.7784542 test: 2040.6126818 best: 2040.6126818 (184) total: 3.08s remaining: 249ms
185: learn: 2048.2608456 test: 2039.1469619 best: 2039.1469619 (185) total: 3.09s remaining: 233ms
186: learn: 2046.0738935 test: 2036.8591454 best: 2036.8591454 (186) total: 3.11s remaining: 216ms
187: learn: 2044.5503141 test: 2035.3218227 best: 2035.3218227 (187) total: 3.12s remaining: 199ms
188: learn: 2042.9176349 test: 2033.5856657 best: 2033.5856657 (188) total: 3.14s remaining: 183ms
189: learn: 2041.0727211 test: 2031.7224001 best: 2031.7224001 (189) total: 3.15s remaining: 166ms
190: learn: 2039.6054167 test: 2030.1202804 best: 2030.1202804 (190) total: 3.18s remaining: 150ms
191: learn: 2037.7210218 test: 2028.1760480 best: 2028.1760480 (191) total: 3.19s remaining: 133ms
192: learn: 2036.4603118 test: 2026.9307357 best: 2026.9307357 (192) total: 3.21s remaining: 116ms
193: learn: 2035.3468487 test: 2025.8647772 best: 2025.8647772 (193) total: 3.22s remaining: 99.6ms
194: learn: 2034.2684396 test: 2024.9239131 best: 2024.9239131 (194) total: 3.24s remaining: 83ms
195: learn: 2032.7834646 test: 2023.3892856 best: 2023.3892856 (195) total: 3.25s remaining: 66.3ms
196: learn: 2031.5954644 test: 2022.1913792 best: 2022.1913792 (196) total: 3.27s remaining: 49.7ms
197: learn: 2029.7904252 test: 2020.2854030 best: 2020.2854030 (197) total: 3.28s remaining: 33.1ms
198: learn: 2028.1075835 test: 2018.4978048 best: 2018.4978048 (198) total: 3.3s remaining: 16.6ms
199: learn: 2026.5365229 test: 2016.9362987 best: 2016.9362987 (199) total: 3.31s remaining: 0us

bestTest = 2016.936299

bestIteration = 199

44: loss: 2016.9362987 best: 1787.3864554 (43) total: 1m 39s remaining: 1m 52s
0: learn: 6410.7448915 test: 6438.8543649 best: 6438.8543649 (0) total: 17.1ms remaining: 3.4s
1: learn: 5902.9147828 test: 5929.7023142 best: 5929.7023142 (1) total: 39.3ms remaining: 3.89s
2: learn: 5454.9518644 test: 5481.9714086 best: 5481.9714086 (2) total: 61.7ms remaining: 4.05s
3: learn: 5062.8192179 test: 5090.3440109 best: 5090.3440109 (3) total: 77.4ms remaining: 3.79s
4: learn: 4707.7163674 test: 4734.6824972 best: 4734.6824972 (4) total: 93ms remaining: 3.63s
5: learn: 4396.3963781 test: 4423.3128630 best: 4423.3128630 (5) total: 108ms remaining: 3.5s
6: learn: 4126.3274495 test: 4152.3592630 best: 4152.3592630 (6) total: 124ms remaining: 3.43s
7: learn: 3885.2494478 test: 3910.2672178 best: 3910.2672178 (7) total: 141ms remaining: 3.38s
8: learn: 3673.4523330 test: 3696.6046848 best: 3696.6046848 (8) total: 158ms remaining: 3.36s

9: learn: 3488.9451741 test: 3510.6983239 best: 3510.6983239 (9) total: 174ms remaining: 3.3s
10: learn: 3330.3703222 test: 3351.1933805 best: 3351.1933805 (10) total: 190ms remaining: 3.26s
11: learn: 3189.4619049 test: 3209.2234248 best: 3209.2234248 (11) total: 205ms remaining: 3.21s
12: learn: 3072.6221062 test: 3090.5485193 best: 3090.5485193 (12) total: 220ms remaining: 3.17s
13: learn: 2962.1008776 test: 2978.4508107 best: 2978.4508107 (13) total: 236ms remaining: 3.13s
14: learn: 2871.4359760 test: 2886.1431357 best: 2886.1431357 (14) total: 260ms remaining: 3.2s
15: learn: 2792.3077335 test: 2804.5908983 best: 2804.5908983 (15) total: 275ms remaining: 3.16s
16: learn: 2723.8211788 test: 2735.2005377 best: 2735.2005377 (16) total: 290ms remaining: 3.12s
17: learn: 2663.4854236 test: 2672.8265131 best: 2672.8265131 (17) total: 305ms remaining: 3.09s
18: learn: 2609.4610821 test: 2618.1210979 best: 2618.1210979 (18) total: 321ms remaining: 3.06s
19: learn: 2563.1023719 test: 2570.9781324 best: 2570.9781324 (19) total: 337ms remaining: 3.03s
20: learn: 2516.3627278 test: 2522.6489141 best: 2522.6489141 (20) total: 352ms remaining: 3s
21: learn: 2476.9616758 test: 2481.8573661 best: 2481.8573661 (21) total: 366ms remaining: 2.96s
22: learn: 2440.7974362 test: 2444.6345109 best: 2444.6345109 (22) total: 381ms remaining: 2.93s
23: learn: 2407.4738753 test: 2409.9780900 best: 2409.9780900 (23) total: 396ms remaining: 2.9s
24: learn: 2378.9071519 test: 2380.3458861 best: 2380.3458861 (24) total: 411ms remaining: 2.88s
25: learn: 2355.0608747 test: 2355.2448591 best: 2355.2448591 (25) total: 426ms remaining: 2.85s
26: learn: 2332.7457154 test: 2332.5155126 best: 2332.5155126 (26) total: 446ms remaining: 2.85s
27: learn: 2312.8417631 test: 2312.3556075 best: 2312.3556075 (27) total: 461ms remaining: 2.83s
28: learn: 2293.6695306 test: 2293.0290639 best: 2293.0290639 (28) total: 476ms remaining: 2.8s
29: learn: 2276.0473957 test: 2274.4582896 best: 2274.4582896 (29) total: 490ms remaining: 2.78s
30: learn: 2259.7833348 test: 2257.5379996 best: 2257.5379996 (30) total: 506ms remaining: 2.76s
31: learn: 2243.3622174 test: 2240.7185295 best: 2240.7185295 (31) total: 521ms remaining: 2.74s
32: learn: 2229.0987003 test: 2225.2623108 best: 2225.2623108 (32) total: 537ms remaining: 2.72s
33: learn: 2217.6802803 test: 2213.0629755 best: 2213.0629755 (33) total: 554ms remaining: 2.7s
34: learn: 2203.3671648 test: 2198.3638944 best: 2198.3638944 (34) total: 570ms remaining: 2.69s
35: learn: 2192.9049417 test: 2187.3274414 best: 2187.3274414 (35) total: 585ms remaining: 2.66s
36: learn: 2181.9985066 test: 2176.3650331 best: 2176.3650331 (36) total: 600ms remaining: 2.64s
37: learn: 2171.7500977 test: 2165.9320501 best: 2165.9320501 (37) total: 615ms remaining: 2.62s
38: learn: 2162.4671379 test: 2156.2565302 best: 2156.2565302 (38) total: 632ms remaining: 2.61s
39: learn: 2154.3642612 test: 2147.7332384 best: 2147.7332384 (39) total: 651ms remaining: 2.6s
40: learn: 2144.8238683 test: 2137.9799623 best: 2137.9799623 (40) total: 665ms remaining: 2.58s
41: learn: 2132.2280743 test: 2124.6574800 best: 2124.6574800 (41) total: 681ms remaining: 2.56s
42: learn: 2123.7962854 test: 2116.3924126 best: 2116.3924126 (42) total: 695ms remaining: 2.54s
43: learn: 2116.7745707 test: 2109.4789082 best: 2109.4789082 (43) total: 710ms remaining: 2.52s
44: learn: 2109.4816015 test: 2101.9939679 best: 2101.9939679 (44) total: 726ms remaining: 2.5s
45: learn: 2102.8827375 test: 2095.7032734 best: 2095.7032734 (45) total: 743ms remaining: 2.48s
46: learn: 2096.5764173 test: 2089.7544641 best: 2089.7544641 (46) total: 757ms remaining: 2.46s
47: learn: 2088.8000309 test: 2081.7813805 best: 2081.7813805 (47) total: 771ms remaining: 2.44s
48: learn: 2081.6349878 test: 2074.1541857 best: 2074.1541857 (48) total: 785ms remaining: 2.42s
49: learn: 2075.6786548 test: 2068.0500727 best: 2068.0500727 (49) total: 800ms remaining: 2.4s

50: learn: 2067.9842614 test: 2060.1500310 best: 2060.1500310 (50) total: 816ms remaining: 2.38s
51: learn: 2062.7097661 test: 2055.1746152 best: 2055.1746152 (51) total: 831ms remaining: 2.36s
52: learn: 2058.4387689 test: 2050.7952359 best: 2050.7952359 (52) total: 849ms remaining: 2.35s
53: learn: 2054.0561096 test: 2046.4044624 best: 2046.4044624 (53) total: 863ms remaining: 2.33s
54: learn: 2048.7058161 test: 2040.9899185 best: 2040.9899185 (54) total: 877ms remaining: 2.31s
55: learn: 2042.8547693 test: 2034.7338477 best: 2034.7338477 (55) total: 891ms remaining: 2.29s
56: learn: 2037.9313662 test: 2029.8631212 best: 2029.8631212 (56) total: 906ms remaining: 2.27s
57: learn: 2033.1186916 test: 2025.1284079 best: 2025.1284079 (57) total: 921ms remaining: 2.25s
58: learn: 2028.6281771 test: 2021.3189144 best: 2021.3189144 (58) total: 936ms remaining: 2.24s
59: learn: 2024.9633947 test: 2017.5590714 best: 2017.5590714 (59) total: 953ms remaining: 2.22s
60: learn: 2019.0044095 test: 2011.4574647 best: 2011.4574647 (60) total: 968ms remaining: 2.21s
61: learn: 2015.4692309 test: 2008.2249387 best: 2008.2249387 (61) total: 982ms remaining: 2.18s
62: learn: 2009.2505756 test: 2001.5594503 best: 2001.5594503 (62) total: 997ms remaining: 2.17s
63: learn: 2006.0578762 test: 1998.0766673 best: 1998.0766673 (63) total: 1.01s remaining: 2.15s
64: learn: 2002.8267678 test: 1994.8211197 best: 1994.8211197 (64) total: 1.03s remaining: 2.13s
65: learn: 1998.2085456 test: 1990.1032958 best: 1990.1032958 (65) total: 1.05s remaining: 2.13s
66: learn: 1995.2320680 test: 1987.4418227 best: 1987.4418227 (66) total: 1.06s remaining: 2.11s
67: learn: 1992.6275219 test: 1984.9614905 best: 1984.9614905 (67) total: 1.07s remaining: 2.09s
68: learn: 1988.3736889 test: 1980.7843341 best: 1980.7843341 (68) total: 1.09s remaining: 2.07s
69: learn: 1985.0627054 test: 1977.5249086 best: 1977.5249086 (69) total: 1.1s remaining: 2.05s
70: learn: 1979.5868340 test: 1972.1314534 best: 1972.1314534 (70) total: 1.12s remaining: 2.04s
71: learn: 1977.3058819 test: 1970.0152159 best: 1970.0152159 (71) total: 1.14s remaining: 2.02s
72: learn: 1972.9482940 test: 1965.4925938 best: 1965.4925938 (72) total: 1.15s remaining: 2s
73: learn: 1970.5713339 test: 1962.8377553 best: 1962.8377553 (73) total: 1.17s remaining: 1.99s
74: learn: 1967.9030916 test: 1960.4204353 best: 1960.4204353 (74) total: 1.18s remaining: 1.97s
75: learn: 1965.7054595 test: 1958.3552607 best: 1958.3552607 (75) total: 1.2s remaining: 1.95s
76: learn: 1962.8761500 test: 1955.6701680 best: 1955.6701680 (76) total: 1.21s remaining: 1.93s
77: learn: 1960.5522053 test: 1953.2884748 best: 1953.2884748 (77) total: 1.23s remaining: 1.92s
78: learn: 1956.4735126 test: 1948.9857026 best: 1948.9857026 (78) total: 1.25s remaining: 1.91s
79: learn: 1952.7307746 test: 1945.3079084 best: 1945.3079084 (79) total: 1.26s remaining: 1.89s
80: learn: 1949.7235752 test: 1942.2378752 best: 1942.2378752 (80) total: 1.28s remaining: 1.88s
81: learn: 1946.8653698 test: 1939.5615954 best: 1939.5615954 (81) total: 1.29s remaining: 1.86s
82: learn: 1944.3201673 test: 1936.6926794 best: 1936.6926794 (82) total: 1.31s remaining: 1.84s
83: learn: 1941.8467799 test: 1933.9394222 best: 1933.9394222 (83) total: 1.32s remaining: 1.82s
84: learn: 1937.0175638 test: 1928.8673989 best: 1928.8673989 (84) total: 1.34s remaining: 1.81s
85: learn: 1934.4587698 test: 1926.0694023 best: 1926.0694023 (85) total: 1.35s remaining: 1.8s
86: learn: 1931.9307870 test: 1923.5791898 best: 1923.5791898 (86) total: 1.37s remaining: 1.78s
87: learn: 1929.8287961 test: 1921.3314182 best: 1921.3314182 (87) total: 1.38s remaining: 1.76s
88: learn: 1926.9130409 test: 1918.3145131 best: 1918.3145131 (88) total: 1.4s remaining: 1.75s
89: learn: 1924.2112212 test: 1915.6652403 best: 1915.6652403 (89) total: 1.42s remaining: 1.73s
90: learn: 1922.4746957 test: 1913.9700190 best: 1913.9700190 (90) total: 1.43s remaining: 1.71s
91: learn: 1920.9917789 test: 1912.6338313 best: 1912.6338313 (91) total: 1.45s remaining: 1.7s

91: learn: 1920.5517789 test: 1912.6555313 best: 1912.6555313 (91) total: 1.43s remaining: 1.7s
92: learn: 1919.5776687 test: 1911.6274543 best: 1911.6274543 (92) total: 1.46s remaining: 1.68s
93: learn: 1917.8492714 test: 1909.8999381 best: 1909.8999381 (93) total: 1.48s remaining: 1.66s
94: learn: 1916.4625598 test: 1908.4476186 best: 1908.4476186 (94) total: 1.49s remaining: 1.65s
95: learn: 1914.6885677 test: 1906.5442397 best: 1906.5442397 (95) total: 1.51s remaining: 1.63s
96: learn: 1913.1094487 test: 1905.0379993 best: 1905.0379993 (96) total: 1.52s remaining: 1.62s
97: learn: 1911.0847556 test: 1903.1718920 best: 1903.1718920 (97) total: 1.54s remaining: 1.6s
98: learn: 1909.3541314 test: 1901.3940392 best: 1901.3940392 (98) total: 1.55s remaining: 1.59s
99: learn: 1906.1127986 test: 1897.9018000 best: 1897.9018000 (99) total: 1.57s remaining: 1.57s
100: learn: 1904.8632015 test: 1896.7362921 best: 1896.7362921 (100) total: 1.58s remaining: 1.55s
101: learn: 1902.8626391 test: 1895.2372457 best: 1895.2372457 (101) total: 1.6s remaining: 1.54s
102: learn: 1901.5587033 test: 1894.0453056 best: 1894.0453056 (102) total: 1.61s remaining: 1.52s
103: learn: 1899.7685787 test: 1892.3799116 best: 1892.3799116 (103) total: 1.63s remaining: 1.51s
104: learn: 1897.1167901 test: 1889.5187136 best: 1889.5187136 (104) total: 1.65s remaining: 1.5s
105: learn: 1895.5821928 test: 1888.0638464 best: 1888.0638464 (105) total: 1.67s remaining: 1.48s
106: learn: 1892.5594353 test: 1884.8317826 best: 1884.8317826 (106) total: 1.69s remaining: 1.46s
107: learn: 1890.4480825 test: 1882.5437060 best: 1882.5437060 (107) total: 1.7s remaining: 1.45s
108: learn: 1889.2351218 test: 1881.6931776 best: 1881.6931776 (108) total: 1.72s remaining: 1.43s
109: learn: 1887.9812796 test: 1880.4457714 best: 1880.4457714 (109) total: 1.73s remaining: 1.42s
110: learn: 1886.6063418 test: 1879.2532364 best: 1879.2532364 (110) total: 1.75s remaining: 1.4s
111: learn: 1885.4532030 test: 1878.2723272 best: 1878.2723272 (111) total: 1.76s remaining: 1.39s
112: learn: 1884.2146994 test: 1877.2207708 best: 1877.2207708 (112) total: 1.78s remaining: 1.37s
113: learn: 1882.6398197 test: 1875.8293343 best: 1875.8293343 (113) total: 1.79s remaining: 1.35s
114: learn: 1881.1042363 test: 1874.4060451 best: 1874.4060451 (114) total: 1.81s remaining: 1.34s
115: learn: 1879.3666963 test: 1872.7093165 best: 1872.7093165 (115) total: 1.83s remaining: 1.33s
116: learn: 1876.9940354 test: 1870.4575995 best: 1870.4575995 (116) total: 1.85s remaining: 1.31s
117: learn: 1875.3544457 test: 1869.2566321 best: 1869.2566321 (117) total: 1.86s remaining: 1.29s
118: learn: 1872.9796715 test: 1866.7526342 best: 1866.7526342 (118) total: 1.88s remaining: 1.28s
119: learn: 1871.7255515 test: 1865.3971928 best: 1865.3971928 (119) total: 1.89s remaining: 1.26s
120: learn: 1870.5589166 test: 1864.2660931 best: 1864.2660931 (120) total: 1.91s remaining: 1.24s
121: learn: 1869.3665369 test: 1862.9211854 best: 1862.9211854 (121) total: 1.92s remaining: 1.23s
122: learn: 1867.5610444 test: 1861.2076934 best: 1861.2076934 (122) total: 1.94s remaining: 1.21s
123: learn: 1866.3026153 test: 1860.1926601 best: 1860.1926601 (123) total: 1.95s remaining: 1.2s
124: learn: 1864.9092230 test: 1859.0561279 best: 1859.0561279 (124) total: 1.97s remaining: 1.18s
125: learn: 1863.9592036 test: 1858.1198056 best: 1858.1198056 (125) total: 1.98s remaining: 1.17s
126: learn: 1863.0805627 test: 1857.3887420 best: 1857.3887420 (126) total: 2s remaining: 1.15s
127: learn: 1861.0346888 test: 1856.0170302 best: 1856.0170302 (127) total: 2.01s remaining: 1.13s
128: learn: 1859.3292234 test: 1854.6577457 best: 1854.6577457 (128) total: 2.03s remaining: 1.12s
129: learn: 1858.2878707 test: 1853.6804335 best: 1853.6804335 (129) total: 2.05s remaining: 1.1s
130: learn: 1857.3609029 test: 1852.8096370 best: 1852.8096370 (130) total: 2.06s remaining: 1.09s
131: learn: 1856.1095086 test: 1851.7268338 best: 1851.7268338 (131) total: 2.08s remaining: 1.07s
132: learn: 1855.0499374 test: 1850.7770118 best: 1850.7770118 (132) total: 2.09s remaining: 1.05s

133: learn: 1854.1909277 test: 1849.9520431 best: 1849.9520431 (133) total: 2.11s remaining: 1.04s
134: learn: 1853.4671635 test: 1849.4364189 best: 1849.4364189 (134) total: 2.13s remaining: 1.02s
135: learn: 1852.4678647 test: 1848.5846217 best: 1848.5846217 (135) total: 2.14s remaining: 1.01s
136: learn: 1851.4494992 test: 1847.8420676 best: 1847.8420676 (136) total: 2.16s remaining: 992ms
137: learn: 1849.3727174 test: 1845.4786386 best: 1845.4786386 (137) total: 2.17s remaining: 976ms
138: learn: 1848.3841018 test: 1844.7482106 best: 1844.7482106 (138) total: 2.19s remaining: 960ms
139: learn: 1847.6379634 test: 1844.1507309 best: 1844.1507309 (139) total: 2.2s remaining: 944ms
140: learn: 1846.7360420 test: 1843.6654930 best: 1843.6654930 (140) total: 2.22s remaining: 928ms
141: learn: 1845.4561872 test: 1842.0620096 best: 1842.0620096 (141) total: 2.23s remaining: 912ms
142: learn: 1844.0913137 test: 1840.5723970 best: 1840.5723970 (142) total: 2.25s remaining: 896ms
143: learn: 1842.4432381 test: 1839.6295837 best: 1839.6295837 (143) total: 2.26s remaining: 879ms
144: learn: 1841.7497281 test: 1838.9835381 best: 1838.9835381 (144) total: 2.27s remaining: 863ms
145: learn: 1840.1694567 test: 1837.3773009 best: 1837.3773009 (145) total: 2.29s remaining: 847ms
146: learn: 1839.2375532 test: 1836.3530834 best: 1836.3530834 (146) total: 2.31s remaining: 831ms
147: learn: 1838.5189951 test: 1835.8361309 best: 1835.8361309 (147) total: 2.32s remaining: 816ms
148: learn: 1837.7081014 test: 1835.1380842 best: 1835.1380842 (148) total: 2.34s remaining: 801ms
149: learn: 1836.6195616 test: 1834.0846947 best: 1834.0846947 (149) total: 2.35s remaining: 785ms
150: learn: 1835.8435857 test: 1833.3242410 best: 1833.3242410 (150) total: 2.37s remaining: 769ms
151: learn: 1835.1750147 test: 1832.8636057 best: 1832.8636057 (151) total: 2.38s remaining: 753ms
152: learn: 1833.9634966 test: 1831.6304502 best: 1831.6304502 (152) total: 2.4s remaining: 737ms
153: learn: 1832.8517543 test: 1830.5260022 best: 1830.5260022 (153) total: 2.42s remaining: 721ms
154: learn: 1832.1699636 test: 1829.7992606 best: 1829.7992606 (154) total: 2.43s remaining: 706ms
155: learn: 1831.4243833 test: 1829.2593707 best: 1829.2593707 (155) total: 2.45s remaining: 690ms
156: learn: 1830.6801920 test: 1828.4454674 best: 1828.4454674 (156) total: 2.46s remaining: 674ms
157: learn: 1829.9283447 test: 1827.7336327 best: 1827.7336327 (157) total: 2.48s remaining: 658ms
158: learn: 1828.9389061 test: 1826.4991258 best: 1826.4991258 (158) total: 2.49s remaining: 642ms
159: learn: 1827.8964657 test: 1825.5256199 best: 1825.5256199 (159) total: 2.5s remaining: 626ms
160: learn: 1826.4115924 test: 1823.7820905 best: 1823.7820905 (160) total: 2.53s remaining: 612ms
161: learn: 1825.2175287 test: 1822.8273821 best: 1822.8273821 (161) total: 2.54s remaining: 597ms
162: learn: 1824.1715037 test: 1821.7481816 best: 1821.7481816 (162) total: 2.56s remaining: 581ms
163: learn: 1822.9701223 test: 1820.7624274 best: 1820.7624274 (163) total: 2.57s remaining: 565ms
164: learn: 1822.1574915 test: 1820.0272079 best: 1820.0272079 (164) total: 2.59s remaining: 549ms
165: learn: 1821.3805283 test: 1819.2906588 best: 1819.2906588 (165) total: 2.6s remaining: 533ms
166: learn: 1820.3003560 test: 1818.0163968 best: 1818.0163968 (166) total: 2.62s remaining: 518ms
167: learn: 1819.2991269 test: 1817.1613639 best: 1817.1613639 (167) total: 2.63s remaining: 502ms
168: learn: 1818.3409764 test: 1816.2985609 best: 1816.2985609 (168) total: 2.65s remaining: 487ms
169: learn: 1817.2089703 test: 1815.4454996 best: 1815.4454996 (169) total: 2.67s remaining: 472ms
170: learn: 1816.2667070 test: 1814.6812579 best: 1814.6812579 (170) total: 2.69s remaining: 457ms
171: learn: 1815.6968878 test: 1814.3004177 best: 1814.3004177 (171) total: 2.71s remaining: 442ms
172: learn: 1814.7026150 test: 1813.3872382 best: 1813.3872382 (172) total: 2.73s remaining: 427ms
173: learn: 1812.9001500 test: 1811.7246944 best: 1811.7246944 (173) total: 2.75s remaining: 411ms

174: learn: 1811.9889957 test: 1811.2634250 best: 1811.2634250 (174) total: 2.77s remaining: 395ms
175: learn: 1810.6534650 test: 1809.9480672 best: 1809.9480672 (175) total: 2.78s remaining: 379ms
176: learn: 1810.1839141 test: 1809.5330554 best: 1809.5330554 (176) total: 2.8s remaining: 364ms
177: learn: 1809.4068006 test: 1808.9780012 best: 1808.9780012 (177) total: 2.81s remaining: 348ms
178: learn: 1808.8404753 test: 1808.5149920 best: 1808.5149920 (178) total: 2.83s remaining: 332ms
179: learn: 1807.4184111 test: 1807.3439624 best: 1807.3439624 (179) total: 2.85s remaining: 316ms
180: learn: 1806.5329879 test: 1806.3905260 best: 1806.3905260 (180) total: 2.86s remaining: 301ms
181: learn: 1805.4710961 test: 1805.4535239 best: 1805.4535239 (181) total: 2.88s remaining: 285ms
182: learn: 1804.6074202 test: 1804.5554808 best: 1804.5554808 (182) total: 2.89s remaining: 269ms
183: learn: 1803.6292668 test: 1803.3463536 best: 1803.3463536 (183) total: 2.91s remaining: 253ms
184: learn: 1802.5893694 test: 1802.0658697 best: 1802.0658697 (184) total: 2.93s remaining: 237ms
185: learn: 1801.7533916 test: 1801.4273514 best: 1801.4273514 (185) total: 2.94s remaining: 222ms
186: learn: 1800.7949788 test: 1800.5944012 best: 1800.5944012 (186) total: 2.96s remaining: 206ms
187: learn: 1800.2275557 test: 1800.0201948 best: 1800.0201948 (187) total: 2.97s remaining: 190ms
188: learn: 1799.3276290 test: 1799.0515221 best: 1799.0515221 (188) total: 2.99s remaining: 174ms
189: learn: 1798.6816000 test: 1798.3099115 best: 1798.3099115 (189) total: 3s remaining: 158ms
190: learn: 1797.8295993 test: 1797.9605731 best: 1797.9605731 (190) total: 3.02s remaining: 142ms
191: learn: 1796.9429126 test: 1797.1777495 best: 1797.1777495 (191) total: 3.04s remaining: 127ms
192: learn: 1796.0031177 test: 1796.3807865 best: 1796.3807865 (192) total: 3.05s remaining: 111ms
193: learn: 1795.4720859 test: 1795.8472109 best: 1795.8472109 (193) total: 3.07s remaining: 94.9ms
194: learn: 1794.9093101 test: 1795.3070832 best: 1795.3070832 (194) total: 3.08s remaining: 79.1ms
195: learn: 1793.9677270 test: 1794.3490673 best: 1794.3490673 (195) total: 3.1s remaining: 63.3ms
196: learn: 1792.5912422 test: 1792.7809097 best: 1792.7809097 (196) total: 3.12s remaining: 47.5ms
197: learn: 1792.0592281 test: 1792.4161663 best: 1792.4161663 (197) total: 3.13s remaining: 31.7ms
198: learn: 1791.4948145 test: 1791.9033854 best: 1791.9033854 (198) total: 3.15s remaining: 15.8ms
199: learn: 1790.8140756 test: 1791.4796697 best: 1791.4796697 (199) total: 3.16s remaining: 0us

bestTest = 1791.47967

bestIteration = 199

45: loss: 1791.4796697 best: 1787.3864554 (43) total: 1m 42s remaining: 1m 51s
0: learn: 6809.5911264 test: 6837.6947643 best: 6837.6947643 (0) total: 17ms remaining: 3.38s
1: learn: 6643.2483021 test: 6671.0025107 best: 6671.0025107 (1) total: 33.7ms remaining: 3.33s
2: learn: 6482.9571099 test: 6510.8458279 best: 6510.8458279 (2) total: 52.5ms remaining: 3.44s
3: learn: 6329.5676364 test: 6357.8057277 best: 6357.8057277 (3) total: 68.9ms remaining: 3.38s
4: learn: 6180.1422858 test: 6208.5797843 best: 6208.5797843 (4) total: 84.9ms remaining: 3.31s
5: learn: 6034.1445542 test: 6062.6329074 best: 6062.6329074 (5) total: 101ms remaining: 3.28s
6: learn: 5894.2979470 test: 5922.8820862 best: 5922.8820862 (6) total: 118ms remaining: 3.26s
7: learn: 5758.9397497 test: 5787.2619637 best: 5787.2619637 (7) total: 135ms remaining: 3.25s
8: learn: 5627.3568505 test: 5655.4649212 best: 5655.4649212 (8) total: 156ms remaining: 3.3s
9: learn: 5502.0029990 test: 5530.1229382 best: 5530.1229382 (9) total: 172ms remaining: 3.27s

10: learn: 5380.6040428 test: 5408.7003392 best: 5408.7003392 (10) total: 189ms remaining: 3.24s
11: learn: 5263.0798910 test: 5291.2078913 best: 5291.2078913 (11) total: 205ms remaining: 3.21s
12: learn: 5149.6075012 test: 5177.6264811 best: 5177.6264811 (12) total: 221ms remaining: 3.19s
13: learn: 5040.3371725 test: 5068.2801209 best: 5068.2801209 (13) total: 240ms remaining: 3.19s
14: learn: 4934.9091451 test: 4962.7948385 best: 4962.7948385 (14) total: 256ms remaining: 3.16s
15: learn: 4833.4876745 test: 4861.0281523 best: 4861.0281523 (15) total: 272ms remaining: 3.13s
16: learn: 4734.9057031 test: 4762.1674585 best: 4762.1674585 (16) total: 288ms remaining: 3.1s
17: learn: 4640.5173837 test: 4667.3794359 best: 4667.3794359 (17) total: 305ms remaining: 3.08s
18: learn: 4550.4524760 test: 4577.0114997 best: 4577.0114997 (18) total: 321ms remaining: 3.06s
19: learn: 4462.7703029 test: 4489.1840145 best: 4489.1840145 (19) total: 340ms remaining: 3.06s
20: learn: 4377.4072881 test: 4403.4490690 best: 4403.4490690 (20) total: 357ms remaining: 3.04s
21: learn: 4295.5051823 test: 4321.1947760 best: 4321.1947760 (21) total: 373ms remaining: 3.01s
22: learn: 4215.1357896 test: 4240.8818600 best: 4240.8818600 (22) total: 389ms remaining: 2.99s
23: learn: 4138.3172843 test: 4164.0233688 best: 4164.0233688 (23) total: 406ms remaining: 2.97s
24: learn: 4065.4955830 test: 4090.7948613 best: 4090.7948613 (24) total: 422ms remaining: 2.95s
25: learn: 3994.2436598 test: 4019.0032529 best: 4019.0032529 (25) total: 443ms remaining: 2.96s
26: learn: 3925.0219289 test: 3949.6571038 best: 3949.6571038 (26) total: 464ms remaining: 2.98s
27: learn: 3861.4917439 test: 3885.6761357 best: 3885.6761357 (27) total: 482ms remaining: 2.96s
28: learn: 3798.1577346 test: 3821.8960091 best: 3821.8960091 (28) total: 498ms remaining: 2.94s
29: learn: 3737.3400264 test: 3760.5300756 best: 3760.5300756 (29) total: 515ms remaining: 2.92s
30: learn: 3678.5478051 test: 3701.5374379 best: 3701.5374379 (30) total: 533ms remaining: 2.9s
31: learn: 3621.4254251 test: 3643.9467298 best: 3643.9467298 (31) total: 554ms remaining: 2.91s
32: learn: 3568.4081801 test: 3590.6392555 best: 3590.6392555 (32) total: 572ms remaining: 2.89s
33: learn: 3516.3936894 test: 3538.1452072 best: 3538.1452072 (33) total: 588ms remaining: 2.87s
34: learn: 3466.3280972 test: 3487.2395717 best: 3487.2395717 (34) total: 604ms remaining: 2.85s
35: learn: 3418.2881546 test: 3438.8360989 best: 3438.8360989 (35) total: 622ms remaining: 2.83s
36: learn: 3371.6774496 test: 3391.7254501 best: 3391.7254501 (36) total: 640ms remaining: 2.82s
37: learn: 3328.2846946 test: 3348.0442232 best: 3348.0442232 (37) total: 656ms remaining: 2.8s
38: learn: 3284.1667460 test: 3303.2872628 best: 3303.2872628 (38) total: 672ms remaining: 2.78s
39: learn: 3243.2716783 test: 3261.6157415 best: 3261.6157415 (39) total: 689ms remaining: 2.75s
40: learn: 3204.3368976 test: 3222.4220943 best: 3222.4220943 (40) total: 705ms remaining: 2.73s
41: learn: 3165.6694587 test: 3183.1942089 best: 3183.1942089 (41) total: 721ms remaining: 2.71s
42: learn: 3130.8422755 test: 3147.9289814 best: 3147.9289814 (42) total: 742ms remaining: 2.71s
43: learn: 3096.8496609 test: 3113.4858677 best: 3113.4858677 (43) total: 759ms remaining: 2.69s
44: learn: 3063.9869014 test: 3080.0064556 best: 3080.0064556 (44) total: 776ms remaining: 2.67s
45: learn: 3031.7171124 test: 3047.1573483 best: 3047.1573483 (45) total: 793ms remaining: 2.65s
46: learn: 3001.6038949 test: 3016.7315323 best: 3016.7315323 (46) total: 812ms remaining: 2.64s
47: learn: 2971.7299885 test: 2986.1009786 best: 2986.1009786 (47) total: 831ms remaining: 2.63s
48: learn: 2943.2426778 test: 2957.2658960 best: 2957.2658960 (48) total: 848ms remaining: 2.61s
49: learn: 2915.5903981 test: 2929.4705634 best: 2929.4705634 (49) total: 863ms remaining: 2.59s
50: learn: 2889.9838322 test: 2903.6180317 best: 2903.6180317 (50) total: 878ms remaining: 2.56s
51: learn: 2864.1427938 test: 2877.1273749 best: 2877.1273749 (51) total: 894ms remaining: 2.54s

51: learn: 2881.112733 test: 2877.712737 best: 2877.712737 (51) total: 33ms remaining: 2.51s
52: learn: 2839.4766490 test: 2851.9018427 best: 2851.9018427 (52) total: 910ms remaining: 2.52s
53: learn: 2816.9597918 test: 2829.0819467 best: 2829.0819467 (53) total: 926ms remaining: 2.5s
54: learn: 2794.5688200 test: 2806.1824930 best: 2806.1824930 (54) total: 947ms remaining: 2.5s
55: learn: 2773.6082186 test: 2784.5801988 best: 2784.5801988 (55) total: 962ms remaining: 2.47s
56: learn: 2752.9588334 test: 2763.4082338 best: 2763.4082338 (56) total: 979ms remaining: 2.46s
57: learn: 2733.1213575 test: 2743.3987830 best: 2743.3987830 (57) total: 995ms remaining: 2.44s
58: learn: 2714.4687581 test: 2724.3235903 best: 2724.3235903 (58) total: 1.01s remaining: 2.42s
59: learn: 2695.1937965 test: 2704.4979610 best: 2704.4979610 (59) total: 1.03s remaining: 2.4s
60: learn: 2677.2789568 test: 2686.1038231 best: 2686.1038231 (60) total: 1.04s remaining: 2.38s
61: learn: 2659.9206918 test: 2668.3723625 best: 2668.3723625 (61) total: 1.06s remaining: 2.36s
62: learn: 2642.1821263 test: 2650.2115498 best: 2650.2115498 (62) total: 1.07s remaining: 2.34s
63: learn: 2626.6260223 test: 2634.4140552 best: 2634.4140552 (63) total: 1.09s remaining: 2.32s
64: learn: 2610.8796566 test: 2618.5300793 best: 2618.5300793 (64) total: 1.11s remaining: 2.3s
65: learn: 2596.4773755 test: 2603.8878615 best: 2603.8878615 (65) total: 1.12s remaining: 2.28s
66: learn: 2581.6977090 test: 2588.6888733 best: 2588.6888733 (66) total: 1.15s remaining: 2.27s
67: learn: 2568.4587686 test: 2574.8573656 best: 2574.8573656 (67) total: 1.17s remaining: 2.26s
68: learn: 2555.2912334 test: 2561.4670750 best: 2561.4670750 (68) total: 1.18s remaining: 2.24s
69: learn: 2540.9954074 test: 2546.5734171 best: 2546.5734171 (69) total: 1.2s remaining: 2.22s
70: learn: 2528.3909193 test: 2533.4840388 best: 2533.4840388 (70) total: 1.21s remaining: 2.21s
71: learn: 2516.0482404 test: 2520.7480852 best: 2520.7480852 (71) total: 1.23s remaining: 2.19s
72: learn: 2504.3848175 test: 2508.9570220 best: 2508.9570220 (72) total: 1.25s remaining: 2.17s
73: learn: 2492.2622642 test: 2496.2796934 best: 2496.2796934 (73) total: 1.26s remaining: 2.15s
74: learn: 2480.6517978 test: 2484.2996876 best: 2484.2996876 (74) total: 1.28s remaining: 2.13s
75: learn: 2469.7501508 test: 2472.9051033 best: 2472.9051033 (75) total: 1.29s remaining: 2.11s
76: learn: 2459.5847491 test: 2462.5127861 best: 2462.5127861 (76) total: 1.31s remaining: 2.09s
77: learn: 2449.8903457 test: 2452.5727174 best: 2452.5727174 (77) total: 1.33s remaining: 2.08s
78: learn: 2440.3247457 test: 2442.8892102 best: 2442.8892102 (78) total: 1.35s remaining: 2.06s
79: learn: 2430.0826227 test: 2432.2608663 best: 2432.2608663 (79) total: 1.36s remaining: 2.04s
80: learn: 2420.1285507 test: 2421.9038659 best: 2421.9038659 (80) total: 1.38s remaining: 2.02s
81: learn: 2410.7557733 test: 2412.1708712 best: 2412.1708712 (81) total: 1.4s remaining: 2.01s
82: learn: 2402.3174793 test: 2403.4921204 best: 2403.4921204 (82) total: 1.41s remaining: 1.99s
83: learn: 2393.9042826 test: 2394.6388113 best: 2394.6388113 (83) total: 1.43s remaining: 1.98s
84: learn: 2385.4661683 test: 2385.7445438 best: 2385.7445438 (84) total: 1.45s remaining: 1.96s
85: learn: 2377.8657073 test: 2378.0345490 best: 2378.0345490 (85) total: 1.46s remaining: 1.94s
86: learn: 2370.1443081 test: 2370.1388895 best: 2370.1388895 (86) total: 1.48s remaining: 1.92s
87: learn: 2362.9954095 test: 2362.3921418 best: 2362.3921418 (87) total: 1.5s remaining: 1.9s
88: learn: 2354.6622677 test: 2353.7691583 best: 2353.7691583 (88) total: 1.51s remaining: 1.89s
89: learn: 2348.0038395 test: 2346.9618186 best: 2346.9618186 (89) total: 1.53s remaining: 1.87s
90: learn: 2341.0710647 test: 2339.6935914 best: 2339.6935914 (90) total: 1.55s remaining: 1.85s
91: learn: 2334.3067560 test: 2332.4437856 best: 2332.4437856 (91) total: 1.56s remaining: 1.83s
92: learn: 2328.0298665 test: 2325.9021744 best: 2325.9021744 (92) total: 1.58s remaining: 1.82s

93: learn: 2321.1446439 test: 2318.8620438 best: 2318.8620438 (93) total: 1.6s remaining: 1.8s
94: learn: 2315.5688826 test: 2313.2270771 best: 2313.2270771 (94) total: 1.61s remaining: 1.78s
95: learn: 2309.6380361 test: 2307.1114110 best: 2307.1114110 (95) total: 1.63s remaining: 1.77s
96: learn: 2304.0329085 test: 2301.3217597 best: 2301.3217597 (96) total: 1.65s remaining: 1.75s
97: learn: 2298.5109434 test: 2295.5226072 best: 2295.5226072 (97) total: 1.67s remaining: 1.74s
98: learn: 2293.4550520 test: 2290.2682897 best: 2290.2682897 (98) total: 1.68s remaining: 1.72s
99: learn: 2287.5656071 test: 2284.2654606 best: 2284.2654606 (99) total: 1.7s remaining: 1.7s
100: learn: 2282.4637904 test: 2279.0739446 best: 2279.0739446 (100) total: 1.72s remaining: 1.68s
101: learn: 2277.3901805 test: 2273.9372012 best: 2273.9372012 (101) total: 1.73s remaining: 1.67s
102: learn: 2272.1356355 test: 2268.2489863 best: 2268.2489863 (102) total: 1.75s remaining: 1.65s
103: learn: 2266.9218688 test: 2263.0038302 best: 2263.0038302 (103) total: 1.77s remaining: 1.63s
104: learn: 2261.8402646 test: 2257.8608323 best: 2257.8608323 (104) total: 1.78s remaining: 1.61s
105: learn: 2257.5631140 test: 2253.5723494 best: 2253.5723494 (105) total: 1.8s remaining: 1.59s
106: learn: 2252.3591303 test: 2247.9575956 best: 2247.9575956 (106) total: 1.81s remaining: 1.58s
107: learn: 2247.7649287 test: 2243.2640533 best: 2243.2640533 (107) total: 1.84s remaining: 1.56s
108: learn: 2243.1061874 test: 2238.3624885 best: 2238.3624885 (108) total: 1.85s remaining: 1.55s
109: learn: 2239.0321977 test: 2234.1941730 best: 2234.1941730 (109) total: 1.87s remaining: 1.53s
110: learn: 2234.6904985 test: 2229.4600688 best: 2229.4600688 (110) total: 1.88s remaining: 1.51s
111: learn: 2229.9552026 test: 2224.4449751 best: 2224.4449751 (111) total: 1.9s remaining: 1.49s
112: learn: 2225.7105395 test: 2220.1865150 best: 2220.1865150 (112) total: 1.91s remaining: 1.47s
113: learn: 2221.9789632 test: 2216.4075354 best: 2216.4075354 (113) total: 1.93s remaining: 1.46s
114: learn: 2218.3819105 test: 2212.7840898 best: 2212.7840898 (114) total: 1.95s remaining: 1.44s
115: learn: 2214.5743940 test: 2208.8518000 best: 2208.8518000 (115) total: 1.96s remaining: 1.42s
116: learn: 2211.0226225 test: 2205.2990731 best: 2205.2990731 (116) total: 1.98s remaining: 1.4s
117: learn: 2207.4576685 test: 2201.7298305 best: 2201.7298305 (117) total: 1.99s remaining: 1.38s
118: learn: 2204.0748405 test: 2198.2048721 best: 2198.2048721 (118) total: 2.01s remaining: 1.37s
119: learn: 2200.3353638 test: 2194.2663727 best: 2194.2663727 (119) total: 2.03s remaining: 1.35s
120: learn: 2197.1770716 test: 2191.1159637 best: 2191.1159637 (120) total: 2.05s remaining: 1.34s
121: learn: 2193.4032561 test: 2187.0160857 best: 2187.0160857 (121) total: 2.06s remaining: 1.32s
122: learn: 2189.9286799 test: 2183.3020319 best: 2183.3020319 (122) total: 2.08s remaining: 1.3s
123: learn: 2186.7851557 test: 2180.1746692 best: 2180.1746692 (123) total: 2.1s remaining: 1.28s
124: learn: 2184.0018501 test: 2177.4267122 best: 2177.4267122 (124) total: 2.11s remaining: 1.27s
125: learn: 2180.5490197 test: 2173.7332507 best: 2173.7332507 (125) total: 2.13s remaining: 1.25s
126: learn: 2177.8462848 test: 2170.9167965 best: 2170.9167965 (126) total: 2.15s remaining: 1.23s
127: learn: 2174.6909342 test: 2167.7984716 best: 2167.7984716 (127) total: 2.16s remaining: 1.22s
128: learn: 2171.9466320 test: 2164.8916888 best: 2164.8916888 (128) total: 2.18s remaining: 1.2s
129: learn: 2168.8905129 test: 2161.7803827 best: 2161.7803827 (129) total: 2.19s remaining: 1.18s
130: learn: 2165.7269725 test: 2158.2597111 best: 2158.2597111 (130) total: 2.21s remaining: 1.16s
131: learn: 2161.7339884 test: 2154.0345600 best: 2154.0345600 (131) total: 2.23s remaining: 1.15s
132: learn: 2158.7715256 test: 2151.0406849 best: 2151.0406849 (132) total: 2.24s remaining: 1.13s
133: learn: 2156.2106195 test: 2148.5113852 best: 2148.5113852 (133) total: 2.26s remaining: 1.11s

134: learn: 2153.3224461 test: 2145.4394091 best: 2145.4394091 (134) total: 2.27s remaining: 1.09s
135: learn: 2150.2933616 test: 2142.3801738 best: 2142.3801738 (135) total: 2.29s remaining: 1.08s
136: learn: 2147.3340427 test: 2139.3568694 best: 2139.3568694 (136) total: 2.31s remaining: 1.06s
137: learn: 2145.1520540 test: 2137.2354202 best: 2137.2354202 (137) total: 2.33s remaining: 1.04s
138: learn: 2142.3027576 test: 2134.2652107 best: 2134.2652107 (138) total: 2.34s remaining: 1.03s
139: learn: 2139.7780998 test: 2131.6827766 best: 2131.6827766 (139) total: 2.36s remaining: 1.01s
140: learn: 2137.2858777 test: 2129.1056324 best: 2129.1056324 (140) total: 2.37s remaining: 993ms
141: learn: 2135.2286236 test: 2127.0125902 best: 2127.0125902 (141) total: 2.39s remaining: 976ms
142: learn: 2132.7056262 test: 2124.4402479 best: 2124.4402479 (142) total: 2.41s remaining: 959ms
143: learn: 2129.3957225 test: 2121.0239757 best: 2121.0239757 (143) total: 2.43s remaining: 945ms
144: learn: 2127.1396446 test: 2118.7149203 best: 2118.7149203 (144) total: 2.45s remaining: 930ms
145: learn: 2124.6812391 test: 2116.1663853 best: 2116.1663853 (145) total: 2.47s remaining: 913ms
146: learn: 2122.5011356 test: 2114.1057476 best: 2114.1057476 (146) total: 2.48s remaining: 895ms
147: learn: 2120.2620422 test: 2111.8252328 best: 2111.8252328 (147) total: 2.5s remaining: 878ms
148: learn: 2117.8764429 test: 2109.4558968 best: 2109.4558968 (148) total: 2.52s remaining: 861ms
149: learn: 2116.0108402 test: 2107.5459169 best: 2107.5459169 (149) total: 2.53s remaining: 844ms
150: learn: 2113.8829476 test: 2105.4203045 best: 2105.4203045 (150) total: 2.55s remaining: 828ms
151: learn: 2111.7759440 test: 2103.3218141 best: 2103.3218141 (151) total: 2.57s remaining: 811ms
152: learn: 2110.0074972 test: 2101.6091235 best: 2101.6091235 (152) total: 2.58s remaining: 793ms
153: learn: 2106.8293840 test: 2098.2388757 best: 2098.2388757 (153) total: 2.6s remaining: 777ms
154: learn: 2104.2727578 test: 2095.5810187 best: 2095.5810187 (154) total: 2.62s remaining: 761ms
155: learn: 2101.3278547 test: 2092.5040714 best: 2092.5040714 (155) total: 2.63s remaining: 743ms
156: learn: 2099.2588106 test: 2090.3216390 best: 2090.3216390 (156) total: 2.65s remaining: 726ms
157: learn: 2097.3213397 test: 2088.2826339 best: 2088.2826339 (157) total: 2.67s remaining: 709ms
158: learn: 2095.4849291 test: 2086.5865662 best: 2086.5865662 (158) total: 2.68s remaining: 692ms
159: learn: 2093.5427164 test: 2084.6229188 best: 2084.6229188 (159) total: 2.7s remaining: 675ms
160: learn: 2091.2284642 test: 2082.3124260 best: 2082.3124260 (160) total: 2.71s remaining: 657ms
161: learn: 2089.5284703 test: 2080.5856948 best: 2080.5856948 (161) total: 2.73s remaining: 641ms
162: learn: 2087.9641815 test: 2079.0161019 best: 2079.0161019 (162) total: 2.75s remaining: 623ms
163: learn: 2085.4146514 test: 2076.2908303 best: 2076.2908303 (163) total: 2.76s remaining: 606ms
164: learn: 2082.8548910 test: 2073.6272544 best: 2073.6272544 (164) total: 2.77s remaining: 589ms
165: learn: 2080.8275300 test: 2071.4980499 best: 2071.4980499 (165) total: 2.79s remaining: 572ms
166: learn: 2078.6976821 test: 2069.4309183 best: 2069.4309183 (166) total: 2.81s remaining: 555ms
167: learn: 2076.5521079 test: 2067.2218979 best: 2067.2218979 (167) total: 2.83s remaining: 539ms
168: learn: 2074.5845914 test: 2065.2740333 best: 2065.2740333 (168) total: 2.85s remaining: 522ms
169: learn: 2073.0233590 test: 2063.7765886 best: 2063.7765886 (169) total: 2.86s remaining: 505ms
170: learn: 2071.1229815 test: 2061.8671938 best: 2061.8671938 (170) total: 2.87s remaining: 487ms
171: learn: 2069.7490967 test: 2060.4696172 best: 2060.4696172 (171) total: 2.89s remaining: 470ms
172: learn: 2067.9485878 test: 2058.5591594 best: 2058.5591594 (172) total: 2.9s remaining: 453ms
173: learn: 2066.2786334 test: 2057.0020300 best: 2057.0020300 (173) total: 2.92s remaining: 436ms
174: learn: 2064.4058110 test: 2055.0005581 best: 2055.0005581 (174) total: 2.93s remaining: 419ms
175: learn: 2062.3324872 test: 2053.5769354 best: 2053.5769354 (175) total: 2.95s remaining: 402ms

175: learn: 2062.8284079 test: 2053.3569054 best: 2053.3569054 (175) total: 2.95s remaining: 402ms
176: learn: 2061.2355232 test: 2051.7172777 best: 2051.7172777 (176) total: 2.96s remaining: 385ms
177: learn: 2059.8753198 test: 2050.4316573 best: 2050.4316573 (177) total: 2.98s remaining: 368ms
178: learn: 2058.5231168 test: 2049.1592255 best: 2049.1592255 (178) total: 3s remaining: 351ms
179: learn: 2056.8199184 test: 2047.4135157 best: 2047.4135157 (179) total: 3.02s remaining: 335ms
180: learn: 2054.4722112 test: 2045.0100913 best: 2045.0100913 (180) total: 3.03s remaining: 318ms
181: learn: 2052.3215023 test: 2042.7980439 best: 2042.7980439 (181) total: 3.05s remaining: 301ms
182: learn: 2050.9126088 test: 2041.3547296 best: 2041.3547296 (182) total: 3.06s remaining: 284ms
183: learn: 2049.6948251 test: 2040.0566592 best: 2040.0566592 (183) total: 3.08s remaining: 267ms
184: learn: 2047.9548962 test: 2038.3324107 best: 2038.3324107 (184) total: 3.09s remaining: 251ms
185: learn: 2046.4491883 test: 2036.8812524 best: 2036.8812524 (185) total: 3.1s remaining: 234ms
186: learn: 2044.4070802 test: 2034.7107482 best: 2034.7107482 (186) total: 3.12s remaining: 217ms
187: learn: 2043.0941242 test: 2033.5274094 best: 2033.5274094 (187) total: 3.14s remaining: 200ms
188: learn: 2041.8110483 test: 2032.1807486 best: 2032.1807486 (188) total: 3.15s remaining: 184ms
189: learn: 2040.2657233 test: 2030.6493088 best: 2030.6493088 (189) total: 3.17s remaining: 167ms
190: learn: 2038.8323568 test: 2029.1905898 best: 2029.1905898 (190) total: 3.18s remaining: 150ms
191: learn: 2036.9092144 test: 2027.2724096 best: 2027.2724096 (191) total: 3.2s remaining: 133ms
192: learn: 2035.2464900 test: 2025.5784072 best: 2025.5784072 (192) total: 3.22s remaining: 117ms
193: learn: 2033.7499317 test: 2023.9536709 best: 2023.9536709 (193) total: 3.24s remaining: 100ms
194: learn: 2032.5767462 test: 2022.8438844 best: 2022.8438844 (194) total: 3.25s remaining: 83.4ms
195: learn: 2031.4143236 test: 2021.5998648 best: 2021.5998648 (195) total: 3.27s remaining: 66.7ms
196: learn: 2030.1933744 test: 2020.3649138 best: 2020.3649138 (196) total: 3.28s remaining: 50ms
197: learn: 2028.4575809 test: 2018.6363498 best: 2018.6363498 (197) total: 3.31s remaining: 33.4ms
198: learn: 2027.3529836 test: 2017.5725009 best: 2017.5725009 (198) total: 3.32s remaining: 16.7ms
199: learn: 2026.2472120 test: 2016.5893817 best: 2016.5893817 (199) total: 3.34s remaining: 0us

bestTest = 2016.589382

bestIteration = 199

46: loss: 2016.5893817 best: 1787.3864554 (43) total: 1m 46s remaining: 1m 50s
0: learn: 6410.8563575 test: 6438.9654331 best: 6438.9654331 (0) total: 18.6ms remaining: 3.69s
1: learn: 5903.2131031 test: 5930.0088410 best: 5930.0088410 (1) total: 34.6ms remaining: 3.43s
2: learn: 5455.2944827 test: 5482.3219094 best: 5482.3219094 (2) total: 51.6ms remaining: 3.39s
3: learn: 5063.2561028 test: 5090.7878631 best: 5090.7878631 (3) total: 71.3ms remaining: 3.49s
4: learn: 4708.2043813 test: 4735.1782050 best: 4735.1782050 (4) total: 87.1ms remaining: 3.4s
5: learn: 4396.9114314 test: 4423.8356541 best: 4423.8356541 (5) total: 103ms remaining: 3.35s
6: learn: 4126.8924396 test: 4152.9342398 best: 4152.9342398 (6) total: 121ms remaining: 3.35s
7: learn: 3885.8066488 test: 3910.8343585 best: 3910.8343585 (7) total: 137ms remaining: 3.29s
8: learn: 3674.0046949 test: 3697.1686075 best: 3697.1686075 (8) total: 153ms remaining: 3.25s
9: learn: 3489.5004507 test: 3511.2678944 best: 3511.2678944 (9) total: 171ms remaining: 3.25s
10: learn: 3330.9076031 test: 3351.7450346 best: 3351.7450346 (10) total: 187ms remaining: 3.22s
11: learn: 3189.9682209 test: 3209.7451065 best: 3209.7451065 (11) total: 204ms remaining: 3.19s

12: learn: 3073.0928377 test: 3091.0349980 best: 3091.0349980 (12) total: 222ms remaining: 3.19s
13: learn: 2962.5480819 test: 2978.9149769 best: 2978.9149769 (13) total: 238ms remaining: 3.16s
14: learn: 2871.8623620 test: 2886.5874795 best: 2886.5874795 (14) total: 256ms remaining: 3.16s
15: learn: 2792.7588890 test: 2805.0597867 best: 2805.0597867 (15) total: 273ms remaining: 3.13s
16: learn: 2724.3178669 test: 2735.7174250 best: 2735.7174250 (16) total: 288ms remaining: 3.1s
17: learn: 2663.9725716 test: 2673.3339101 best: 2673.3339101 (17) total: 303ms remaining: 3.07s
18: learn: 2609.9803939 test: 2618.6599891 best: 2618.6599891 (18) total: 319ms remaining: 3.04s
19: learn: 2563.6073493 test: 2571.5004126 best: 2571.5004126 (19) total: 334ms remaining: 3.01s
20: learn: 2516.8527641 test: 2523.1579557 best: 2523.1579557 (20) total: 354ms remaining: 3.01s
21: learn: 2477.4697981 test: 2482.3870286 best: 2482.3870286 (21) total: 370ms remaining: 2.99s
22: learn: 2441.3147269 test: 2445.1726733 best: 2445.1726733 (22) total: 386ms remaining: 2.97s
23: learn: 2407.9832093 test: 2410.5104652 best: 2410.5104652 (23) total: 403ms remaining: 2.95s
24: learn: 2379.4113671 test: 2380.8693763 best: 2380.8693763 (24) total: 418ms remaining: 2.92s
25: learn: 2355.5790391 test: 2355.7674494 best: 2355.7674494 (25) total: 433ms remaining: 2.89s
26: learn: 2330.7857603 test: 2330.4142020 best: 2330.4142020 (26) total: 450ms remaining: 2.88s
27: learn: 2309.8362764 test: 2309.3350725 best: 2309.3350725 (27) total: 469ms remaining: 2.88s
28: learn: 2290.8002853 test: 2289.9803061 best: 2289.9803061 (28) total: 485ms remaining: 2.86s
29: learn: 2272.2162150 test: 2270.1661252 best: 2270.1661252 (29) total: 500ms remaining: 2.83s
30: learn: 2256.1809039 test: 2253.4531101 best: 2253.4531101 (30) total: 516ms remaining: 2.81s
31: learn: 2242.2960854 test: 2239.0518254 best: 2239.0518254 (31) total: 532ms remaining: 2.79s
32: learn: 2227.2989049 test: 2223.6509977 best: 2223.6509977 (32) total: 552ms remaining: 2.79s
33: learn: 2214.0723893 test: 2209.6572095 best: 2209.6572095 (33) total: 568ms remaining: 2.77s
34: learn: 2201.0360809 test: 2195.3778727 best: 2195.3778727 (34) total: 584ms remaining: 2.75s
35: learn: 2189.1469563 test: 2183.2895826 best: 2183.2895826 (35) total: 600ms remaining: 2.73s
36: learn: 2178.4932055 test: 2172.6689740 best: 2172.6689740 (36) total: 616ms remaining: 2.71s
37: learn: 2168.6160872 test: 2162.7735536 best: 2162.7735536 (37) total: 632ms remaining: 2.69s
38: learn: 2159.3351194 test: 2153.1293883 best: 2153.1293883 (38) total: 647ms remaining: 2.67s
39: learn: 2152.1185059 test: 2145.9140317 best: 2145.9140317 (39) total: 663ms remaining: 2.65s
40: learn: 2142.7534589 test: 2135.5190701 best: 2135.5190701 (40) total: 679ms remaining: 2.63s
41: learn: 2134.2066501 test: 2126.9061039 best: 2126.9061039 (41) total: 694ms remaining: 2.61s
42: learn: 2125.1093732 test: 2117.7965745 best: 2117.7965745 (42) total: 709ms remaining: 2.59s
43: learn: 2117.3190910 test: 2110.0573593 best: 2110.0573593 (43) total: 724ms remaining: 2.57s
44: learn: 2109.1933137 test: 2101.9995505 best: 2101.9995505 (44) total: 740ms remaining: 2.55s
45: learn: 2103.3141567 test: 2096.3142349 best: 2096.3142349 (45) total: 761ms remaining: 2.55s
46: learn: 2095.6002071 test: 2088.7080793 best: 2088.7080793 (46) total: 776ms remaining: 2.52s
47: learn: 2090.2258447 test: 2082.8044096 best: 2082.8044096 (47) total: 791ms remaining: 2.5s
48: learn: 2082.6997059 test: 2075.3699804 best: 2075.3699804 (48) total: 808ms remaining: 2.49s
49: learn: 2077.3285753 test: 2069.7505674 best: 2069.7505674 (49) total: 823ms remaining: 2.47s
50: learn: 2070.3239630 test: 2062.3577634 best: 2062.3577634 (50) total: 837ms remaining: 2.45s
51: learn: 2063.7094398 test: 2055.5857356 best: 2055.5857356 (51) total: 855ms remaining: 2.43s
52: learn: 2055.0336094 test: 2046.3709925 best: 2046.3709925 (52) total: 872ms remaining: 2.42s

53: learn: 2049.8194997 test: 2041.3140751 best: 2041.3140751 (53) total: 887ms remaining: 2.4s
54: learn: 2044.0805026 test: 2035.6882902 best: 2035.6882902 (54) total: 902ms remaining: 2.38s
55: learn: 2037.0147065 test: 2028.6936133 best: 2028.6936133 (55) total: 918ms remaining: 2.36s
56: learn: 2033.0685160 test: 2024.6344489 best: 2024.6344489 (56) total: 932ms remaining: 2.34s
57: learn: 2027.9440339 test: 2019.3483677 best: 2019.3483677 (57) total: 953ms remaining: 2.33s
58: learn: 2024.0005575 test: 2015.8194779 best: 2015.8194779 (58) total: 966ms remaining: 2.31s
59: learn: 2020.4413416 test: 2012.7127990 best: 2012.7127990 (59) total: 982ms remaining: 2.29s
60: learn: 2015.4166541 test: 2007.3946204 best: 2007.3946204 (60) total: 999ms remaining: 2.28s
61: learn: 2008.7283551 test: 2000.2649357 best: 2000.2649357 (61) total: 1.01s remaining: 2.26s
62: learn: 2005.4946874 test: 1996.6852139 best: 1996.6852139 (62) total: 1.03s remaining: 2.25s
63: learn: 2000.8927448 test: 1992.4709447 best: 1992.4709447 (63) total: 1.05s remaining: 2.23s
64: learn: 1997.6890538 test: 1989.9376270 best: 1989.9376270 (64) total: 1.07s remaining: 2.22s
65: learn: 1994.9043786 test: 1987.2822193 best: 1987.2822193 (65) total: 1.08s remaining: 2.2s
66: learn: 1990.1166664 test: 1982.5859875 best: 1982.5859875 (66) total: 1.1s remaining: 2.19s
67: learn: 1985.3943712 test: 1977.6281413 best: 1977.6281413 (67) total: 1.12s remaining: 2.17s
68: learn: 1981.3596273 test: 1973.5790224 best: 1973.5790224 (68) total: 1.13s remaining: 2.15s
69: learn: 1978.1899636 test: 1970.4107169 best: 1970.4107169 (69) total: 1.15s remaining: 2.14s
70: learn: 1974.9538359 test: 1967.2417854 best: 1967.2417854 (70) total: 1.17s remaining: 2.12s
71: learn: 1972.3509579 test: 1964.9209533 best: 1964.9209533 (71) total: 1.18s remaining: 2.1s
72: learn: 1969.8338184 test: 1962.3971175 best: 1962.3971175 (72) total: 1.2s remaining: 2.08s
73: learn: 1966.5136708 test: 1959.0656134 best: 1959.0656134 (73) total: 1.21s remaining: 2.06s
74: learn: 1963.3422020 test: 1955.7896319 best: 1955.7896319 (74) total: 1.23s remaining: 2.05s
75: learn: 1961.4036799 test: 1953.9555577 best: 1953.9555577 (75) total: 1.25s remaining: 2.04s
76: learn: 1958.0209155 test: 1950.5532077 best: 1950.5532077 (76) total: 1.26s remaining: 2.02s
77: learn: 1955.7053619 test: 1947.9802817 best: 1947.9802817 (77) total: 1.28s remaining: 2s
78: learn: 1952.3220009 test: 1944.4908028 best: 1944.4908028 (78) total: 1.29s remaining: 1.98s
79: learn: 1948.7429131 test: 1940.9109921 best: 1940.9109921 (79) total: 1.31s remaining: 1.97s
80: learn: 1946.2545293 test: 1938.5374947 best: 1938.5374947 (80) total: 1.33s remaining: 1.96s
81: learn: 1943.9573775 test: 1936.3659301 best: 1936.3659301 (81) total: 1.35s remaining: 1.95s
82: learn: 1941.0623325 test: 1933.5441411 best: 1933.5441411 (82) total: 1.37s remaining: 1.93s
83: learn: 1939.1062797 test: 1931.4513584 best: 1931.4513584 (83) total: 1.38s remaining: 1.91s
84: learn: 1935.9810606 test: 1928.1626750 best: 1928.1626750 (84) total: 1.4s remaining: 1.89s
85: learn: 1933.7918251 test: 1926.1513009 best: 1926.1513009 (85) total: 1.41s remaining: 1.87s
86: learn: 1930.3745545 test: 1922.7115759 best: 1922.7115759 (86) total: 1.43s remaining: 1.86s
87: learn: 1927.4783038 test: 1920.1541361 best: 1920.1541361 (87) total: 1.45s remaining: 1.84s
88: learn: 1925.6474861 test: 1918.3832964 best: 1918.3832964 (88) total: 1.47s remaining: 1.83s
89: learn: 1923.1310904 test: 1915.8717224 best: 1915.8717224 (89) total: 1.48s remaining: 1.81s
90: learn: 1921.6201360 test: 1914.3601751 best: 1914.3601751 (90) total: 1.5s remaining: 1.79s
91: learn: 1919.8134748 test: 1912.7972947 best: 1912.7972947 (91) total: 1.51s remaining: 1.78s
92: learn: 1918.5103427 test: 1911.8318675 best: 1911.8318675 (92) total: 1.53s remaining: 1.76s
93: learn: 1916.1805795 test: 1909.1761589 best: 1909.1761589 (93) total: 1.55s remaining: 1.75s

94: learn: 1914.6086252 test: 1907.7159367 best: 1907.7159367 (94) total: 1.56s remaining: 1.73s
95: learn: 1911.7369775 test: 1905.0686837 best: 1905.0686837 (95) total: 1.58s remaining: 1.71s
96: learn: 1910.2336851 test: 1903.6638416 best: 1903.6638416 (96) total: 1.6s remaining: 1.7s
97: learn: 1908.9637720 test: 1902.3378182 best: 1902.3378182 (97) total: 1.61s remaining: 1.68s
98: learn: 1907.4874912 test: 1900.9777661 best: 1900.9777661 (98) total: 1.63s remaining: 1.66s
99: learn: 1904.1972161 test: 1897.5020851 best: 1897.5020851 (99) total: 1.64s remaining: 1.64s
100: learn: 1901.4373553 test: 1894.6341821 best: 1894.6341821 (100) total: 1.66s remaining: 1.63s
101: learn: 1899.7123698 test: 1893.0155083 best: 1893.0155083 (101) total: 1.68s remaining: 1.61s
102: learn: 1897.3639736 test: 1890.7060661 best: 1890.7060661 (102) total: 1.69s remaining: 1.59s
103: learn: 1895.6231919 test: 1889.0969989 best: 1889.0969989 (103) total: 1.71s remaining: 1.58s
104: learn: 1894.4548853 test: 1887.6310679 best: 1887.6310679 (104) total: 1.72s remaining: 1.56s
105: learn: 1893.1700372 test: 1886.5091243 best: 1886.5091243 (105) total: 1.74s remaining: 1.54s
106: learn: 1892.1310435 test: 1885.7393529 best: 1885.7393529 (106) total: 1.75s remaining: 1.52s
107: learn: 1889.9105754 test: 1883.4471420 best: 1883.4471420 (107) total: 1.77s remaining: 1.51s
108: learn: 1887.9615346 test: 1881.3101608 best: 1881.3101608 (108) total: 1.78s remaining: 1.49s
109: learn: 1886.3811801 test: 1879.6404236 best: 1879.6404236 (109) total: 1.8s remaining: 1.47s
110: learn: 1884.9957324 test: 1878.6089053 best: 1878.6089053 (110) total: 1.81s remaining: 1.46s
111: learn: 1882.9341337 test: 1876.4570998 best: 1876.4570998 (111) total: 1.83s remaining: 1.44s
112: learn: 1881.6684088 test: 1875.1981019 best: 1875.1981019 (112) total: 1.85s remaining: 1.42s
113: learn: 1878.8711843 test: 1872.2751828 best: 1872.2751828 (113) total: 1.87s remaining: 1.41s
114: learn: 1877.5559849 test: 1870.9932097 best: 1870.9932097 (114) total: 1.89s remaining: 1.4s
115: learn: 1876.2433321 test: 1869.5661996 best: 1869.5661996 (115) total: 1.91s remaining: 1.38s
116: learn: 1875.3355107 test: 1868.7129079 best: 1868.7129079 (116) total: 1.93s remaining: 1.37s
117: learn: 1874.3053608 test: 1867.6819492 best: 1867.6819492 (117) total: 1.95s remaining: 1.35s
118: learn: 1872.3938062 test: 1865.7406993 best: 1865.7406993 (118) total: 1.97s remaining: 1.34s
119: learn: 1871.4697099 test: 1864.9768012 best: 1864.9768012 (119) total: 1.99s remaining: 1.32s
120: learn: 1869.4946183 test: 1862.9397113 best: 1862.9397113 (120) total: 2.01s remaining: 1.31s
121: learn: 1868.3010086 test: 1861.8901821 best: 1861.8901821 (121) total: 2.03s remaining: 1.29s
122: learn: 1867.4202031 test: 1860.9535106 best: 1860.9535106 (122) total: 2.05s remaining: 1.28s
123: learn: 1865.2128028 test: 1858.7002226 best: 1858.7002226 (123) total: 2.07s remaining: 1.27s
124: learn: 1863.9018068 test: 1857.5510171 best: 1857.5510171 (124) total: 2.09s remaining: 1.25s
125: learn: 1862.8477779 test: 1856.7343329 best: 1856.7343329 (125) total: 2.1s remaining: 1.24s
126: learn: 1862.0725013 test: 1855.9654816 best: 1855.9654816 (126) total: 2.12s remaining: 1.22s
127: learn: 1860.4700162 test: 1854.5127143 best: 1854.5127143 (127) total: 2.14s remaining: 1.2s
128: learn: 1859.6763252 test: 1853.7390796 best: 1853.7390796 (128) total: 2.15s remaining: 1.19s
129: learn: 1858.6762822 test: 1852.9994363 best: 1852.9994363 (129) total: 2.17s remaining: 1.17s
130: learn: 1856.7547018 test: 1851.0286298 best: 1851.0286298 (130) total: 2.19s remaining: 1.15s
131: learn: 1855.6202058 test: 1850.2053605 best: 1850.2053605 (131) total: 2.2s remaining: 1.13s
132: learn: 1854.6695228 test: 1849.7471597 best: 1849.7471597 (132) total: 2.22s remaining: 1.12s
133: learn: 1853.2583999 test: 1848.4215426 best: 1848.4215426 (133) total: 2.24s remaining: 1.1s
134: learn: 1852.1412056 test: 1847.4065472 best: 1847.4065472 (134) total: 2.26s remaining: 1.09s
135: learn: 1851.0570000 test: 1846.4400006 best: 1846.4400006 (135) total: 2.27s remaining: 1.07s

135: learn: 1851.0579392 test: 1846.4430336 best: 1846.4430336 (135) total: 2.27s remaining: 1.07s
136: learn: 1849.8287946 test: 1845.3847175 best: 1845.3847175 (136) total: 2.29s remaining: 1.05s
137: learn: 1848.7405297 test: 1844.3515864 best: 1844.3515864 (137) total: 2.3s remaining: 1.03s
138: learn: 1847.0719435 test: 1842.6932570 best: 1842.6932570 (138) total: 2.32s remaining: 1.02s
139: learn: 1845.1986414 test: 1841.0875279 best: 1841.0875279 (139) total: 2.33s remaining: 1s
140: learn: 1843.9823768 test: 1839.8061342 best: 1839.8061342 (140) total: 2.35s remaining: 984ms
141: learn: 1841.8427799 test: 1837.8258639 best: 1837.8258639 (141) total: 2.37s remaining: 967ms
142: learn: 1840.1942906 test: 1836.0850111 best: 1836.0850111 (142) total: 2.38s remaining: 950ms
143: learn: 1839.3384511 test: 1835.3046761 best: 1835.3046761 (143) total: 2.4s remaining: 933ms
144: learn: 1838.3993794 test: 1834.3509060 best: 1834.3509060 (144) total: 2.41s remaining: 915ms
145: learn: 1837.3494441 test: 1833.3045483 best: 1833.3045483 (145) total: 2.43s remaining: 898ms
146: learn: 1836.0128793 test: 1831.8804575 best: 1831.8804575 (146) total: 2.45s remaining: 883ms
147: learn: 1835.1571145 test: 1830.9724075 best: 1830.9724075 (147) total: 2.46s remaining: 866ms
148: learn: 1834.5319601 test: 1830.2906471 best: 1830.2906471 (148) total: 2.48s remaining: 849ms
149: learn: 1833.1244951 test: 1828.8603424 best: 1828.8603424 (149) total: 2.5s remaining: 833ms
150: learn: 1832.0709653 test: 1827.9394366 best: 1827.9394366 (150) total: 2.52s remaining: 817ms
151: learn: 1831.1720173 test: 1827.1732470 best: 1827.1732470 (151) total: 2.54s remaining: 801ms
152: learn: 1830.3717875 test: 1826.5399754 best: 1826.5399754 (152) total: 2.55s remaining: 784ms
153: learn: 1828.7452671 test: 1824.8647704 best: 1824.8647704 (153) total: 2.57s remaining: 769ms
154: learn: 1827.9610860 test: 1824.2689669 best: 1824.2689669 (154) total: 2.59s remaining: 752ms
155: learn: 1827.2036606 test: 1823.9717394 best: 1823.9717394 (155) total: 2.61s remaining: 735ms
156: learn: 1826.3505386 test: 1823.2313253 best: 1823.2313253 (156) total: 2.62s remaining: 718ms
157: learn: 1825.4080756 test: 1822.4081621 best: 1822.4081621 (157) total: 2.64s remaining: 702ms
158: learn: 1824.3462717 test: 1821.2338390 best: 1821.2338390 (158) total: 2.66s remaining: 686ms
159: learn: 1823.3036954 test: 1820.1785194 best: 1820.1785194 (159) total: 2.67s remaining: 668ms
160: learn: 1822.4978259 test: 1819.4021601 best: 1819.4021601 (160) total: 2.69s remaining: 651ms
161: learn: 1821.7756454 test: 1818.7275001 best: 1818.7275001 (161) total: 2.7s remaining: 634ms
162: learn: 1821.1151460 test: 1817.9587289 best: 1817.9587289 (162) total: 2.72s remaining: 617ms
163: learn: 1819.9739060 test: 1816.8183742 best: 1816.8183742 (163) total: 2.73s remaining: 600ms
164: learn: 1819.3208967 test: 1816.0485412 best: 1816.0485412 (164) total: 2.75s remaining: 583ms
165: learn: 1818.4236845 test: 1815.2320451 best: 1815.2320451 (165) total: 2.77s remaining: 566ms
166: learn: 1817.2806857 test: 1814.3330497 best: 1814.3330497 (166) total: 2.78s remaining: 550ms
167: learn: 1815.9606398 test: 1812.9246005 best: 1812.9246005 (167) total: 2.8s remaining: 533ms
168: learn: 1815.3542020 test: 1812.2426623 best: 1812.2426623 (168) total: 2.81s remaining: 516ms
169: learn: 1814.8770652 test: 1811.8710217 best: 1811.8710217 (169) total: 2.83s remaining: 500ms
170: learn: 1813.8853828 test: 1810.8223145 best: 1810.8223145 (170) total: 2.85s remaining: 483ms
171: learn: 1813.2771239 test: 1810.4386329 best: 1810.4386329 (171) total: 2.86s remaining: 466ms
172: learn: 1812.5991586 test: 1809.9107911 best: 1809.9107911 (172) total: 2.88s remaining: 449ms
173: learn: 1811.9482688 test: 1809.3595583 best: 1809.3595583 (173) total: 2.89s remaining: 432ms
174: learn: 1811.1090362 test: 1808.5528864 best: 1808.5528864 (174) total: 2.91s remaining: 416ms
175: learn: 1810.3425072 test: 1807.8610561 best: 1807.8610561 (175) total: 2.92s remaining: 399ms
176: learn: 1809.1505057 test: 1806.7296998 best: 1806.7296998 (176) total: 2.94s remaining: 382ms

177: learn: 1808.6130395 test: 1806.3133971 best: 1806.3133971 (177) total: 2.96s remaining: 365ms
178: learn: 1808.0446262 test: 1805.8339374 best: 1805.8339374 (178) total: 2.97s remaining: 349ms
179: learn: 1807.2831093 test: 1805.3341735 best: 1805.3341735 (179) total: 2.99s remaining: 332ms
180: learn: 1806.6792094 test: 1804.9169102 best: 1804.9169102 (180) total: 3s remaining: 315ms
181: learn: 1806.0093300 test: 1804.2819978 best: 1804.2819978 (181) total: 3.02s remaining: 298ms
182: learn: 1805.4278636 test: 1803.6079625 best: 1803.6079625 (182) total: 3.04s remaining: 282ms
183: learn: 1804.6651200 test: 1802.6135293 best: 1802.6135293 (183) total: 3.06s remaining: 266ms
184: learn: 1804.1731706 test: 1802.2474843 best: 1802.2474843 (184) total: 3.07s remaining: 249ms
185: learn: 1803.3113496 test: 1801.4236301 best: 1801.4236301 (185) total: 3.08s remaining: 232ms
186: learn: 1801.9201799 test: 1799.9482620 best: 1799.9482620 (186) total: 3.1s remaining: 215ms
187: learn: 1800.7517823 test: 1799.1777941 best: 1799.1777941 (187) total: 3.12s remaining: 199ms
188: learn: 1799.7897282 test: 1798.5476694 best: 1798.5476694 (188) total: 3.13s remaining: 182ms
189: learn: 1798.7926902 test: 1797.6595768 best: 1797.6595768 (189) total: 3.15s remaining: 166ms
190: learn: 1798.1529464 test: 1797.2072203 best: 1797.2072203 (190) total: 3.16s remaining: 149ms
191: learn: 1796.8728368 test: 1795.9675548 best: 1795.9675548 (191) total: 3.18s remaining: 132ms
192: learn: 1796.3318274 test: 1795.4258603 best: 1795.4258603 (192) total: 3.19s remaining: 116ms
193: learn: 1795.7464583 test: 1794.8276072 best: 1794.8276072 (193) total: 3.21s remaining: 99.2ms
194: learn: 1795.3550459 test: 1794.4815759 best: 1794.4815759 (194) total: 3.23s remaining: 82.7ms
195: learn: 1794.7992078 test: 1793.8724463 best: 1793.8724463 (195) total: 3.24s remaining: 66.1ms
196: learn: 1794.1525308 test: 1793.4985134 best: 1793.4985134 (196) total: 3.25s remaining: 49.6ms
197: learn: 1793.3383135 test: 1792.6978921 best: 1792.6978921 (197) total: 3.28s remaining: 33.1ms
198: learn: 1792.8510397 test: 1792.3001414 best: 1792.3001414 (198) total: 3.29s remaining: 16.5ms
199: learn: 1792.0891479 test: 1791.7210994 best: 1791.7210994 (199) total: 3.31s remaining: 0us

bestTest = 1791.721099

bestIteration = 199

47: loss: 1791.7210994 best: 1787.3864554 (43) total: 1m 49s remaining: 1m 49s
0: learn: 6804.5612021 test: 6832.1518187 best: 6832.1518187 (0) total: 21.4ms remaining: 2.12s
1: learn: 6635.9072011 test: 6663.3119347 best: 6663.3119347 (1) total: 42.4ms remaining: 2.08s
2: learn: 6471.8964804 test: 6499.4334415 best: 6499.4334415 (2) total: 62ms remaining: 2s
3: learn: 6311.0186572 test: 6338.1499885 best: 6338.1499885 (3) total: 82.5ms remaining: 1.98s
4: learn: 6157.4860930 test: 6184.3781802 best: 6184.3781802 (4) total: 107ms remaining: 2.03s
5: learn: 6007.8230759 test: 6034.6949215 best: 6034.6949215 (5) total: 128ms remaining: 2s
6: learn: 5862.8958290 test: 5889.7365318 best: 5889.7365318 (6) total: 149ms remaining: 1.97s
7: learn: 5723.0042769 test: 5749.6073944 best: 5749.6073944 (7) total: 168ms remaining: 1.93s
8: learn: 5587.8935436 test: 5613.8942951 best: 5613.8942951 (8) total: 188ms remaining: 1.9s
9: learn: 5457.5123889 test: 5483.3485196 best: 5483.3485196 (9) total: 210ms remaining: 1.89s
10: learn: 5331.8883012 test: 5357.5295375 best: 5357.5295375 (10) total: 232ms remaining: 1.88s
11: learn: 5209.4517141 test: 5234.5889502 best: 5234.5889502 (11) total: 253ms remaining: 1.85s
12: learn: 5092.3169447 test: 5117.2985474 best: 5117.2985474 (12) total: 272ms remaining: 1.82s

13: learn: 4977.0879034 test: 5001.7619413 best: 5001.7619413 (13) total: 292ms remaining: 1.79s
14: learn: 4867.2662687 test: 4891.3801532 best: 4891.3801532 (14) total: 316ms remaining: 1.79s
15: learn: 4762.5950120 test: 4786.1038613 best: 4786.1038613 (15) total: 335ms remaining: 1.76s
16: learn: 4660.3708172 test: 4683.6653039 best: 4683.6653039 (16) total: 354ms remaining: 1.73s
17: learn: 4565.1218285 test: 4588.4880786 best: 4588.4880786 (17) total: 374ms remaining: 1.7s
18: learn: 4468.5790812 test: 4491.8082970 best: 4491.8082970 (18) total: 394ms remaining: 1.68s
19: learn: 4375.4412614 test: 4398.2708795 best: 4398.2708795 (19) total: 415ms remaining: 1.66s
20: learn: 4287.8873926 test: 4310.5037113 best: 4310.5037113 (20) total: 435ms remaining: 1.63s
21: learn: 4203.4600076 test: 4225.4460508 best: 4225.4460508 (21) total: 455ms remaining: 1.61s
22: learn: 4120.5259736 test: 4142.1130818 best: 4142.1130818 (22) total: 474ms remaining: 1.59s
23: learn: 4042.4858484 test: 4063.4379100 best: 4063.4379100 (23) total: 495ms remaining: 1.57s
24: learn: 3965.5624986 test: 3986.1718694 best: 3986.1718694 (24) total: 518ms remaining: 1.55s
25: learn: 3893.2921850 test: 3913.5829988 best: 3913.5829988 (25) total: 540ms remaining: 1.53s
26: learn: 3821.1303096 test: 3840.9003612 best: 3840.9003612 (26) total: 559ms remaining: 1.51s
27: learn: 3750.8291273 test: 3770.1936610 best: 3770.1936610 (27) total: 579ms remaining: 1.49s
28: learn: 3684.9395562 test: 3704.0804700 best: 3704.0804700 (28) total: 600ms remaining: 1.47s
29: learn: 3622.0309539 test: 3640.6438362 best: 3640.6438362 (29) total: 619ms remaining: 1.45s
30: learn: 3559.3872273 test: 3577.5910502 best: 3577.5910502 (30) total: 638ms remaining: 1.42s
31: learn: 3499.4576058 test: 3517.2702857 best: 3517.2702857 (31) total: 659ms remaining: 1.4s
32: learn: 3442.6060372 test: 3459.8220877 best: 3459.8220877 (32) total: 678ms remaining: 1.38s
33: learn: 3388.3555594 test: 3405.3432761 best: 3405.3432761 (33) total: 696ms remaining: 1.35s
34: learn: 3335.4491080 test: 3352.1923331 best: 3352.1923331 (34) total: 716ms remaining: 1.33s
35: learn: 3284.1396480 test: 3300.3162036 best: 3300.3162036 (35) total: 735ms remaining: 1.3s
36: learn: 3235.6638090 test: 3251.4084671 best: 3251.4084671 (36) total: 754ms remaining: 1.28s
37: learn: 3188.2564258 test: 3203.4779571 best: 3203.4779571 (37) total: 774ms remaining: 1.26s
38: learn: 3144.3489099 test: 3159.1324862 best: 3159.1324862 (38) total: 793ms remaining: 1.24s
39: learn: 3101.6130065 test: 3116.0168362 best: 3116.0168362 (39) total: 817ms remaining: 1.23s
40: learn: 3060.0538543 test: 3074.2342627 best: 3074.2342627 (40) total: 837ms remaining: 1.2s
41: learn: 3020.2461523 test: 3033.7844790 best: 3033.7844790 (41) total: 856ms remaining: 1.18s
42: learn: 2980.7431489 test: 2994.0879501 best: 2994.0879501 (42) total: 876ms remaining: 1.16s
43: learn: 2944.7226147 test: 2957.8184334 best: 2957.8184334 (43) total: 895ms remaining: 1.14s
44: learn: 2910.0107994 test: 2922.7023162 best: 2922.7023162 (44) total: 916ms remaining: 1.12s
45: learn: 2876.8403616 test: 2889.2157432 best: 2889.2157432 (45) total: 936ms remaining: 1.1s
46: learn: 2844.4619315 test: 2856.2496452 best: 2856.2496452 (46) total: 955ms remaining: 1.08s
47: learn: 2813.9348523 test: 2825.6042869 best: 2825.6042869 (47) total: 977ms remaining: 1.06s
48: learn: 2783.7205012 test: 2794.7730384 best: 2794.7730384 (48) total: 1s remaining: 1.04s
49: learn: 2755.2829758 test: 2765.7993809 best: 2765.7993809 (49) total: 1.02s remaining: 1.02s
50: learn: 2727.9243666 test: 2737.7051874 best: 2737.7051874 (50) total: 1.04s remaining: 1s
51: learn: 2701.0597194 test: 2710.0595102 best: 2710.0595102 (51) total: 1.06s remaining: 982ms
52: learn: 2675.6769330 test: 2684.1847165 best: 2684.1847165 (52) total: 1.08s remaining: 960ms
53: learn: 2651.8029342 test: 2659.9886661 best: 2659.9886661 (53) total: 1.1s remaining: 940ms

54: learn: 2628.1449476 test: 2635.8194029 best: 2635.8194029 (54) total: 1.12s remaining: 919ms
55: learn: 2605.6994495 test: 2612.8170890 best: 2612.8170890 (55) total: 1.14s remaining: 899ms
56: learn: 2583.9826867 test: 2590.5554525 best: 2590.5554525 (56) total: 1.16s remaining: 877ms
57: learn: 2562.9729179 test: 2569.0847052 best: 2569.0847052 (57) total: 1.18s remaining: 855ms
58: learn: 2542.0982434 test: 2547.7834261 best: 2547.7834261 (58) total: 1.2s remaining: 836ms
59: learn: 2523.1313185 test: 2528.5402456 best: 2528.5402456 (59) total: 1.22s remaining: 814ms
60: learn: 2504.5138502 test: 2509.4883999 best: 2509.4883999 (60) total: 1.24s remaining: 793ms
61: learn: 2487.2495449 test: 2491.9190422 best: 2491.9190422 (61) total: 1.26s remaining: 771ms
62: learn: 2469.7670396 test: 2473.9973531 best: 2473.9973531 (62) total: 1.28s remaining: 750ms
63: learn: 2452.6816976 test: 2456.5235514 best: 2456.5235514 (63) total: 1.3s remaining: 730ms
64: learn: 2437.0365486 test: 2440.4743384 best: 2440.4743384 (64) total: 1.32s remaining: 709ms
65: learn: 2421.3578449 test: 2424.4767704 best: 2424.4767704 (65) total: 1.33s remaining: 688ms
66: learn: 2406.2671952 test: 2408.9644224 best: 2408.9644224 (66) total: 1.35s remaining: 666ms
67: learn: 2392.5189373 test: 2394.8477054 best: 2394.8477054 (67) total: 1.37s remaining: 645ms
68: learn: 2379.1974051 test: 2381.1502976 best: 2381.1502976 (68) total: 1.4s remaining: 627ms
69: learn: 2365.5696068 test: 2367.2423310 best: 2367.2423310 (69) total: 1.42s remaining: 607ms
70: learn: 2352.5219824 test: 2353.7861684 best: 2353.7861684 (70) total: 1.43s remaining: 586ms
71: learn: 2340.4113668 test: 2341.3690012 best: 2341.3690012 (71) total: 1.45s remaining: 565ms
72: learn: 2328.3048226 test: 2328.9564415 best: 2328.9564415 (72) total: 1.47s remaining: 543ms
73: learn: 2317.1880243 test: 2317.5690381 best: 2317.5690381 (73) total: 1.49s remaining: 523ms
74: learn: 2306.0507874 test: 2306.2651589 best: 2306.2651589 (74) total: 1.51s remaining: 502ms
75: learn: 2293.6630861 test: 2293.6037970 best: 2293.6037970 (75) total: 1.52s remaining: 482ms
76: learn: 2282.5510893 test: 2282.2074727 best: 2282.2074727 (76) total: 1.54s remaining: 461ms
77: learn: 2271.0164593 test: 2270.4621679 best: 2270.4621679 (77) total: 1.56s remaining: 441ms
78: learn: 2261.5038092 test: 2260.6808649 best: 2260.6808649 (78) total: 1.58s remaining: 420ms
79: learn: 2252.0808992 test: 2251.0694866 best: 2251.0694866 (79) total: 1.6s remaining: 401ms
80: learn: 2242.0009865 test: 2240.8101373 best: 2240.8101373 (80) total: 1.62s remaining: 380ms
81: learn: 2233.2974710 test: 2232.0590538 best: 2232.0590538 (81) total: 1.64s remaining: 360ms
82: learn: 2224.7662483 test: 2223.2954722 best: 2223.2954722 (82) total: 1.66s remaining: 340ms
83: learn: 2216.8571824 test: 2215.2751891 best: 2215.2751891 (83) total: 1.68s remaining: 319ms
84: learn: 2208.7930741 test: 2206.7452011 best: 2206.7452011 (84) total: 1.7s remaining: 300ms
85: learn: 2201.1837940 test: 2198.9550362 best: 2198.9550362 (85) total: 1.73s remaining: 282ms
86: learn: 2192.8632696 test: 2190.2791322 best: 2190.2791322 (86) total: 1.76s remaining: 263ms
87: learn: 2186.2869251 test: 2183.4165102 best: 2183.4165102 (87) total: 1.78s remaining: 242ms
88: learn: 2179.6103931 test: 2176.3250262 best: 2176.3250262 (88) total: 1.8s remaining: 222ms
89: learn: 2172.5205335 test: 2169.0823958 best: 2169.0823958 (89) total: 1.82s remaining: 202ms
90: learn: 2165.8219903 test: 2162.0908842 best: 2162.0908842 (90) total: 1.83s remaining: 182ms
91: learn: 2158.0859151 test: 2154.1825778 best: 2154.1825778 (91) total: 1.85s remaining: 161ms
92: learn: 2151.6327872 test: 2147.4596342 best: 2147.4596342 (92) total: 1.87s remaining: 141ms
93: learn: 2145.7392469 test: 2141.4625839 best: 2141.4625839 (93) total: 1.89s remaining: 121ms
94: learn: 2139.9357124 test: 2135.4650445 best: 2135.4650445 (94) total: 1.91s remaining: 101ms
95: learn: 2134.4125800 test: 2129.8752555 best: 2129.8752555 (95) total: 1.92s remaining: 90.6ms

95: learn: 2134.4155800 test: 2129.8752555 best: 2129.8752555 (95) total: 1.95s remaining: 60.6ms
96: learn: 2129.0797392 test: 2124.2790467 best: 2124.2790467 (96) total: 1.95s remaining: 60.4ms
97: learn: 2123.6816906 test: 2118.7773260 best: 2118.7773260 (97) total: 1.97s remaining: 40.3ms
98: learn: 2118.0448915 test: 2112.9487727 best: 2112.9487727 (98) total: 2s remaining: 20.2ms
99: learn: 2113.2825687 test: 2108.0455614 best: 2108.0455614 (99) total: 2.02s remaining: 0us

bestTest = 2108.045561

bestIteration = 99

48: loss: 2108.0455614 best: 1787.3864554 (43) total: 1m 51s remaining: 1m 47s
0: learn: 6393.6683215 test: 6420.0788713 best: 6420.0788713 (0) total: 20.5ms remaining: 2.03s
1: learn: 5880.7661970 test: 5906.6708360 best: 5906.6708360 (1) total: 40ms remaining: 1.96s
2: learn: 5412.1284567 test: 5437.8372776 best: 5437.8372776 (2) total: 61.6ms remaining: 1.99s
3: learn: 5002.1028345 test: 5027.0492732 best: 5027.0492732 (3) total: 84.4ms remaining: 2.03s
4: learn: 4639.4152616 test: 4663.2663912 best: 4663.2663912 (4) total: 105ms remaining: 1.99s
5: learn: 4317.6965705 test: 4340.9483172 best: 4340.9483172 (5) total: 124ms remaining: 1.95s
6: learn: 4028.6557988 test: 4050.4034335 best: 4050.4034335 (6) total: 143ms remaining: 1.9s
7: learn: 3773.5612783 test: 3794.1905463 best: 3794.1905463 (7) total: 167ms remaining: 1.92s
8: learn: 3552.2443661 test: 3570.9005814 best: 3570.9005814 (8) total: 187ms remaining: 1.89s
9: learn: 3357.9209897 test: 3376.0619296 best: 3376.0619296 (9) total: 206ms remaining: 1.85s
10: learn: 3189.7096310 test: 3205.9776836 best: 3205.9776836 (10) total: 226ms remaining: 1.82s
11: learn: 3041.8550902 test: 3056.4804548 best: 3056.4804548 (11) total: 245ms remaining: 1.79s
12: learn: 2919.0601519 test: 2932.4405524 best: 2932.4405524 (12) total: 265ms remaining: 1.77s
13: learn: 2803.1109467 test: 2815.4329311 best: 2815.4329311 (13) total: 284ms remaining: 1.74s
14: learn: 2705.7633348 test: 2715.9570922 best: 2715.9570922 (14) total: 303ms remaining: 1.71s
15: learn: 2620.3703734 test: 2628.7397901 best: 2628.7397901 (15) total: 322ms remaining: 1.69s
16: learn: 2545.2130937 test: 2552.4355260 best: 2552.4355260 (16) total: 340ms remaining: 1.66s
17: learn: 2481.6566370 test: 2487.1433481 best: 2487.1433481 (17) total: 361ms remaining: 1.64s
18: learn: 2426.7886137 test: 2431.4233666 best: 2431.4233666 (18) total: 380ms remaining: 1.62s
19: learn: 2378.8526848 test: 2381.7550125 best: 2381.7550125 (19) total: 398ms remaining: 1.59s
20: learn: 2335.7471057 test: 2337.7378652 best: 2337.7378652 (20) total: 416ms remaining: 1.56s
21: learn: 2296.6059667 test: 2297.4442296 best: 2297.4442296 (21) total: 434ms remaining: 1.54s
22: learn: 2262.0164022 test: 2261.2300432 best: 2261.2300432 (22) total: 463ms remaining: 1.55s
23: learn: 2231.4587618 test: 2230.0128231 best: 2230.0128231 (23) total: 483ms remaining: 1.53s
24: learn: 2205.8578095 test: 2203.4692544 best: 2203.4692544 (24) total: 501ms remaining: 1.5s
25: learn: 2181.8713903 test: 2179.0574718 best: 2179.0574718 (25) total: 520ms remaining: 1.48s
26: learn: 2161.2733850 test: 2157.3817264 best: 2157.3817264 (26) total: 539ms remaining: 1.46s
27: learn: 2142.2764132 test: 2138.2172091 best: 2138.2172091 (27) total: 557ms remaining: 1.43s
28: learn: 2118.8750754 test: 2114.6018645 best: 2114.6018645 (28) total: 577ms remaining: 1.41s
29: learn: 2103.5371318 test: 2098.9924029 best: 2098.9924029 (29) total: 603ms remaining: 1.41s
30: learn: 2087.9980356 test: 2082.7007655 best: 2082.7007655 (30) total: 623ms remaining: 1.39s
31: learn: 2070.9059790 test: 2064.7534974 best: 2064.7534974 (31) total: 643ms remaining: 1.37s

32: learn: 2059.5302615 test: 2053.6878232 best: 2053.6878232 (32) total: 671ms remaining: 1.36s
33: learn: 2047.1252621 test: 2040.8984885 best: 2040.8984885 (33) total: 699ms remaining: 1.36s
34: learn: 2032.6729282 test: 2025.9895232 best: 2025.9895232 (34) total: 722ms remaining: 1.34s
35: learn: 2023.0652606 test: 2016.6085194 best: 2016.6085194 (35) total: 743ms remaining: 1.32s
36: learn: 2014.3521926 test: 2007.8840086 best: 2007.8840086 (36) total: 770ms remaining: 1.31s
37: learn: 2006.0704962 test: 1999.2618614 best: 1999.2618614 (37) total: 793ms remaining: 1.29s
38: learn: 1998.5401108 test: 1991.7512797 best: 1991.7512797 (38) total: 813ms remaining: 1.27s
39: learn: 1986.9315932 test: 1979.6615047 best: 1979.6615047 (39) total: 837ms remaining: 1.25s
40: learn: 1980.5514847 test: 1973.2371641 best: 1973.2371641 (40) total: 860ms remaining: 1.24s
41: learn: 1971.8334006 test: 1964.5024975 best: 1964.5024975 (41) total: 887ms remaining: 1.22s
42: learn: 1964.7855708 test: 1957.0961273 best: 1957.0961273 (42) total: 906ms remaining: 1.2s
43: learn: 1958.5305973 test: 1950.8385928 best: 1950.8385928 (43) total: 927ms remaining: 1.18s
44: learn: 1952.8354640 test: 1944.9209626 best: 1944.9209626 (44) total: 946ms remaining: 1.16s
45: learn: 1946.8092463 test: 1938.6877116 best: 1938.6877116 (45) total: 976ms remaining: 1.15s
46: learn: 1941.3923700 test: 1933.6714248 best: 1933.6714248 (46) total: 997ms remaining: 1.12s
47: learn: 1937.0437250 test: 1929.3526147 best: 1929.3526147 (47) total: 1.01s remaining: 1.1s
48: learn: 1930.1734760 test: 1922.4349756 best: 1922.4349756 (48) total: 1.03s remaining: 1.08s
49: learn: 1925.3261263 test: 1917.4016831 best: 1917.4016831 (49) total: 1.06s remaining: 1.06s
50: learn: 1921.2478583 test: 1913.6410503 best: 1913.6410503 (50) total: 1.08s remaining: 1.04s
51: learn: 1914.5127228 test: 1907.7037402 best: 1907.7037402 (51) total: 1.1s remaining: 1.02s
52: learn: 1911.1105975 test: 1904.4964910 best: 1904.4964910 (52) total: 1.12s remaining: 993ms
53: learn: 1907.7982643 test: 1901.1269033 best: 1901.1269033 (53) total: 1.14s remaining: 969ms
54: learn: 1904.7956015 test: 1898.2015948 best: 1898.2015948 (54) total: 1.16s remaining: 949ms
55: learn: 1900.3859350 test: 1893.5231529 best: 1893.5231529 (55) total: 1.18s remaining: 931ms
56: learn: 1896.3304700 test: 1889.6190806 best: 1889.6190806 (56) total: 1.2s remaining: 907ms
57: learn: 1891.7128011 test: 1884.8963136 best: 1884.8963136 (57) total: 1.22s remaining: 885ms
58: learn: 1889.0431735 test: 1882.8758049 best: 1882.8758049 (58) total: 1.24s remaining: 862ms
59: learn: 1884.6572319 test: 1878.3244370 best: 1878.3244370 (59) total: 1.27s remaining: 847ms
60: learn: 1879.7775296 test: 1873.4690499 best: 1873.4690499 (60) total: 1.29s remaining: 825ms
61: learn: 1876.9233524 test: 1870.4132789 best: 1870.4132789 (61) total: 1.31s remaining: 801ms
62: learn: 1873.6397489 test: 1867.3546087 best: 1867.3546087 (62) total: 1.32s remaining: 778ms
63: learn: 1871.2406321 test: 1865.2699514 best: 1865.2699514 (63) total: 1.34s remaining: 755ms
64: learn: 1868.3465709 test: 1862.8325043 best: 1862.8325043 (64) total: 1.37s remaining: 738ms
65: learn: 1866.3324756 test: 1860.9752071 best: 1860.9752071 (65) total: 1.39s remaining: 714ms
66: learn: 1864.0026805 test: 1858.8354747 best: 1858.8354747 (66) total: 1.4s remaining: 692ms
67: learn: 1861.6382583 test: 1856.5388546 best: 1856.5388546 (67) total: 1.42s remaining: 670ms
68: learn: 1858.8274336 test: 1853.7302159 best: 1853.7302159 (68) total: 1.44s remaining: 648ms
69: learn: 1856.5586930 test: 1851.6652603 best: 1851.6652603 (69) total: 1.47s remaining: 631ms
70: learn: 1853.9655898 test: 1849.0785196 best: 1849.0785196 (70) total: 1.49s remaining: 608ms
71: learn: 1849.4269779 test: 1844.4298164 best: 1844.4298164 (71) total: 1.51s remaining: 587ms
72: learn: 1847.5244065 test: 1842.3819971 best: 1842.3819971 (72) total: 1.53s remaining: 564ms

73: learn: 1845.3226823 test: 1840.1532801 best: 1840.1532801 (73) total: 1.54s remaining: 542ms
74: learn: 1842.8413795 test: 1837.8333551 best: 1837.8333551 (74) total: 1.57s remaining: 523ms
75: learn: 1839.4042511 test: 1835.0267228 best: 1835.0267228 (75) total: 1.59s remaining: 501ms
76: learn: 1838.0078394 test: 1833.9169119 best: 1833.9169119 (76) total: 1.6s remaining: 479ms
77: learn: 1836.6960672 test: 1832.4131564 best: 1832.4131564 (77) total: 1.62s remaining: 457ms
78: learn: 1835.2139034 test: 1831.3444619 best: 1831.3444619 (78) total: 1.64s remaining: 437ms
79: learn: 1832.4118997 test: 1829.2094653 best: 1829.2094653 (79) total: 1.67s remaining: 419ms
80: learn: 1829.7348850 test: 1827.1949229 best: 1827.1949229 (80) total: 1.69s remaining: 398ms
81: learn: 1828.1768289 test: 1825.5131797 best: 1825.5131797 (81) total: 1.71s remaining: 376ms
82: learn: 1824.4299973 test: 1822.0200988 best: 1822.0200988 (82) total: 1.73s remaining: 355ms
83: learn: 1823.0816791 test: 1820.8259657 best: 1820.8259657 (83) total: 1.76s remaining: 336ms
84: learn: 1821.0351697 test: 1818.7947445 best: 1818.7947445 (84) total: 1.78s remaining: 314ms
85: learn: 1819.5573281 test: 1817.3927410 best: 1817.3927410 (85) total: 1.8s remaining: 293ms
86: learn: 1818.2616658 test: 1816.0826067 best: 1816.0826067 (86) total: 1.82s remaining: 271ms
87: learn: 1816.0677428 test: 1813.9326796 best: 1813.9326796 (87) total: 1.83s remaining: 250ms
88: learn: 1814.7723742 test: 1812.7149739 best: 1812.7149739 (88) total: 1.87s remaining: 231ms
89: learn: 1812.2677669 test: 1810.6179296 best: 1810.6179296 (89) total: 1.89s remaining: 210ms
90: learn: 1810.6885182 test: 1809.1725982 best: 1809.1725982 (90) total: 1.9s remaining: 188ms
91: learn: 1808.2627170 test: 1806.8400879 best: 1806.8400879 (91) total: 1.92s remaining: 167ms
92: learn: 1806.2334154 test: 1804.8309374 best: 1804.8309374 (92) total: 1.94s remaining: 146ms
93: learn: 1804.6404634 test: 1803.6400405 best: 1803.6400405 (93) total: 1.97s remaining: 126ms
94: learn: 1803.0230184 test: 1802.0903276 best: 1802.0903276 (94) total: 1.99s remaining: 105ms
95: learn: 1801.1658474 test: 1800.4207030 best: 1800.4207030 (95) total: 2.01s remaining: 83.7ms
96: learn: 1799.2493007 test: 1798.8969393 best: 1798.8969393 (96) total: 2.03s remaining: 62.7ms
97: learn: 1797.6832497 test: 1797.5003410 best: 1797.5003410 (97) total: 2.05s remaining: 41.8ms
98: learn: 1796.3492526 test: 1796.1911928 best: 1796.1911928 (98) total: 2.08s remaining: 21ms
99: learn: 1794.1019032 test: 1794.1653449 best: 1794.1653449 (99) total: 2.1s remaining: 0us

bestTest = 1794.165345

bestIteration = 99

49: loss: 1794.1653449 best: 1787.3864554 (43) total: 1m 53s remaining: 1m 44s
0: learn: 6804.5787932 test: 6832.1690385 best: 6832.1690385 (0) total: 21.6ms remaining: 2.14s
1: learn: 6635.9582404 test: 6663.3605190 best: 6663.3605190 (1) total: 54.5ms remaining: 2.67s
2: learn: 6471.9592156 test: 6499.4936652 best: 6499.4936652 (2) total: 73.3ms remaining: 2.37s
3: learn: 6311.0966060 test: 6338.2259853 best: 6338.2259853 (3) total: 93.3ms remaining: 2.24s
4: learn: 6157.5804761 test: 6184.4721737 best: 6184.4721737 (4) total: 113ms remaining: 2.15s
5: learn: 6007.9352368 test: 6034.8070908 best: 6034.8070908 (5) total: 147ms remaining: 2.3s
6: learn: 5863.0232139 test: 5889.8635793 best: 5889.8635793 (6) total: 168ms remaining: 2.23s
7: learn: 5723.1429865 test: 5749.7447001 best: 5749.7447001 (7) total: 188ms remaining: 2.16s
8: learn: 5588.0566775 test: 5614.0572443 best: 5614.0572443 (8) total: 208ms remaining: 2.1s

9: learn: 5457.6855528 test: 5483.5220932 best: 5483.5220932 (9) total: 232ms remaining: 2.09s
10: learn: 5332.0741814 test: 5357.7160826 best: 5357.7160826 (10) total: 260ms remaining: 2.11s
11: learn: 5209.6432833 test: 5234.7811520 best: 5234.7811520 (11) total: 280ms remaining: 2.05s
12: learn: 5092.5279844 test: 5117.5109034 best: 5117.5109034 (12) total: 300ms remaining: 2.01s
13: learn: 4977.3028901 test: 5001.9784874 best: 5001.9784874 (13) total: 320ms remaining: 1.97s
14: learn: 4867.4866420 test: 4891.6020485 best: 4891.6020485 (14) total: 352ms remaining: 1.99s
15: learn: 4762.8180672 test: 4786.3284793 best: 4786.3284793 (15) total: 373ms remaining: 1.96s
16: learn: 4660.6006723 test: 4683.8963656 best: 4683.8963656 (16) total: 395ms remaining: 1.93s
17: learn: 4565.3529958 test: 4588.7195619 best: 4588.7195619 (17) total: 416ms remaining: 1.9s
18: learn: 4468.8129616 test: 4492.0424047 best: 4492.0424047 (18) total: 453ms remaining: 1.93s
19: learn: 4375.6751113 test: 4398.5049574 best: 4398.5049574 (19) total: 478ms remaining: 1.91s
20: learn: 4288.1191746 test: 4310.7356557 best: 4310.7356557 (20) total: 499ms remaining: 1.88s
21: learn: 4203.6929568 test: 4225.6794159 best: 4225.6794159 (21) total: 523ms remaining: 1.85s
22: learn: 4120.7637892 test: 4142.3508713 best: 4142.3508713 (22) total: 556ms remaining: 1.86s
23: learn: 4042.7231834 test: 4063.6752578 best: 4063.6752578 (23) total: 580ms remaining: 1.84s
24: learn: 3965.8028544 test: 3986.4120236 best: 3986.4120236 (24) total: 602ms remaining: 1.81s
25: learn: 3893.5400939 test: 3913.8309259 best: 3913.8309259 (25) total: 632ms remaining: 1.8s
26: learn: 3821.3873753 test: 3841.1546669 best: 3841.1546669 (26) total: 660ms remaining: 1.78s
27: learn: 3751.0846785 test: 3770.4465379 best: 3770.4465379 (27) total: 680ms remaining: 1.75s
28: learn: 3685.2075890 test: 3704.3433285 best: 3704.3433285 (28) total: 699ms remaining: 1.71s
29: learn: 3622.3034880 test: 3640.9121686 best: 3640.9121686 (29) total: 720ms remaining: 1.68s
30: learn: 3559.6564361 test: 3577.8558949 best: 3577.8558949 (30) total: 749ms remaining: 1.67s
31: learn: 3499.7249593 test: 3517.5332156 best: 3517.5332156 (31) total: 770ms remaining: 1.64s
32: learn: 3442.8700516 test: 3460.0817163 best: 3460.0817163 (32) total: 791ms remaining: 1.61s
33: learn: 3388.6213215 test: 3405.6045989 best: 3405.6045989 (33) total: 812ms remaining: 1.57s
34: learn: 3335.7096775 test: 3352.4485017 best: 3352.4485017 (34) total: 841ms remaining: 1.56s
35: learn: 3284.3980431 test: 3300.5698711 best: 3300.5698711 (35) total: 860ms remaining: 1.53s
36: learn: 3235.9281569 test: 3251.6653804 best: 3251.6653804 (36) total: 879ms remaining: 1.5s
37: learn: 3188.5251192 test: 3203.7410680 best: 3203.7410680 (37) total: 899ms remaining: 1.47s
38: learn: 3144.6259028 test: 3159.3966397 best: 3159.3966397 (38) total: 930ms remaining: 1.45s
39: learn: 3101.8845173 test: 3116.2754209 best: 3116.2754209 (39) total: 955ms remaining: 1.43s
40: learn: 3060.3259711 test: 3074.4943973 best: 3074.4943973 (40) total: 975ms remaining: 1.4s
41: learn: 3020.5178291 test: 3034.0444887 best: 3034.0444887 (41) total: 993ms remaining: 1.37s
42: learn: 2981.0091780 test: 2994.3423422 best: 2994.3423422 (42) total: 1.01s remaining: 1.34s
43: learn: 2944.9840523 test: 2958.0681584 best: 2958.0681584 (43) total: 1.04s remaining: 1.32s
44: learn: 2910.3165168 test: 2922.8633410 best: 2922.8633410 (44) total: 1.06s remaining: 1.3s
45: learn: 2877.1096677 test: 2889.3400059 best: 2889.3400059 (45) total: 1.08s remaining: 1.27s
46: learn: 2844.7654938 test: 2856.4041688 best: 2856.4041688 (46) total: 1.1s remaining: 1.24s
47: learn: 2814.2610814 test: 2825.6958647 best: 2825.6958647 (47) total: 1.12s remaining: 1.22s
48: learn: 2784.1806803 test: 2795.2307543 best: 2795.2307543 (48) total: 1.15s remaining: 1.2s
49: learn: 2755.8167392 test: 2766.3252916 best: 2766.3252916 (49) total: 1.17s remaining: 1.17s
50: learn: 2728.5109906 test: 2738.2808973 best: 2738.2808973 (50) total: 1.19s remaining: 1.14s

30: learn: 2720.3103300 test: 2700.2800370 best: 2700.2800370 (30) total: 1.13s remaining: 1.14s
51: learn: 2701.5888246 test: 2710.5739504 best: 2710.5739504 (51) total: 1.21s remaining: 1.12s
52: learn: 2676.1602268 test: 2684.6501450 best: 2684.6501450 (52) total: 1.24s remaining: 1.1s
53: learn: 2652.3045335 test: 2660.4677005 best: 2660.4677005 (53) total: 1.26s remaining: 1.07s
54: learn: 2628.6017470 test: 2636.2490382 best: 2636.2490382 (54) total: 1.28s remaining: 1.05s
55: learn: 2605.4234704 test: 2612.7040568 best: 2612.7040568 (55) total: 1.3s remaining: 1.02s
56: learn: 2583.8259400 test: 2590.5656575 best: 2590.5656575 (56) total: 1.32s remaining: 996ms
57: learn: 2563.4979655 test: 2569.8351364 best: 2569.8351364 (57) total: 1.34s remaining: 970ms
58: learn: 2542.5942805 test: 2548.4675002 best: 2548.4675002 (58) total: 1.36s remaining: 945ms
59: learn: 2523.7400174 test: 2529.2565109 best: 2529.2565109 (59) total: 1.38s remaining: 919ms
60: learn: 2505.0883382 test: 2510.0436829 best: 2510.0436829 (60) total: 1.4s remaining: 893ms
61: learn: 2487.4829189 test: 2491.8529042 best: 2491.8529042 (61) total: 1.42s remaining: 869ms
62: learn: 2470.4466712 test: 2474.5158772 best: 2474.5158772 (62) total: 1.44s remaining: 845ms
63: learn: 2452.8529161 test: 2456.7000494 best: 2456.7000494 (63) total: 1.46s remaining: 820ms
64: learn: 2436.5056463 test: 2439.7297549 best: 2439.7297549 (64) total: 1.48s remaining: 795ms
65: learn: 2420.6654368 test: 2423.6243881 best: 2423.6243881 (65) total: 1.5s remaining: 772ms
66: learn: 2405.4621122 test: 2407.9770126 best: 2407.9770126 (66) total: 1.53s remaining: 752ms
67: learn: 2391.7689768 test: 2394.0825554 best: 2394.0825554 (67) total: 1.55s remaining: 729ms
68: learn: 2378.1564467 test: 2380.1297245 best: 2380.1297245 (68) total: 1.57s remaining: 705ms
69: learn: 2365.1166421 test: 2366.8437997 best: 2366.8437997 (69) total: 1.59s remaining: 680ms
70: learn: 2352.6189211 test: 2354.2443085 best: 2354.2443085 (70) total: 1.61s remaining: 657ms
71: learn: 2340.4625228 test: 2341.7208520 best: 2341.7208520 (71) total: 1.63s remaining: 634ms
72: learn: 2328.1238162 test: 2329.0786669 best: 2329.0786669 (72) total: 1.65s remaining: 610ms
73: learn: 2316.7136561 test: 2317.2600871 best: 2317.2600871 (73) total: 1.67s remaining: 587ms
74: learn: 2306.1469378 test: 2306.1865911 best: 2306.1865911 (74) total: 1.69s remaining: 563ms
75: learn: 2293.8177233 test: 2293.5775495 best: 2293.5775495 (75) total: 1.72s remaining: 542ms
76: learn: 2283.4031034 test: 2282.8789830 best: 2282.8789830 (76) total: 1.74s remaining: 519ms
77: learn: 2271.7796606 test: 2270.9512073 best: 2270.9512073 (77) total: 1.76s remaining: 496ms
78: learn: 2261.8377409 test: 2260.9061099 best: 2260.9061099 (78) total: 1.78s remaining: 472ms
79: learn: 2252.7004030 test: 2251.4457155 best: 2251.4457155 (79) total: 1.79s remaining: 449ms
80: learn: 2242.5342518 test: 2241.0906694 best: 2241.0906694 (80) total: 1.81s remaining: 426ms
81: learn: 2233.1472430 test: 2231.4523214 best: 2231.4523214 (81) total: 1.83s remaining: 403ms
82: learn: 2224.6801871 test: 2222.6908673 best: 2222.6908673 (82) total: 1.85s remaining: 380ms
83: learn: 2216.5244089 test: 2214.5052073 best: 2214.5052073 (83) total: 1.88s remaining: 357ms
84: learn: 2208.7511771 test: 2206.2616765 best: 2206.2616765 (84) total: 1.89s remaining: 334ms
85: learn: 2201.2733130 test: 2198.5622437 best: 2198.5622437 (85) total: 1.92s remaining: 312ms
86: learn: 2192.9967884 test: 2189.9288885 best: 2189.9288885 (86) total: 1.94s remaining: 290ms
87: learn: 2186.1692975 test: 2182.8788292 best: 2182.8788292 (87) total: 1.96s remaining: 268ms
88: learn: 2179.0727137 test: 2175.5246832 best: 2175.5246832 (88) total: 1.98s remaining: 245ms
89: learn: 2172.0341075 test: 2168.1269403 best: 2168.1269403 (89) total: 2s remaining: 222ms
90: learn: 2165.2626441 test: 2161.0522954 best: 2161.0522954 (90) total: 2.02s remaining: 200ms
91: learn: 2158.1226004 test: 2153.7785428 best: 2153.7785428 (91) total: 2.04s remaining: 178ms

92: learn: 2151.7326340 test: 2147.1171472 best: 2147.1171472 (92) total: 2.06s remaining: 155ms
93: learn: 2145.7211822 test: 2140.8960989 best: 2140.8960989 (93) total: 2.08s remaining: 133ms
94: learn: 2140.0193188 test: 2134.9217416 best: 2134.9217416 (94) total: 2.1s remaining: 111ms
95: learn: 2134.4371195 test: 2129.2469831 best: 2129.2469831 (95) total: 2.12s remaining: 88.5ms
96: learn: 2128.9199358 test: 2123.6843969 best: 2123.6843969 (96) total: 2.14s remaining: 66.3ms
97: learn: 2123.5478691 test: 2118.2128706 best: 2118.2128706 (97) total: 2.16s remaining: 44.1ms
98: learn: 2117.9709269 test: 2112.3468752 best: 2112.3468752 (98) total: 2.18s remaining: 22ms
99: learn: 2111.4916766 test: 2105.7045013 best: 2105.7045013 (99) total: 2.2s remaining: 0us

bestTest = 2105.704501

bestIteration = 99

50: loss: 2105.7045013 best: 1787.3864554 (43) total: 1m 55s remaining: 1m 42s
0: learn: 6393.7262274 test: 6420.1355741 best: 6420.1355741 (0) total: 21ms remaining: 2.08s
1: learn: 5880.9230666 test: 5906.8207188 best: 5906.8207188 (1) total: 41ms remaining: 2.01s
2: learn: 5412.3280604 test: 5438.0275989 best: 5438.0275989 (2) total: 59.9ms remaining: 1.94s
3: learn: 5002.3051963 test: 5027.2431165 best: 5027.2431165 (3) total: 80.2ms remaining: 1.92s
4: learn: 4639.6374677 test: 4663.4820865 best: 4663.4820865 (4) total: 107ms remaining: 2.04s
5: learn: 4317.9417527 test: 4341.1882793 best: 4341.1882793 (5) total: 127ms remaining: 1.99s
6: learn: 4028.9003352 test: 4050.6430203 best: 4050.6430203 (6) total: 147ms remaining: 1.95s
7: learn: 3773.7986639 test: 3794.4229573 best: 3794.4229573 (7) total: 167ms remaining: 1.92s
8: learn: 3552.4925462 test: 3571.1447999 best: 3571.1447999 (8) total: 190ms remaining: 1.92s
9: learn: 3358.1689284 test: 3376.3065000 best: 3376.3065000 (9) total: 214ms remaining: 1.93s
10: learn: 3189.9499437 test: 3206.2155125 best: 3206.2155125 (10) total: 243ms remaining: 1.97s
11: learn: 3042.1066679 test: 3056.7233749 best: 3056.7233749 (11) total: 262ms remaining: 1.92s
12: learn: 2919.3276731 test: 2932.6945427 best: 2932.6945427 (12) total: 282ms remaining: 1.89s
13: learn: 2803.3588267 test: 2815.6675984 best: 2815.6675984 (13) total: 304ms remaining: 1.87s
14: learn: 2706.0026571 test: 2716.1810153 best: 2716.1810153 (14) total: 323ms remaining: 1.83s
15: learn: 2620.5980122 test: 2628.9505141 best: 2628.9505141 (15) total: 342ms remaining: 1.8s
16: learn: 2545.4301624 test: 2552.6332764 best: 2552.6332764 (16) total: 361ms remaining: 1.76s
17: learn: 2481.8749339 test: 2487.3359257 best: 2487.3359257 (17) total: 381ms remaining: 1.74s
18: learn: 2427.0022851 test: 2431.6111279 best: 2431.6111279 (18) total: 403ms remaining: 1.72s
19: learn: 2379.0624295 test: 2381.9374396 best: 2381.9374396 (19) total: 423ms remaining: 1.69s
20: learn: 2335.9635544 test: 2337.9281556 best: 2337.9281556 (20) total: 442ms remaining: 1.66s
21: learn: 2296.8310970 test: 2297.6411607 best: 2297.6411607 (21) total: 461ms remaining: 1.63s
22: learn: 2262.2383156 test: 2261.4204410 best: 2261.4204410 (22) total: 480ms remaining: 1.61s
23: learn: 2231.6789623 test: 2230.1990894 best: 2230.1990894 (23) total: 502ms remaining: 1.59s
24: learn: 2206.0715205 test: 2203.6457782 best: 2203.6457782 (24) total: 521ms remaining: 1.56s
25: learn: 2182.0874549 test: 2179.2346148 best: 2179.2346148 (25) total: 540ms remaining: 1.53s
26: learn: 2161.4874711 test: 2157.5570956 best: 2157.5570956 (26) total: 557ms remaining: 1.51s
27: learn: 2142.5011863 test: 2138.3647254 best: 2138.3647254 (27) total: 576ms remaining: 1.48s

28: learn: 2119.0936174 test: 2114.7435156 best: 2114.7435156 (28) total: 598ms remaining: 1.46s
29: learn: 2103.7564879 test: 2099.1320134 best: 2099.1320134 (29) total: 616ms remaining: 1.44s
30: learn: 2088.2221222 test: 2082.8395398 best: 2082.8395398 (30) total: 634ms remaining: 1.41s
31: learn: 2071.1221999 test: 2064.8847289 best: 2064.8847289 (31) total: 653ms remaining: 1.39s
32: learn: 2059.7564558 test: 2053.8266875 best: 2053.8266875 (32) total: 670ms remaining: 1.36s
33: learn: 2047.3483826 test: 2041.0306674 best: 2041.0306674 (33) total: 690ms remaining: 1.34s
34: learn: 2032.8927972 test: 2026.1191742 best: 2026.1191742 (34) total: 713ms remaining: 1.32s
35: learn: 2023.3102948 test: 2016.7359988 best: 2016.7359988 (35) total: 733ms remaining: 1.3s
36: learn: 2014.6112181 test: 2008.0106254 best: 2008.0106254 (36) total: 751ms remaining: 1.28s
37: learn: 2006.3324523 test: 1999.3897806 best: 1999.3897806 (37) total: 768ms remaining: 1.25s
38: learn: 1998.8082165 test: 1991.8804474 best: 1991.8804474 (38) total: 786ms remaining: 1.23s
39: learn: 1987.0427919 test: 1979.8395538 best: 1979.8395538 (39) total: 807ms remaining: 1.21s
40: learn: 1980.6866184 test: 1973.4798074 best: 1973.4798074 (40) total: 825ms remaining: 1.19s
41: learn: 1972.1507309 test: 1964.7700965 best: 1964.7700965 (41) total: 844ms remaining: 1.17s
42: learn: 1965.2465764 test: 1957.9825251 best: 1957.9825251 (42) total: 862ms remaining: 1.14s
43: learn: 1959.7732882 test: 1952.7802531 best: 1952.7802531 (43) total: 893ms remaining: 1.14s
44: learn: 1954.8454991 test: 1947.6273768 best: 1947.6273768 (44) total: 911ms remaining: 1.11s
45: learn: 1949.6436831 test: 1942.4171343 best: 1942.4171343 (45) total: 929ms remaining: 1.09s
46: learn: 1943.6934501 test: 1936.1970752 best: 1936.1970752 (46) total: 948ms remaining: 1.07s
47: learn: 1937.5819863 test: 1930.2675478 best: 1930.2675478 (47) total: 965ms remaining: 1.04s
48: learn: 1933.0955236 test: 1926.2910473 best: 1926.2910473 (48) total: 984ms remaining: 1.02s
49: learn: 1928.2115771 test: 1921.4164300 best: 1921.4164300 (49) total: 1.01s remaining: 1.01s
50: learn: 1923.9624942 test: 1917.2119216 best: 1917.2119216 (50) total: 1.02s remaining: 984ms
51: learn: 1920.6136466 test: 1914.1225280 best: 1914.1225280 (51) total: 1.04s remaining: 962ms
52: learn: 1915.7774706 test: 1909.2147311 best: 1909.2147311 (52) total: 1.06s remaining: 940ms
53: learn: 1910.9444325 test: 1904.6085596 best: 1904.6085596 (53) total: 1.08s remaining: 919ms
54: learn: 1907.8779678 test: 1901.6331862 best: 1901.6331862 (54) total: 1.1s remaining: 899ms
55: learn: 1902.8501268 test: 1896.8571236 best: 1896.8571236 (55) total: 1.12s remaining: 879ms
56: learn: 1898.4232671 test: 1892.5166952 best: 1892.5166952 (56) total: 1.14s remaining: 858ms
57: learn: 1892.7070345 test: 1886.3525489 best: 1886.3525489 (57) total: 1.16s remaining: 838ms
58: learn: 1890.0205447 test: 1884.3335544 best: 1884.3335544 (58) total: 1.17s remaining: 816ms
59: learn: 1886.6783395 test: 1881.1894121 best: 1881.1894121 (59) total: 1.2s remaining: 798ms
60: learn: 1883.3209026 test: 1878.0855479 best: 1878.0855479 (60) total: 1.22s remaining: 778ms
61: learn: 1880.5439943 test: 1875.1229480 best: 1875.1229480 (61) total: 1.24s remaining: 757ms
62: learn: 1877.3431082 test: 1872.0936603 best: 1872.0936603 (62) total: 1.25s remaining: 737ms
63: learn: 1873.6799636 test: 1868.6094781 best: 1868.6094781 (63) total: 1.28s remaining: 719ms
64: learn: 1871.5092935 test: 1866.5890275 best: 1866.5890275 (64) total: 1.3s remaining: 702ms
65: learn: 1865.9938135 test: 1861.8532033 best: 1861.8532033 (65) total: 1.32s remaining: 682ms
66: learn: 1863.5493258 test: 1859.2763902 best: 1859.2763902 (66) total: 1.34s remaining: 661ms
67: learn: 1861.1493144 test: 1856.9339443 best: 1856.9339443 (67) total: 1.36s remaining: 641ms
68: learn: 1858.9840540 test: 1854.7803805 best: 1854.7803805 (68) total: 1.38s remaining: 620ms

69: learn: 1855.7586340 test: 1851.5430907 best: 1851.5430907 (69) total: 1.4s remaining: 600ms
70: learn: 1853.4494835 test: 1849.2283918 best: 1849.2283918 (70) total: 1.42s remaining: 579ms
71: learn: 1850.5202155 test: 1846.4107141 best: 1846.4107141 (71) total: 1.44s remaining: 559ms
72: learn: 1848.2689776 test: 1844.3168103 best: 1844.3168103 (72) total: 1.45s remaining: 538ms
73: learn: 1846.3085211 test: 1842.4809609 best: 1842.4809609 (73) total: 1.47s remaining: 518ms
74: learn: 1844.1037295 test: 1840.4762663 best: 1840.4762663 (74) total: 1.49s remaining: 498ms
75: learn: 1840.4417864 test: 1836.7935103 best: 1836.7935103 (75) total: 1.51s remaining: 479ms
76: learn: 1838.1674684 test: 1834.9048900 best: 1834.9048900 (76) total: 1.53s remaining: 459ms
77: learn: 1834.1133136 test: 1831.1768787 best: 1831.1768787 (77) total: 1.55s remaining: 438ms
78: learn: 1832.3039506 test: 1829.6962902 best: 1829.6962902 (78) total: 1.57s remaining: 418ms
79: learn: 1830.1239565 test: 1827.9577656 best: 1827.9577656 (79) total: 1.59s remaining: 398ms
80: learn: 1828.4843484 test: 1826.3913159 best: 1826.3913159 (80) total: 1.61s remaining: 378ms
81: learn: 1827.0603570 test: 1824.9176065 best: 1824.9176065 (81) total: 1.63s remaining: 357ms
82: learn: 1824.9189604 test: 1822.8014545 best: 1822.8014545 (82) total: 1.65s remaining: 337ms
83: learn: 1823.0917414 test: 1820.9316533 best: 1820.9316533 (83) total: 1.66s remaining: 317ms
84: learn: 1821.0966387 test: 1818.8654786 best: 1818.8654786 (84) total: 1.68s remaining: 297ms
85: learn: 1819.4414575 test: 1817.0148633 best: 1817.0148633 (85) total: 1.7s remaining: 277ms
86: learn: 1817.2759711 test: 1814.8453602 best: 1814.8453602 (86) total: 1.72s remaining: 257ms
87: learn: 1815.6227273 test: 1813.2898825 best: 1813.2898825 (87) total: 1.74s remaining: 237ms
88: learn: 1814.3963780 test: 1812.1949028 best: 1812.1949028 (88) total: 1.76s remaining: 217ms
89: learn: 1811.8167982 test: 1809.8969404 best: 1809.8969404 (89) total: 1.78s remaining: 198ms
90: learn: 1809.9215070 test: 1808.0984868 best: 1808.0984868 (90) total: 1.8s remaining: 178ms
91: learn: 1807.5305881 test: 1805.7116067 best: 1805.7116067 (91) total: 1.82s remaining: 159ms
92: learn: 1805.6602074 test: 1803.8474251 best: 1803.8474251 (92) total: 1.84s remaining: 139ms
93: learn: 1804.3309003 test: 1803.0186817 best: 1803.0186817 (93) total: 1.86s remaining: 119ms
94: learn: 1803.1395730 test: 1801.8102662 best: 1801.8102662 (94) total: 1.88s remaining: 98.7ms
95: learn: 1801.7253587 test: 1800.6246784 best: 1800.6246784 (95) total: 1.89s remaining: 78.9ms
96: learn: 1800.4850196 test: 1799.1252870 best: 1799.1252870 (96) total: 1.91s remaining: 59.2ms
97: learn: 1799.1637533 test: 1797.9913459 best: 1797.9913459 (97) total: 1.93s remaining: 39.4ms
98: learn: 1797.6796266 test: 1796.6177439 best: 1796.6177439 (98) total: 1.95s remaining: 19.7ms
99: learn: 1796.4292703 test: 1795.6017889 best: 1795.6017889 (99) total: 1.97s remaining: 0us

bestTest = 1795.601789

bestIteration = 99

51: loss: 1795.6017889 best: 1787.3864554 (43) total: 1m 57s remaining: 1m 39s
0: learn: 6804.6080501 test: 6832.1976802 best: 6832.1976802 (0) total: 25.4ms remaining: 2.52s
1: learn: 6636.0428512 test: 6663.4411127 best: 6663.4411127 (1) total: 45.3ms remaining: 2.22s
2: learn: 6472.0632959 test: 6499.5936465 best: 6499.5936465 (2) total: 64.7ms remaining: 2.09s
3: learn: 6311.2260428 test: 6338.3522485 best: 6338.3522485 (3) total: 83.2ms remaining: 2s
4: learn: 6157.7372635 test: 6184.6283716 best: 6184.6283716 (4) total: 105ms remaining: 1.99s
5: learn: 6008.1214828 test: 6034.9934028 best: 6034.9934028 (5) total: 133ms remaining: 2.08s

6: learn: 5863.2348043 test: 5890.0746625 best: 5890.0746625 (6) total: 161ms remaining: 2.14s
7: learn: 5723.3732335 test: 5749.9728294 best: 5749.9728294 (7) total: 185ms remaining: 2.13s
8: learn: 5588.3273320 test: 5614.3278075 best: 5614.3278075 (8) total: 214ms remaining: 2.16s
9: learn: 5457.9729354 test: 5483.8103633 best: 5483.8103633 (9) total: 239ms remaining: 2.15s
10: learn: 5332.3827177 test: 5358.0259098 best: 5358.0259098 (10) total: 267ms remaining: 2.16s
11: learn: 5209.9613265 test: 5235.1004312 best: 5235.1004312 (11) total: 292ms remaining: 2.14s
12: learn: 5092.8784342 test: 5117.8637199 best: 5117.8637199 (12) total: 318ms remaining: 2.13s
13: learn: 4977.6599776 test: 5002.3383465 best: 5002.3383465 (13) total: 340ms remaining: 2.09s
14: learn: 4867.8526948 test: 4891.9708198 best: 4891.9708198 (14) total: 359ms remaining: 2.04s
15: learn: 4763.1886178 test: 4786.7018208 best: 4786.7018208 (15) total: 379ms remaining: 1.99s
16: learn: 4660.9820750 test: 4684.2802590 best: 4684.2802590 (16) total: 403ms remaining: 1.97s
17: learn: 4565.7364249 test: 4589.1042128 best: 4589.1042128 (17) total: 423ms remaining: 1.93s
18: learn: 4469.2009829 test: 4492.4314920 best: 4492.4314920 (18) total: 444ms remaining: 1.89s
19: learn: 4376.0631283 test: 4398.8940431 best: 4398.8940431 (19) total: 464ms remaining: 1.86s
20: learn: 4288.5037759 test: 4311.1212211 best: 4311.1212211 (20) total: 483ms remaining: 1.82s
21: learn: 4204.0795671 test: 4226.0674117 best: 4226.0674117 (21) total: 505ms remaining: 1.79s
22: learn: 4121.1583750 test: 4142.7462378 best: 4142.7462378 (22) total: 525ms remaining: 1.76s
23: learn: 4043.1169940 test: 4064.0699258 best: 4064.0699258 (23) total: 546ms remaining: 1.73s
24: learn: 3966.2016057 test: 3986.8113700 best: 3986.8113700 (24) total: 565ms remaining: 1.7s
25: learn: 3893.9514632 test: 3914.2432582 best: 3914.2432582 (25) total: 585ms remaining: 1.66s
26: learn: 3821.8122432 test: 3841.5772852 best: 3841.5772852 (26) total: 610ms remaining: 1.65s
27: learn: 3751.5070545 test: 3770.8668322 best: 3770.8668322 (27) total: 629ms remaining: 1.62s
28: learn: 3685.6489950 test: 3704.7787714 best: 3704.7787714 (28) total: 649ms remaining: 1.59s
29: learn: 3622.7523746 test: 3641.3567259 best: 3641.3567259 (29) total: 668ms remaining: 1.56s
30: learn: 3560.0998765 test: 3578.2947428 best: 3578.2947428 (30) total: 687ms remaining: 1.53s
31: learn: 3500.1653882 test: 3517.9689595 best: 3517.9689595 (31) total: 708ms remaining: 1.5s
32: learn: 3443.3049908 test: 3460.5120467 best: 3460.5120467 (32) total: 728ms remaining: 1.48s
33: learn: 3389.0591184 test: 3406.0377244 best: 3406.0377244 (33) total: 748ms remaining: 1.45s
34: learn: 3336.1389048 test: 3352.8731342 best: 3352.8731342 (34) total: 767ms remaining: 1.42s
35: learn: 3284.8236104 test: 3300.9904154 best: 3300.9904154 (35) total: 786ms remaining: 1.4s
36: learn: 3236.8987928 test: 3252.5594314 best: 3252.5594314 (36) total: 812ms remaining: 1.38s
37: learn: 3189.4130577 test: 3204.5540723 best: 3204.5540723 (37) total: 833ms remaining: 1.36s
38: learn: 3145.5130452 test: 3160.2005660 best: 3160.2005660 (38) total: 853ms remaining: 1.33s
39: learn: 3102.7754907 test: 3117.0853312 best: 3117.0853312 (39) total: 872ms remaining: 1.31s
40: learn: 3061.2311612 test: 3075.3213264 best: 3075.3213264 (40) total: 894ms remaining: 1.29s
41: learn: 3021.6634841 test: 3035.1657006 best: 3035.1657006 (41) total: 914ms remaining: 1.26s
42: learn: 2982.1736001 test: 2995.4800976 best: 2995.4800976 (42) total: 934ms remaining: 1.24s
43: learn: 2946.1698964 test: 2959.2263658 best: 2959.2263658 (43) total: 955ms remaining: 1.22s
44: learn: 2911.4774919 test: 2924.1272674 best: 2924.1272674 (44) total: 976ms remaining: 1.19s
45: learn: 2878.3837294 test: 2890.7066905 best: 2890.7066905 (45) total: 1s remaining: 1.18s
46: learn: 2845.9149705 test: 2857.6470151 best: 2857.6470151 (46) total: 1.02s remaining: 1.16s

47: learn: 2815.4316509 test: 2827.0430345 best: 2827.0430345 (47) total: 1.04s remaining: 1.13s
48: learn: 2785.3279138 test: 2796.3323641 best: 2796.3323641 (48) total: 1.06s remaining: 1.11s
49: learn: 2756.9146655 test: 2767.3765306 best: 2767.3765306 (49) total: 1.09s remaining: 1.09s
50: learn: 2729.5664122 test: 2739.2844389 best: 2739.2844389 (50) total: 1.11s remaining: 1.07s
51: learn: 2702.6171577 test: 2711.5502504 best: 2711.5502504 (51) total: 1.14s remaining: 1.05s
52: learn: 2677.1508065 test: 2685.5852713 best: 2685.5852713 (52) total: 1.16s remaining: 1.03s
53: learn: 2653.2635674 test: 2661.3675848 best: 2661.3675848 (53) total: 1.18s remaining: 1s
54: learn: 2629.5268662 test: 2637.1137608 best: 2637.1137608 (54) total: 1.2s remaining: 982ms
55: learn: 2607.0843580 test: 2614.1097088 best: 2614.1097088 (55) total: 1.22s remaining: 960ms
56: learn: 2585.3744165 test: 2591.8505609 best: 2591.8505609 (56) total: 1.24s remaining: 938ms
57: learn: 2564.1797714 test: 2570.3458135 best: 2570.3458135 (57) total: 1.26s remaining: 914ms
58: learn: 2543.4102447 test: 2549.1066736 best: 2549.1066736 (58) total: 1.28s remaining: 891ms
59: learn: 2523.7579369 test: 2529.1025303 best: 2529.1025303 (59) total: 1.31s remaining: 873ms
60: learn: 2505.2204944 test: 2510.1616192 best: 2510.1616192 (60) total: 1.33s remaining: 851ms
61: learn: 2487.6475469 test: 2492.0010773 best: 2492.0010773 (61) total: 1.35s remaining: 828ms
62: learn: 2470.7788006 test: 2474.8256777 best: 2474.8256777 (62) total: 1.37s remaining: 805ms
63: learn: 2453.6650296 test: 2457.3285099 best: 2457.3285099 (63) total: 1.39s remaining: 782ms
64: learn: 2437.7376997 test: 2440.7603836 best: 2440.7603836 (64) total: 1.41s remaining: 759ms
65: learn: 2422.1071328 test: 2424.8582252 best: 2424.8582252 (65) total: 1.43s remaining: 737ms
66: learn: 2407.0163330 test: 2409.3196199 best: 2409.3196199 (66) total: 1.45s remaining: 715ms
67: learn: 2392.8108159 test: 2394.6872692 best: 2394.6872692 (67) total: 1.47s remaining: 692ms
68: learn: 2379.2550806 test: 2380.5541750 best: 2380.5541750 (68) total: 1.49s remaining: 669ms
69: learn: 2366.3097671 test: 2367.3579582 best: 2367.3579582 (69) total: 1.51s remaining: 647ms
70: learn: 2353.8284408 test: 2354.3804192 best: 2354.3804192 (70) total: 1.53s remaining: 626ms
71: learn: 2341.8509670 test: 2342.1997472 best: 2342.1997472 (71) total: 1.55s remaining: 603ms
72: learn: 2330.6370816 test: 2330.6373984 best: 2330.6373984 (72) total: 1.57s remaining: 581ms
73: learn: 2319.2001886 test: 2318.7912129 best: 2318.7912129 (73) total: 1.59s remaining: 559ms
74: learn: 2308.6423969 test: 2307.8826940 best: 2307.8826940 (74) total: 1.61s remaining: 537ms
75: learn: 2295.8934599 test: 2294.8413750 best: 2294.8413750 (75) total: 1.63s remaining: 515ms
76: learn: 2286.0804377 test: 2284.7314709 best: 2284.7314709 (76) total: 1.65s remaining: 492ms
77: learn: 2276.4324717 test: 2274.7710917 best: 2274.7710917 (77) total: 1.67s remaining: 471ms
78: learn: 2265.3860476 test: 2263.4753726 best: 2263.4753726 (78) total: 1.69s remaining: 449ms
79: learn: 2256.0753774 test: 2253.9537630 best: 2253.9537630 (79) total: 1.71s remaining: 428ms
80: learn: 2247.8299707 test: 2245.6205009 best: 2245.6205009 (80) total: 1.73s remaining: 406ms
81: learn: 2239.1448819 test: 2236.9296268 best: 2236.9296268 (81) total: 1.75s remaining: 384ms
82: learn: 2230.6345966 test: 2228.1690083 best: 2228.1690083 (82) total: 1.77s remaining: 362ms
83: learn: 2222.5007367 test: 2219.6157935 best: 2219.6157935 (83) total: 1.78s remaining: 340ms
84: learn: 2214.6213696 test: 2211.3954333 best: 2211.3954333 (84) total: 1.8s remaining: 319ms
85: learn: 2207.2223503 test: 2203.8155490 best: 2203.8155490 (85) total: 1.82s remaining: 297ms
86: learn: 2198.8206304 test: 2195.0647456 best: 2195.0647456 (86) total: 1.85s remaining: 276ms
87: learn: 2191.2276192 test: 2187.0901896 best: 2187.0901896 (87) total: 1.87s remaining: 255ms

88: learn: 2184.0849795 test: 2179.7328101 best: 2179.7328101 (88) total: 1.89s remaining: 233ms
89: learn: 2176.6533200 test: 2171.9680301 best: 2171.9680301 (89) total: 1.91s remaining: 212ms
90: learn: 2168.8456792 test: 2163.9604116 best: 2163.9604116 (90) total: 1.93s remaining: 191ms
91: learn: 2161.0432658 test: 2155.9806159 best: 2155.9806159 (91) total: 1.95s remaining: 170ms
92: learn: 2154.4698465 test: 2149.1211587 best: 2149.1211587 (92) total: 1.97s remaining: 148ms
93: learn: 2148.3528058 test: 2142.8056334 best: 2142.8056334 (93) total: 1.99s remaining: 127ms
94: learn: 2142.5280800 test: 2136.8129895 best: 2136.8129895 (94) total: 2.01s remaining: 106ms
95: learn: 2136.7483585 test: 2130.9737988 best: 2130.9737988 (95) total: 2.02s remaining: 84.4ms
96: learn: 2131.1796384 test: 2125.2433831 best: 2125.2433831 (96) total: 2.04s remaining: 63.2ms
97: learn: 2124.8635978 test: 2118.8261019 best: 2118.8261019 (97) total: 2.06s remaining: 42.1ms
98: learn: 2119.3950042 test: 2113.1349203 best: 2113.1349203 (98) total: 2.08s remaining: 21ms
99: learn: 2113.6150326 test: 2107.2365355 best: 2107.2365355 (99) total: 2.1s remaining: 0us

bestTest = 2107.236536

bestIteration = 99

52: loss: 2107.2365355 best: 1787.3864554 (43) total: 2m remaining: 1m 37s
0: learn: 6393.8225421 test: 6420.2298938 best: 6420.2298938 (0) total: 22.6ms remaining: 2.24s
1: learn: 5881.1831655 test: 5907.0693702 best: 5907.0693702 (1) total: 42.5ms remaining: 2.08s
2: learn: 5412.6591064 test: 5438.3435213 best: 5438.3435213 (2) total: 61.9ms remaining: 2s
3: learn: 5002.6411738 test: 5027.5652005 best: 5027.5652005 (3) total: 81.7ms remaining: 1.96s
4: learn: 4640.0067759 test: 4663.8408017 best: 4663.8408017 (4) total: 105ms remaining: 2s
5: learn: 4318.3491215 test: 4341.5871428 best: 4341.5871428 (5) total: 127ms remaining: 1.99s
6: learn: 4029.3068216 test: 4051.0414169 best: 4051.0414169 (6) total: 147ms remaining: 1.96s
7: learn: 3774.1934303 test: 3794.8095572 best: 3794.8095572 (7) total: 174ms remaining: 2s
8: learn: 3552.9051797 test: 3571.5509811 best: 3571.5509811 (8) total: 194ms remaining: 1.96s
9: learn: 3358.5803567 test: 3376.7132774 best: 3376.7132774 (9) total: 214ms remaining: 1.93s
10: learn: 3190.3488414 test: 3206.6111629 best: 3206.6111629 (10) total: 234ms remaining: 1.89s
11: learn: 3042.5212329 test: 3057.1254954 best: 3057.1254954 (11) total: 254ms remaining: 1.86s
12: learn: 2919.7677700 test: 2933.1154141 best: 2933.1154141 (12) total: 277ms remaining: 1.85s
13: learn: 2803.7664009 test: 2816.0565469 best: 2816.0565469 (13) total: 296ms remaining: 1.82s
14: learn: 2706.3946506 test: 2716.5520681 best: 2716.5520681 (14) total: 317ms remaining: 1.79s
15: learn: 2620.9700339 test: 2629.2997492 best: 2629.2997492 (15) total: 337ms remaining: 1.77s
16: learn: 2545.7838646 test: 2552.9608485 best: 2552.9608485 (16) total: 358ms remaining: 1.75s
17: learn: 2482.2271581 test: 2487.6538997 best: 2487.6538997 (17) total: 383ms remaining: 1.74s
18: learn: 2427.3466313 test: 2431.9212157 best: 2431.9212157 (18) total: 404ms remaining: 1.72s
19: learn: 2379.3996199 test: 2382.2381525 best: 2382.2381525 (19) total: 423ms remaining: 1.69s
20: learn: 2336.3113337 test: 2338.2414180 best: 2338.2414180 (20) total: 443ms remaining: 1.67s
21: learn: 2297.1890054 test: 2297.9601176 best: 2297.9601176 (21) total: 461ms remaining: 1.64s
22: learn: 2262.5905494 test: 2261.7294585 best: 2261.7294585 (22) total: 481ms remaining: 1.61s
23: learn: 2232.0282398 test: 2230.5018126 best: 2230.5018126 (23) total: 501ms remaining: 1.58s
24: learn: 2232.0282398 test: 2230.5018126 best: 2230.5018126 (24) total: 520ms remaining: 1.55s

24: learn: 2206.4098700 test: 2203.9330741 best: 2203.9330741 (24) total: 520ms remaining: 1.56s
25: learn: 2182.4274929 test: 2179.5208575 best: 2179.5208575 (25) total: 540ms remaining: 1.54s
26: learn: 2161.8236674 test: 2157.8396616 best: 2157.8396616 (26) total: 561ms remaining: 1.52s
27: learn: 2142.8479265 test: 2138.6166511 best: 2138.6166511 (27) total: 583ms remaining: 1.5s
28: learn: 2119.4298919 test: 2114.9854759 best: 2114.9854759 (28) total: 603ms remaining: 1.48s
29: learn: 2104.0927703 test: 2099.3700313 best: 2099.3700313 (29) total: 622ms remaining: 1.45s
30: learn: 2088.5649515 test: 2083.0761706 best: 2083.0761706 (30) total: 641ms remaining: 1.43s
31: learn: 2071.4523110 test: 2065.1089655 best: 2065.1089655 (31) total: 659ms remaining: 1.4s
32: learn: 2060.1011593 test: 2054.0624133 best: 2054.0624133 (32) total: 680ms remaining: 1.38s
33: learn: 2047.6883690 test: 2041.2558902 best: 2041.2558902 (33) total: 700ms remaining: 1.36s
34: learn: 2033.2271449 test: 2026.3397557 best: 2026.3397557 (34) total: 724ms remaining: 1.34s
35: learn: 2023.6729795 test: 2016.9513013 best: 2016.9513013 (35) total: 747ms remaining: 1.33s
36: learn: 2014.9886856 test: 2008.2236694 best: 2008.2236694 (36) total: 771ms remaining: 1.31s
37: learn: 2006.6349906 test: 1999.1772648 best: 1999.1772648 (37) total: 790ms remaining: 1.29s
38: learn: 1999.0640786 test: 1991.9640871 best: 1991.9640871 (38) total: 808ms remaining: 1.26s
39: learn: 1990.7718752 test: 1983.5678242 best: 1983.5678242 (39) total: 829ms remaining: 1.24s
40: learn: 1982.2946936 test: 1975.3494373 best: 1975.3494373 (40) total: 849ms remaining: 1.22s
41: learn: 1974.7300645 test: 1967.3922671 best: 1967.3922671 (41) total: 873ms remaining: 1.21s
42: learn: 1968.0436610 test: 1960.9194828 best: 1960.9194828 (42) total: 891ms remaining: 1.18s
43: learn: 1959.3476083 test: 1953.1875409 best: 1953.1875409 (43) total: 910ms remaining: 1.16s
44: learn: 1953.5777989 test: 1947.1776184 best: 1947.1776184 (44) total: 929ms remaining: 1.14s
45: learn: 1948.7011455 test: 1942.0915256 best: 1942.0915256 (45) total: 947ms remaining: 1.11s
46: learn: 1942.7635763 test: 1935.8850056 best: 1935.8850056 (46) total: 969ms remaining: 1.09s
47: learn: 1937.6074375 test: 1931.1769748 best: 1931.1769748 (47) total: 987ms remaining: 1.07s
48: learn: 1932.7580431 test: 1926.2170731 best: 1926.2170731 (48) total: 1s remaining: 1.04s
49: learn: 1927.6267433 test: 1921.1908507 best: 1921.1908507 (49) total: 1.02s remaining: 1.02s
50: learn: 1923.8221959 test: 1917.6461995 best: 1917.6461995 (50) total: 1.04s remaining: 1s
51: learn: 1918.6016978 test: 1912.3521331 best: 1912.3521331 (51) total: 1.06s remaining: 982ms
52: learn: 1914.1337902 test: 1907.8577260 best: 1907.8577260 (52) total: 1.08s remaining: 960ms
53: learn: 1909.7505738 test: 1903.3646725 best: 1903.3646725 (53) total: 1.1s remaining: 938ms
54: learn: 1906.5137438 test: 1900.3217309 best: 1900.3217309 (54) total: 1.12s remaining: 915ms
55: learn: 1902.7635182 test: 1896.4476251 best: 1896.4476251 (55) total: 1.14s remaining: 892ms
56: learn: 1896.9599607 test: 1891.6898663 best: 1891.6898663 (56) total: 1.16s remaining: 872ms
57: learn: 1893.8350518 test: 1888.6926201 best: 1888.6926201 (57) total: 1.18s remaining: 853ms
58: learn: 1890.2999008 test: 1885.1089698 best: 1885.1089698 (58) total: 1.2s remaining: 834ms
59: learn: 1887.1181065 test: 1881.9404688 best: 1881.9404688 (59) total: 1.22s remaining: 813ms
60: learn: 1884.2415278 test: 1879.1772097 best: 1879.1772097 (60) total: 1.24s remaining: 791ms
61: learn: 1881.6346425 test: 1876.6661178 best: 1876.6661178 (61) total: 1.25s remaining: 769ms
62: learn: 1878.2699566 test: 1873.2709537 best: 1873.2709537 (62) total: 1.28s remaining: 750ms
63: learn: 1874.6848966 test: 1869.7975041 best: 1869.7975041 (63) total: 1.3s remaining: 729ms
64: learn: 1872.1635082 test: 1867.6982317 best: 1867.6982317 (64) total: 1.31s remaining: 708ms
65: learn: 1867.4057818 test: 1863.3642933 best: 1863.3642933 (65) total: 1.33s remaining: 687ms

66: learn: 1865.1051759 test: 1861.2464332 best: 1861.2464332 (66) total: 1.35s remaining: 667ms
67: learn: 1862.3562353 test: 1858.5229634 best: 1858.5229634 (67) total: 1.37s remaining: 647ms
68: learn: 1860.1310466 test: 1856.2173587 best: 1856.2173587 (68) total: 1.39s remaining: 625ms
69: learn: 1857.7083831 test: 1854.2696619 best: 1854.2696619 (69) total: 1.41s remaining: 604ms
70: learn: 1855.5400632 test: 1852.3069971 best: 1852.3069971 (70) total: 1.43s remaining: 583ms
71: learn: 1853.0125861 test: 1849.8663056 best: 1849.8663056 (71) total: 1.45s remaining: 562ms
72: learn: 1851.0611440 test: 1848.1221065 best: 1848.1221065 (72) total: 1.47s remaining: 543ms
73: learn: 1847.3581862 test: 1844.2332607 best: 1844.2332607 (73) total: 1.49s remaining: 522ms
74: learn: 1844.5074557 test: 1841.4876093 best: 1841.4876093 (74) total: 1.5s remaining: 501ms
75: learn: 1841.5476070 test: 1838.8440156 best: 1838.8440156 (75) total: 1.52s remaining: 481ms
76: learn: 1839.3195652 test: 1836.9601774 best: 1836.9601774 (76) total: 1.54s remaining: 461ms
77: learn: 1838.0519668 test: 1835.5045096 best: 1835.5045096 (77) total: 1.56s remaining: 441ms
78: learn: 1836.1863510 test: 1833.8972669 best: 1833.8972669 (78) total: 1.58s remaining: 421ms
79: learn: 1833.3065785 test: 1831.5236269 best: 1831.5236269 (79) total: 1.6s remaining: 401ms
80: learn: 1830.4662729 test: 1828.6448560 best: 1828.6448560 (80) total: 1.62s remaining: 381ms
81: learn: 1828.8233365 test: 1827.0073776 best: 1827.0073776 (81) total: 1.64s remaining: 360ms
82: learn: 1826.7661962 test: 1825.3076142 best: 1825.3076142 (82) total: 1.67s remaining: 341ms
83: learn: 1825.0367472 test: 1823.4057841 best: 1823.4057841 (83) total: 1.68s remaining: 321ms
84: learn: 1822.7690957 test: 1820.8826211 best: 1820.8826211 (84) total: 1.7s remaining: 300ms
85: learn: 1820.5962335 test: 1818.9542666 best: 1818.9542666 (85) total: 1.72s remaining: 280ms
86: learn: 1819.4520439 test: 1817.7884717 best: 1817.7884717 (86) total: 1.74s remaining: 260ms
87: learn: 1817.5748811 test: 1816.4080572 best: 1816.4080572 (87) total: 1.76s remaining: 240ms
88: learn: 1816.2378844 test: 1815.1987681 best: 1815.1987681 (88) total: 1.78s remaining: 220ms
89: learn: 1813.8414176 test: 1813.1113724 best: 1813.1113724 (89) total: 1.8s remaining: 200ms
90: learn: 1811.2643199 test: 1810.6005000 best: 1810.6005000 (90) total: 1.82s remaining: 180ms
91: learn: 1809.0487878 test: 1808.7528550 best: 1808.7528550 (91) total: 1.83s remaining: 160ms
92: learn: 1807.6702823 test: 1807.6314656 best: 1807.6314656 (92) total: 1.86s remaining: 140ms
93: learn: 1806.6314550 test: 1806.6141162 best: 1806.6141162 (93) total: 1.88s remaining: 120ms
94: learn: 1805.2320580 test: 1805.3598853 best: 1805.3598853 (94) total: 1.89s remaining: 99.6ms
95: learn: 1804.2344596 test: 1804.6063141 best: 1804.6063141 (95) total: 1.91s remaining: 79.6ms
96: learn: 1801.9944938 test: 1802.5672147 best: 1802.5672147 (96) total: 1.93s remaining: 59.7ms
97: learn: 1800.0962706 test: 1800.6256918 best: 1800.6256918 (97) total: 1.95s remaining: 39.8ms
98: learn: 1798.6610343 test: 1799.2971928 best: 1799.2971928 (98) total: 1.97s remaining: 19.9ms
99: learn: 1797.2174136 test: 1797.8732416 best: 1797.8732416 (99) total: 1.99s remaining: 0us

bestTest = 1797.873242

bestIteration = 99

53: loss: 1797.8732416 best: 1787.3864554 (43) total: 2m 2s remaining: 1m 34s

0: learn: 6804.7243338 test: 6832.3115458 best: 6832.3115458 (0) total: 21.1ms remaining: 2.08s

1: learn: 6636.3760727 test: 6663.7591004 best: 6663.7591004 (1) total: 41.3ms remaining: 2.02s

2: learn: 6472.4741468 test: 6499.9890322 best: 6499.9890322 (2) total: 65.6ms remaining: 2.12s
3: learn: 6311.7382830 test: 6338.8526470 best: 6338.8526470 (3) total: 86.4ms remaining: 2.07s
4: learn: 6158.3583814 test: 6185.2477489 best: 6185.2477489 (4) total: 108ms remaining: 2.06s
5: learn: 6008.8584268 test: 6035.7311375 best: 6035.7311375 (5) total: 131ms remaining: 2.05s
6: learn: 5864.0727468 test: 5890.9111523 best: 5890.9111523 (6) total: 152ms remaining: 2.01s
7: learn: 5724.2838579 test: 5750.8769435 best: 5750.8769435 (7) total: 174ms remaining: 2s
8: learn: 5589.3960101 test: 5615.3979983 best: 5615.3979983 (8) total: 194ms remaining: 1.96s
9: learn: 5459.1085877 test: 5484.9513015 best: 5484.9513015 (9) total: 218ms remaining: 1.97s
10: learn: 5333.6024373 test: 5359.2522815 best: 5359.2522815 (10) total: 240ms remaining: 1.94s
11: learn: 5211.2193124 test: 5236.3648355 best: 5236.3648355 (11) total: 266ms remaining: 1.95s
12: learn: 5094.2654310 test: 5119.2615550 best: 5119.2615550 (12) total: 288ms remaining: 1.93s
13: learn: 4979.0741813 test: 5003.7650059 best: 5003.7650059 (13) total: 309ms remaining: 1.9s
14: learn: 4869.3025749 test: 4893.4330438 best: 4893.4330438 (14) total: 329ms remaining: 1.86s
15: learn: 4764.6567792 test: 4788.1826693 best: 4788.1826693 (15) total: 350ms remaining: 1.84s
16: learn: 4662.4905826 test: 4685.8011758 best: 4685.8011758 (16) total: 371ms remaining: 1.81s
17: learn: 4567.2518173 test: 4590.6286627 best: 4590.6286627 (17) total: 393ms remaining: 1.79s
18: learn: 4470.7353560 test: 4493.9742437 best: 4493.9742437 (18) total: 413ms remaining: 1.76s
19: learn: 4377.5980282 test: 4400.4373194 best: 4400.4373194 (19) total: 434ms remaining: 1.74s
20: learn: 4290.0253757 test: 4312.6507884 best: 4312.6507884 (20) total: 455ms remaining: 1.71s
21: learn: 4205.6098360 test: 4227.6073269 best: 4227.6073269 (21) total: 476ms remaining: 1.69s
22: learn: 4123.8775164 test: 4145.5607646 best: 4145.5607646 (22) total: 496ms remaining: 1.66s
23: learn: 4045.8835740 test: 4066.9312933 best: 4066.9312933 (23) total: 518ms remaining: 1.64s
24: learn: 3968.8301141 test: 3989.5349592 best: 3989.5349592 (24) total: 539ms remaining: 1.61s
25: learn: 3896.6774440 test: 3917.0637273 best: 3917.0637273 (25) total: 567ms remaining: 1.61s
26: learn: 3824.6606995 test: 3844.5103289 best: 3844.5103289 (26) total: 592ms remaining: 1.6s
27: learn: 3754.2522646 test: 3773.6950419 best: 3773.6950419 (27) total: 618ms remaining: 1.59s
28: learn: 3689.9457529 test: 3709.0000091 best: 3709.0000091 (28) total: 637ms remaining: 1.56s
29: learn: 3626.7468597 test: 3645.4553939 best: 3645.4553939 (29) total: 658ms remaining: 1.53s
30: learn: 3563.9109833 test: 3582.2114789 best: 3582.2114789 (30) total: 677ms remaining: 1.51s
31: learn: 3503.7300264 test: 3521.4039806 best: 3521.4039806 (31) total: 697ms remaining: 1.48s
32: learn: 3446.4258170 test: 3463.7129956 best: 3463.7129956 (32) total: 717ms remaining: 1.46s
33: learn: 3392.3315059 test: 3409.3910754 best: 3409.3910754 (33) total: 737ms remaining: 1.43s
34: learn: 3339.1523515 test: 3355.9726784 best: 3355.9726784 (34) total: 761ms remaining: 1.41s
35: learn: 3287.6855092 test: 3303.9391605 best: 3303.9391605 (35) total: 781ms remaining: 1.39s
36: learn: 3239.2352938 test: 3255.0310699 best: 3255.0310699 (36) total: 805ms remaining: 1.37s
37: learn: 3191.8428216 test: 3207.1193245 best: 3207.1193245 (37) total: 827ms remaining: 1.35s
38: learn: 3148.0173094 test: 3162.8123625 best: 3162.8123625 (38) total: 846ms remaining: 1.32s
39: learn: 3105.2574835 test: 3119.6712430 best: 3119.6712430 (39) total: 866ms remaining: 1.3s
40: learn: 3063.4260596 test: 3077.5487234 best: 3077.5487234 (40) total: 885ms remaining: 1.27s
41: learn: 3023.9337555 test: 3037.4694345 best: 3037.4694345 (41) total: 903ms remaining: 1.25s
42: learn: 2984.2347334 test: 2997.5770590 best: 2997.5770590 (42) total: 922ms remaining: 1.22s

43: learn: 2947.9505075 test: 2961.0977585 best: 2961.0977585 (43) total: 940ms remaining: 1.2s
44: learn: 2913.7595451 test: 2926.5305956 best: 2926.5305956 (44) total: 963ms remaining: 1.18s
45: learn: 2879.9154723 test: 2892.3521807 best: 2892.3521807 (45) total: 982ms remaining: 1.15s
46: learn: 2847.4545555 test: 2859.2980427 best: 2859.2980427 (46) total: 1s remaining: 1.13s
47: learn: 2816.9372092 test: 2828.6658591 best: 2828.6658591 (47) total: 1.02s remaining: 1.1s
48: learn: 2786.5926284 test: 2797.7064875 best: 2797.7064875 (48) total: 1.04s remaining: 1.08s
49: learn: 2758.1158003 test: 2768.6903814 best: 2768.6903814 (49) total: 1.06s remaining: 1.06s
50: learn: 2730.5346115 test: 2740.2953443 best: 2740.2953443 (50) total: 1.08s remaining: 1.04s
51: learn: 2703.6945511 test: 2712.6869303 best: 2712.6869303 (51) total: 1.1s remaining: 1.01s
52: learn: 2678.0590154 test: 2686.5490271 best: 2686.5490271 (52) total: 1.12s remaining: 991ms
53: learn: 2653.4829235 test: 2661.3757362 best: 2661.3757362 (53) total: 1.14s remaining: 969ms
54: learn: 2629.7844753 test: 2637.1595308 best: 2637.1595308 (54) total: 1.17s remaining: 954ms
55: learn: 2607.5438989 test: 2614.3689604 best: 2614.3689604 (55) total: 1.19s remaining: 939ms
56: learn: 2585.8653667 test: 2592.1419079 best: 2592.1419079 (56) total: 1.22s remaining: 917ms
57: learn: 2564.7932781 test: 2570.6161754 best: 2570.6161754 (57) total: 1.24s remaining: 895ms
58: learn: 2543.8412640 test: 2549.2437466 best: 2549.2437466 (58) total: 1.26s remaining: 873ms
59: learn: 2523.5858739 test: 2528.4834181 best: 2528.4834181 (59) total: 1.28s remaining: 851ms
60: learn: 2505.3287398 test: 2509.8511725 best: 2509.8511725 (60) total: 1.29s remaining: 828ms
61: learn: 2487.5556687 test: 2491.4836730 best: 2491.4836730 (61) total: 1.31s remaining: 806ms
62: learn: 2470.5024913 test: 2474.0535454 best: 2474.0535454 (62) total: 1.33s remaining: 784ms
63: learn: 2452.8148776 test: 2456.1472015 best: 2456.1472015 (63) total: 1.36s remaining: 765ms
64: learn: 2436.6674787 test: 2439.6625081 best: 2439.6625081 (64) total: 1.38s remaining: 744ms
65: learn: 2420.9787331 test: 2423.7037135 best: 2423.7037135 (65) total: 1.4s remaining: 722ms
66: learn: 2406.2841735 test: 2408.5210098 best: 2408.5210098 (66) total: 1.42s remaining: 699ms
67: learn: 2391.8694621 test: 2393.7483622 best: 2393.7483622 (67) total: 1.44s remaining: 677ms
68: learn: 2376.3404961 test: 2377.8885588 best: 2377.8885588 (68) total: 1.46s remaining: 655ms
69: learn: 2363.4251937 test: 2364.5393697 best: 2364.5393697 (69) total: 1.48s remaining: 633ms
70: learn: 2350.9973466 test: 2351.6803634 best: 2351.6803634 (70) total: 1.5s remaining: 611ms
71: learn: 2338.8924096 test: 2339.2083986 best: 2339.2083986 (71) total: 1.51s remaining: 588ms
72: learn: 2327.5833677 test: 2327.5092914 best: 2327.5092914 (72) total: 1.53s remaining: 566ms
73: learn: 2315.8885970 test: 2315.4732964 best: 2315.4732964 (73) total: 1.55s remaining: 546ms
74: learn: 2304.6175076 test: 2304.0201561 best: 2304.0201561 (74) total: 1.57s remaining: 524ms
75: learn: 2292.5106147 test: 2291.6437731 best: 2291.6437731 (75) total: 1.59s remaining: 503ms
76: learn: 2282.8385388 test: 2281.6452883 best: 2281.6452883 (76) total: 1.61s remaining: 482ms
77: learn: 2272.7747475 test: 2271.2260014 best: 2271.2260014 (77) total: 1.63s remaining: 460ms
78: learn: 2262.9937444 test: 2261.3458408 best: 2261.3458408 (78) total: 1.65s remaining: 439ms
79: learn: 2254.1477853 test: 2252.2232280 best: 2252.2232280 (79) total: 1.67s remaining: 417ms
80: learn: 2243.9657645 test: 2241.8614342 best: 2241.8614342 (80) total: 1.69s remaining: 396ms
81: learn: 2235.4247648 test: 2233.2431704 best: 2233.2431704 (81) total: 1.71s remaining: 375ms
82: learn: 2226.7735815 test: 2224.3866985 best: 2224.3866985 (82) total: 1.73s remaining: 353ms
83: learn: 2218.9853273 test: 2216.4335518 best: 2216.4335518 (83) total: 1.75s remaining: 333ms
84: learn: 2211.2228579 test: 2209.1882242 best: 2209.1882242 (84) total: 1.77s remaining: 312ms

84: learn: 2211.2228579 test: 2208.1882242 best: 2208.1882242 (84) total: 1.77s remaining: 312ms
85: learn: 2203.4026034 test: 2200.2098804 best: 2200.2098804 (85) total: 1.79s remaining: 291ms
86: learn: 2195.0123192 test: 2191.4623218 best: 2191.4623218 (86) total: 1.8s remaining: 270ms
87: learn: 2188.2090027 test: 2184.4683861 best: 2184.4683861 (87) total: 1.83s remaining: 249ms
88: learn: 2181.4363744 test: 2177.4962991 best: 2177.4962991 (88) total: 1.85s remaining: 228ms
89: learn: 2173.9643304 test: 2169.8711560 best: 2169.8711560 (89) total: 1.86s remaining: 207ms
90: learn: 2166.1119316 test: 2161.8167972 best: 2161.8167972 (90) total: 1.88s remaining: 186ms
91: learn: 2158.3598034 test: 2153.8798040 best: 2153.8798040 (91) total: 1.9s remaining: 166ms
92: learn: 2151.7438969 test: 2147.0688136 best: 2147.0688136 (92) total: 1.92s remaining: 145ms
93: learn: 2145.6095832 test: 2140.8551979 best: 2140.8551979 (93) total: 1.94s remaining: 124ms
94: learn: 2139.7136477 test: 2134.6470070 best: 2134.6470070 (94) total: 1.96s remaining: 103ms
95: learn: 2133.9298271 test: 2128.4862380 best: 2128.4862380 (95) total: 1.98s remaining: 82.5ms
96: learn: 2128.3437402 test: 2122.7375759 best: 2122.7375759 (96) total: 2s remaining: 61.8ms
97: learn: 2122.0905079 test: 2116.3777072 best: 2116.3777072 (97) total: 2.02s remaining: 41.2ms
98: learn: 2116.3576242 test: 2110.7114294 best: 2110.7114294 (98) total: 2.04s remaining: 20.6ms
99: learn: 2110.8160563 test: 2104.8623504 best: 2104.8623504 (99) total: 2.06s remaining: 0us

bestTest = 2104.86235

bestIteration = 99

54: loss: 2104.8623504 best: 1787.3864554 (43) total: 2m 4s remaining: 1m 32s
0: learn: 6394.2054357 test: 6420.6049341 best: 6420.6049341 (0) total: 20.1ms remaining: 1.99s
1: learn: 5882.2079984 test: 5908.0506001 best: 5908.0506001 (1) total: 39.8ms remaining: 1.95s
2: learn: 5413.9645663 test: 5439.5922712 best: 5439.5922712 (2) total: 59.5ms remaining: 1.92s
3: learn: 5003.9699246 test: 5028.8417858 best: 5028.8417858 (3) total: 79.5ms remaining: 1.91s
4: learn: 4641.4714637 test: 4665.2661361 best: 4665.2661361 (4) total: 99.3ms remaining: 1.89s
5: learn: 4319.9630170 test: 4343.1694622 best: 4343.1694622 (5) total: 119ms remaining: 1.87s
6: learn: 4030.9193621 test: 4052.6237092 best: 4052.6237092 (6) total: 139ms remaining: 1.84s
7: learn: 3775.7613258 test: 3796.3465732 best: 3796.3465732 (7) total: 159ms remaining: 1.83s
8: learn: 3554.5433874 test: 3573.1649822 best: 3573.1649822 (8) total: 184ms remaining: 1.86s
9: learn: 3360.2107788 test: 3378.3294307 best: 3378.3294307 (9) total: 205ms remaining: 1.84s
10: learn: 3191.9305369 test: 3208.1836949 best: 3208.1836949 (10) total: 225ms remaining: 1.82s
11: learn: 3044.1418204 test: 3058.7102353 best: 3058.7102353 (11) total: 245ms remaining: 1.8s
12: learn: 2921.4805168 test: 2934.7754732 best: 2934.7754732 (12) total: 267ms remaining: 1.78s
13: learn: 2805.3518673 test: 2817.5921077 best: 2817.5921077 (13) total: 286ms remaining: 1.75s
14: learn: 2707.9130371 test: 2718.0163530 best: 2718.0163530 (14) total: 305ms remaining: 1.73s
15: learn: 2622.4061990 test: 2630.6788811 best: 2630.6788811 (15) total: 325ms remaining: 1.71s
16: learn: 2547.1408772 test: 2554.2529396 best: 2554.2529396 (16) total: 346ms remaining: 1.69s
17: learn: 2483.5602982 test: 2488.9009150 best: 2488.9009150 (17) total: 374ms remaining: 1.7s
18: learn: 2428.6480882 test: 2433.1382142 best: 2433.1382142 (18) total: 392ms remaining: 1.67s
19: learn: 2380.6674889 test: 2383.4138598 best: 2383.4138598 (19) total: 411ms remaining: 1.64s
20: learn: 2337.6162753 test: 2339.4614184 best: 2339.4614184 (20) total: 430ms remaining: 1.62s

21: learn: 2298.5119692 test: 2299.1820833 best: 2299.1820833 (21) total: 449ms remaining: 1.59s
22: learn: 2263.8890747 test: 2262.9179738 best: 2262.9179738 (22) total: 470ms remaining: 1.57s
23: learn: 2233.3128699 test: 2231.6692719 best: 2231.6692719 (23) total: 489ms remaining: 1.55s
24: learn: 2207.6492543 test: 2205.0448901 best: 2205.0448901 (24) total: 509ms remaining: 1.53s
25: learn: 2183.6580142 test: 2180.6156846 best: 2180.6156846 (25) total: 528ms remaining: 1.5s
26: learn: 2163.0350543 test: 2158.9153436 best: 2158.9153436 (26) total: 547ms remaining: 1.48s
27: learn: 2144.0659765 test: 2139.6260156 best: 2139.6260156 (27) total: 570ms remaining: 1.47s
28: learn: 2120.2226500 test: 2115.5680100 best: 2115.5680100 (28) total: 589ms remaining: 1.44s
29: learn: 2104.8787921 test: 2099.9345256 best: 2099.9345256 (29) total: 607ms remaining: 1.42s
30: learn: 2089.3692483 test: 2083.6347967 best: 2083.6347967 (30) total: 626ms remaining: 1.39s
31: learn: 2072.2087203 test: 2065.6218043 best: 2065.6218043 (31) total: 645ms remaining: 1.37s
32: learn: 2060.8454059 test: 2054.3857029 best: 2054.3857029 (32) total: 665ms remaining: 1.35s
33: learn: 2048.4231381 test: 2041.5494662 best: 2041.5494662 (33) total: 683ms remaining: 1.32s
34: learn: 2033.9344257 test: 2026.6132591 best: 2026.6132591 (34) total: 701ms remaining: 1.3s
35: learn: 2024.3953016 test: 2017.1731173 best: 2017.1731173 (35) total: 721ms remaining: 1.28s
36: learn: 2015.3938645 test: 2008.0864220 best: 2008.0864220 (36) total: 740ms remaining: 1.26s
37: learn: 2007.0117941 test: 1999.3590474 best: 1999.3590474 (37) total: 763ms remaining: 1.24s
38: learn: 2000.0337113 test: 1992.7475152 best: 1992.7475152 (38) total: 780ms remaining: 1.22s
39: learn: 1989.8906840 test: 1982.1446262 best: 1982.1446262 (39) total: 799ms remaining: 1.2s
40: learn: 1982.7747098 test: 1975.3052992 best: 1975.3052992 (40) total: 818ms remaining: 1.18s
41: learn: 1975.4372875 test: 1967.4239852 best: 1967.4239852 (41) total: 836ms remaining: 1.15s
42: learn: 1968.3109795 test: 1960.6261521 best: 1960.6261521 (42) total: 855ms remaining: 1.13s
43: learn: 1962.9524848 test: 1955.2945831 best: 1955.2945831 (43) total: 875ms remaining: 1.11s
44: learn: 1956.7320798 test: 1949.0263317 best: 1949.0263317 (44) total: 894ms remaining: 1.09s
45: learn: 1950.8080774 test: 1943.2136414 best: 1943.2136414 (45) total: 911ms remaining: 1.07s
46: learn: 1945.2868253 test: 1938.1839225 best: 1938.1839225 (46) total: 932ms remaining: 1.05s
47: learn: 1939.7667151 test: 1932.8167517 best: 1932.8167517 (47) total: 950ms remaining: 1.03s
48: learn: 1934.8808625 test: 1927.2300638 best: 1927.2300638 (48) total: 972ms remaining: 1.01s
49: learn: 1929.6053176 test: 1922.1180487 best: 1922.1180487 (49) total: 989ms remaining: 989ms
50: learn: 1925.6225036 test: 1918.4019967 best: 1918.4019967 (50) total: 1s remaining: 966ms
51: learn: 1921.3835253 test: 1914.1761740 best: 1914.1761740 (51) total: 1.02s remaining: 945ms
52: learn: 1917.5477420 test: 1910.6304371 best: 1910.6304371 (52) total: 1.04s remaining: 923ms
53: learn: 1913.2567988 test: 1906.3483507 best: 1906.3483507 (53) total: 1.06s remaining: 903ms
54: learn: 1910.4921127 test: 1903.6457311 best: 1903.6457311 (54) total: 1.08s remaining: 882ms
55: learn: 1907.2147916 test: 1900.3450211 best: 1900.3450211 (55) total: 1.09s remaining: 860ms
56: learn: 1900.5098815 test: 1894.2523775 best: 1894.2523775 (56) total: 1.12s remaining: 842ms
57: learn: 1897.2520602 test: 1891.2774540 best: 1891.2774540 (57) total: 1.14s remaining: 823ms
58: learn: 1894.2262581 test: 1888.6030380 best: 1888.6030380 (58) total: 1.16s remaining: 806ms
59: learn: 1890.9156132 test: 1885.3611878 best: 1885.3611878 (59) total: 1.18s remaining: 786ms
60: learn: 1884.6150897 test: 1878.9858066 best: 1878.9858066 (60) total: 1.2s remaining: 766ms
61: learn: 1881.8957916 test: 1875.9210569 best: 1875.9210569 (61) total: 1.22s remaining: 745ms

62: learn: 1879.5445134 test: 1873.3445763 best: 1873.3445763 (62) total: 1.23s remaining: 724ms
63: learn: 1877.3607520 test: 1871.4582705 best: 1871.4582705 (63) total: 1.25s remaining: 704ms
64: learn: 1872.1356608 test: 1865.9809126 best: 1865.9809126 (64) total: 1.27s remaining: 684ms
65: learn: 1869.0413197 test: 1862.8925406 best: 1862.8925406 (65) total: 1.29s remaining: 664ms
66: learn: 1865.8971914 test: 1859.4222182 best: 1859.4222182 (66) total: 1.31s remaining: 644ms
67: learn: 1863.6874699 test: 1857.3089595 best: 1857.3089595 (67) total: 1.33s remaining: 624ms
68: learn: 1860.7346603 test: 1854.3352095 best: 1854.3352095 (68) total: 1.35s remaining: 606ms
69: learn: 1858.1830375 test: 1851.7166114 best: 1851.7166114 (69) total: 1.37s remaining: 588ms
70: learn: 1856.2004916 test: 1849.8880448 best: 1849.8880448 (70) total: 1.39s remaining: 568ms
71: learn: 1853.9063843 test: 1847.7341172 best: 1847.7341172 (71) total: 1.41s remaining: 548ms
72: learn: 1851.7114457 test: 1845.5785626 best: 1845.5785626 (72) total: 1.43s remaining: 528ms
73: learn: 1849.7967712 test: 1843.6280809 best: 1843.6280809 (73) total: 1.44s remaining: 507ms
74: learn: 1848.2392746 test: 1842.3650643 best: 1842.3650643 (74) total: 1.46s remaining: 488ms
75: learn: 1846.4349664 test: 1840.5789828 best: 1840.5789828 (75) total: 1.48s remaining: 468ms
76: learn: 1844.9595420 test: 1839.5054049 best: 1839.5054049 (76) total: 1.5s remaining: 447ms
77: learn: 1842.2343399 test: 1836.6952544 best: 1836.6952544 (77) total: 1.52s remaining: 428ms
78: learn: 1840.3449785 test: 1835.1396599 best: 1835.1396599 (78) total: 1.53s remaining: 408ms
79: learn: 1838.1659432 test: 1832.9773102 best: 1832.9773102 (79) total: 1.56s remaining: 390ms
80: learn: 1835.8566970 test: 1831.2649380 best: 1831.2649380 (80) total: 1.58s remaining: 371ms
81: learn: 1834.4798020 test: 1829.9600018 best: 1829.9600018 (81) total: 1.6s remaining: 351ms
82: learn: 1832.5587773 test: 1828.2983297 best: 1828.2983297 (82) total: 1.62s remaining: 332ms
83: learn: 1830.6459379 test: 1826.4492591 best: 1826.4492591 (83) total: 1.64s remaining: 312ms
84: learn: 1828.9046796 test: 1824.6651116 best: 1824.6651116 (84) total: 1.66s remaining: 293ms
85: learn: 1825.6688625 test: 1821.9191529 best: 1821.9191529 (85) total: 1.68s remaining: 273ms
86: learn: 1823.6792104 test: 1819.6854385 best: 1819.6854385 (86) total: 1.69s remaining: 253ms
87: learn: 1821.3727482 test: 1817.5198868 best: 1817.5198868 (87) total: 1.71s remaining: 233ms
88: learn: 1820.1196760 test: 1816.4592152 best: 1816.4592152 (88) total: 1.74s remaining: 215ms
89: learn: 1818.7425321 test: 1814.6903203 best: 1814.6903203 (89) total: 1.76s remaining: 195ms
90: learn: 1817.3530063 test: 1813.2928336 best: 1813.2928336 (90) total: 1.78s remaining: 176ms
91: learn: 1814.8186604 test: 1811.0235098 best: 1811.0235098 (91) total: 1.8s remaining: 157ms
92: learn: 1812.9544693 test: 1809.2089561 best: 1809.2089561 (92) total: 1.82s remaining: 137ms
93: learn: 1809.9457368 test: 1806.1320423 best: 1806.1320423 (93) total: 1.84s remaining: 117ms
94: learn: 1807.8814929 test: 1804.1432911 best: 1804.1432911 (94) total: 1.86s remaining: 98ms
95: learn: 1806.7861169 test: 1803.1565819 best: 1803.1565819 (95) total: 1.88s remaining: 78.3ms
96: learn: 1805.5429181 test: 1801.9078506 best: 1801.9078506 (96) total: 1.9s remaining: 58.7ms
97: learn: 1803.5514687 test: 1800.0199922 best: 1800.0199922 (97) total: 1.92s remaining: 39.2ms
98: learn: 1802.2519259 test: 1798.8744058 best: 1798.8744058 (98) total: 1.94s remaining: 19.6ms
99: learn: 1800.6756586 test: 1797.5411546 best: 1797.5411546 (99) total: 1.96s remaining: 0us

bestTest = 1797.541155

bestIteration = 99

55: loss: 1797.5411546 best: 1787.3864554 (43) total: 2m 6s remaining: 1m 30s
0: learn: 6804.5612021 test: 6832.1518187 best: 6832.1518187 (0) total: 24.9ms remaining: 3.7s
1: learn: 6635.9072011 test: 6663.3119347 best: 6663.3119347 (1) total: 45.4ms remaining: 3.36s
2: learn: 6471.8964804 test: 6499.4334415 best: 6499.4334415 (2) total: 65.5ms remaining: 3.21s
3: learn: 6311.0186572 test: 6338.1499885 best: 6338.1499885 (3) total: 88.3ms remaining: 3.22s
4: learn: 6157.4860930 test: 6184.3781802 best: 6184.3781802 (4) total: 109ms remaining: 3.16s
5: learn: 6007.8230759 test: 6034.6949215 best: 6034.6949215 (5) total: 129ms remaining: 3.1s
6: learn: 5862.8958290 test: 5889.7365318 best: 5889.7365318 (6) total: 150ms remaining: 3.06s
7: learn: 5723.0042769 test: 5749.6073944 best: 5749.6073944 (7) total: 170ms remaining: 3.01s
8: learn: 5587.8935436 test: 5613.8942951 best: 5613.8942951 (8) total: 190ms remaining: 2.97s
9: learn: 5457.5123889 test: 5483.3485196 best: 5483.3485196 (9) total: 209ms remaining: 2.92s
10: learn: 5331.8883012 test: 5357.5295375 best: 5357.5295375 (10) total: 228ms remaining: 2.88s
11: learn: 5209.4517141 test: 5234.5889502 best: 5234.5889502 (11) total: 248ms remaining: 2.85s
12: learn: 5092.3169447 test: 5117.2985474 best: 5117.2985474 (12) total: 268ms remaining: 2.83s
13: learn: 4977.0879034 test: 5001.7619413 best: 5001.7619413 (13) total: 292ms remaining: 2.84s
14: learn: 4867.2662687 test: 4891.3801532 best: 4891.3801532 (14) total: 313ms remaining: 2.81s
15: learn: 4762.5950120 test: 4786.1038613 best: 4786.1038613 (15) total: 332ms remaining: 2.78s
16: learn: 4660.3708172 test: 4683.6653039 best: 4683.6653039 (16) total: 351ms remaining: 2.75s
17: learn: 4565.1218285 test: 4588.4880786 best: 4588.4880786 (17) total: 371ms remaining: 2.72s
18: learn: 4468.5790812 test: 4491.8082970 best: 4491.8082970 (18) total: 392ms remaining: 2.7s
19: learn: 4375.4412614 test: 4398.2708795 best: 4398.2708795 (19) total: 413ms remaining: 2.68s
20: learn: 4287.8873926 test: 4310.5037113 best: 4310.5037113 (20) total: 433ms remaining: 2.66s
21: learn: 4203.4600076 test: 4225.4460508 best: 4225.4460508 (21) total: 454ms remaining: 2.64s
22: learn: 4120.5259736 test: 4142.1130818 best: 4142.1130818 (22) total: 481ms remaining: 2.65s
23: learn: 4042.4858484 test: 4063.4379100 best: 4063.4379100 (23) total: 501ms remaining: 2.63s
24: learn: 3965.5624986 test: 3986.1718694 best: 3986.1718694 (24) total: 521ms remaining: 2.6s
25: learn: 3893.2921850 test: 3913.5829988 best: 3913.5829988 (25) total: 540ms remaining: 2.57s
26: learn: 3821.1303096 test: 3840.9003612 best: 3840.9003612 (26) total: 559ms remaining: 2.55s
27: learn: 3750.8291273 test: 3770.1936610 best: 3770.1936610 (27) total: 580ms remaining: 2.53s
28: learn: 3684.9395562 test: 3704.0804700 best: 3704.0804700 (28) total: 600ms remaining: 2.5s
29: learn: 3622.0309539 test: 3640.6438362 best: 3640.6438362 (29) total: 620ms remaining: 2.48s
30: learn: 3559.3872273 test: 3577.5910502 best: 3577.5910502 (30) total: 638ms remaining: 2.45s
31: learn: 3499.4576058 test: 3517.2702857 best: 3517.2702857 (31) total: 658ms remaining: 2.43s
32: learn: 3442.6060372 test: 3459.8220877 best: 3459.8220877 (32) total: 683ms remaining: 2.42s
33: learn: 3388.3555594 test: 3405.3432761 best: 3405.3432761 (33) total: 701ms remaining: 2.39s
34: learn: 3335.4491080 test: 3352.1923331 best: 3352.1923331 (34) total: 720ms remaining: 2.36s
35: learn: 3284.1396480 test: 3300.3162036 best: 3300.3162036 (35) total: 738ms remaining: 2.33s
36: learn: 3235.6638090 test: 3251.4084671 best: 3251.4084671 (36) total: 757ms remaining: 2.31s
37: learn: 3188.2564258 test: 3203.4779571 best: 3203.4779571 (37) total: 777ms remaining: 2.29s
38: learn: 3144.3489099 test: 3159.1324862 best: 3159.1324862 (38) total: 795ms remaining: 2.26s
39: learn: 3101.6130065 test: 3116.0168362 best: 3116.0168362 (39) total: 814ms remaining: 2.24s

33: learn: 3101.0100003 test: 3110.0100002 best: 3110.0100002 (33) total: 814ms remaining: 2.24s
40: learn: 3060.0538543 test: 3074.2342627 best: 3074.2342627 (40) total: 837ms remaining: 2.22s
41: learn: 3020.2461523 test: 3033.7844790 best: 3033.7844790 (41) total: 857ms remaining: 2.2s
42: learn: 2980.7431489 test: 2994.0879501 best: 2994.0879501 (42) total: 880ms remaining: 2.19s
43: learn: 2944.7226147 test: 2957.8184334 best: 2957.8184334 (43) total: 899ms remaining: 2.17s
44: learn: 2910.0107994 test: 2922.7023162 best: 2922.7023162 (44) total: 917ms remaining: 2.14s
45: learn: 2876.8403616 test: 2889.2157432 best: 2889.2157432 (45) total: 937ms remaining: 2.12s
46: learn: 2844.4619315 test: 2856.2496452 best: 2856.2496452 (46) total: 956ms remaining: 2.09s
47: learn: 2813.9348523 test: 2825.6042869 best: 2825.6042869 (47) total: 978ms remaining: 2.08s
48: learn: 2783.7205012 test: 2794.7730384 best: 2794.7730384 (48) total: 997ms remaining: 2.06s
49: learn: 2755.2829758 test: 2765.7993809 best: 2765.7993809 (49) total: 1.01s remaining: 2.03s
50: learn: 2727.9243666 test: 2737.7051874 best: 2737.7051874 (50) total: 1.03s remaining: 2.01s
51: learn: 2701.0597194 test: 2710.0595102 best: 2710.0595102 (51) total: 1.05s remaining: 1.99s
52: learn: 2675.6769330 test: 2684.1847165 best: 2684.1847165 (52) total: 1.08s remaining: 1.98s
53: learn: 2651.8029342 test: 2659.9886661 best: 2659.9886661 (53) total: 1.11s remaining: 1.97s
54: learn: 2628.1449476 test: 2635.8194029 best: 2635.8194029 (54) total: 1.13s remaining: 1.94s
55: learn: 2605.6994495 test: 2612.8170890 best: 2612.8170890 (55) total: 1.15s remaining: 1.92s
56: learn: 2583.9826867 test: 2590.5554525 best: 2590.5554525 (56) total: 1.17s remaining: 1.9s
57: learn: 2562.9729179 test: 2569.0847052 best: 2569.0847052 (57) total: 1.19s remaining: 1.88s
58: learn: 2542.0982434 test: 2547.7834261 best: 2547.7834261 (58) total: 1.2s remaining: 1.86s
59: learn: 2523.1313185 test: 2528.5402456 best: 2528.5402456 (59) total: 1.22s remaining: 1.84s
60: learn: 2504.5138502 test: 2509.4883999 best: 2509.4883999 (60) total: 1.24s remaining: 1.81s
61: learn: 2487.2495449 test: 2491.9190422 best: 2491.9190422 (61) total: 1.26s remaining: 1.79s
62: learn: 2469.7670396 test: 2473.9973531 best: 2473.9973531 (62) total: 1.28s remaining: 1.77s
63: learn: 2452.6816976 test: 2456.5235514 best: 2456.5235514 (63) total: 1.3s remaining: 1.75s
64: learn: 2437.0365486 test: 2440.4743384 best: 2440.4743384 (64) total: 1.32s remaining: 1.73s
65: learn: 2421.3578449 test: 2424.4767704 best: 2424.4767704 (65) total: 1.34s remaining: 1.71s
66: learn: 2406.2671952 test: 2408.9644224 best: 2408.9644224 (66) total: 1.36s remaining: 1.68s
67: learn: 2392.5189373 test: 2394.8477054 best: 2394.8477054 (67) total: 1.38s remaining: 1.67s
68: learn: 2379.1974051 test: 2381.1502976 best: 2381.1502976 (68) total: 1.4s remaining: 1.65s
69: learn: 2365.5696068 test: 2367.2423310 best: 2367.2423310 (69) total: 1.42s remaining: 1.62s
70: learn: 2352.5219824 test: 2353.7861684 best: 2353.7861684 (70) total: 1.44s remaining: 1.6s
71: learn: 2340.4113668 test: 2341.3690012 best: 2341.3690012 (71) total: 1.46s remaining: 1.58s
72: learn: 2328.3048226 test: 2328.9564415 best: 2328.9564415 (72) total: 1.48s remaining: 1.56s
73: learn: 2317.1880243 test: 2317.5690381 best: 2317.5690381 (73) total: 1.5s remaining: 1.54s
74: learn: 2306.0507874 test: 2306.2651589 best: 2306.2651589 (74) total: 1.52s remaining: 1.52s
75: learn: 2293.6630861 test: 2293.6037970 best: 2293.6037970 (75) total: 1.53s remaining: 1.49s
76: learn: 2282.5510893 test: 2282.2074727 best: 2282.2074727 (76) total: 1.55s remaining: 1.47s
77: learn: 2271.0164593 test: 2270.4621679 best: 2270.4621679 (77) total: 1.57s remaining: 1.45s
78: learn: 2261.5038092 test: 2260.6808649 best: 2260.6808649 (78) total: 1.59s remaining: 1.43s
79: learn: 2252.0808992 test: 2251.0694866 best: 2251.0694866 (79) total: 1.61s remaining: 1.41s
80: learn: 2242.0009865 test: 2240.8101373 best: 2240.8101373 (80) total: 1.63s remaining: 1.39s

81: learn: 2233.2974710 test: 2232.0590538 best: 2232.0590538 (81) total: 1.65s remaining: 1.37s
82: learn: 2224.7662483 test: 2223.2954722 best: 2223.2954722 (82) total: 1.67s remaining: 1.35s
83: learn: 2216.8571824 test: 2215.2751891 best: 2215.2751891 (83) total: 1.69s remaining: 1.32s
84: learn: 2208.7930741 test: 2206.7452011 best: 2206.7452011 (84) total: 1.7s remaining: 1.3s
85: learn: 2201.1837940 test: 2198.9550362 best: 2198.9550362 (85) total: 1.72s remaining: 1.28s
86: learn: 2192.8632696 test: 2190.2791322 best: 2190.2791322 (86) total: 1.74s remaining: 1.26s
87: learn: 2186.2869251 test: 2183.4165102 best: 2183.4165102 (87) total: 1.76s remaining: 1.24s
88: learn: 2179.6103931 test: 2176.3250262 best: 2176.3250262 (88) total: 1.78s remaining: 1.22s
89: learn: 2172.5205335 test: 2169.0823958 best: 2169.0823958 (89) total: 1.8s remaining: 1.2s
90: learn: 2165.8219903 test: 2162.0908842 best: 2162.0908842 (90) total: 1.82s remaining: 1.18s
91: learn: 2158.0859151 test: 2154.1825778 best: 2154.1825778 (91) total: 1.84s remaining: 1.16s
92: learn: 2151.6327872 test: 2147.4596342 best: 2147.4596342 (92) total: 1.86s remaining: 1.14s
93: learn: 2145.7392469 test: 2141.4625839 best: 2141.4625839 (93) total: 1.89s remaining: 1.13s
94: learn: 2139.9357124 test: 2135.4650445 best: 2135.4650445 (94) total: 1.91s remaining: 1.11s
95: learn: 2134.4135800 test: 2129.8752555 best: 2129.8752555 (95) total: 1.94s remaining: 1.09s
96: learn: 2129.0797392 test: 2124.2790467 best: 2124.2790467 (96) total: 1.98s remaining: 1.08s
97: learn: 2123.6816906 test: 2118.7773260 best: 2118.7773260 (97) total: 2.01s remaining: 1.07s
98: learn: 2118.0448915 test: 2112.9487727 best: 2112.9487727 (98) total: 2.04s remaining: 1.05s
99: learn: 2113.2825687 test: 2108.0455614 best: 2108.0455614 (99) total: 2.07s remaining: 1.03s
100: learn: 2107.6772164 test: 2102.5637305 best: 2102.5637305 (100) total: 2.1s remaining: 1.02s
101: learn: 2102.9805383 test: 2097.6092053 best: 2097.6092053 (101) total: 2.12s remaining: 999ms
102: learn: 2097.9882688 test: 2092.4952489 best: 2092.4952489 (102) total: 2.14s remaining: 977ms
103: learn: 2092.8735650 test: 2087.3091925 best: 2087.3091925 (103) total: 2.17s remaining: 958ms
104: learn: 2088.5159736 test: 2082.7448558 best: 2082.7448558 (104) total: 2.18s remaining: 936ms
105: learn: 2083.5463696 test: 2077.5925525 best: 2077.5925525 (105) total: 2.2s remaining: 914ms
106: learn: 2079.3602635 test: 2073.3921644 best: 2073.3921644 (106) total: 2.22s remaining: 893ms
107: learn: 2075.2793233 test: 2069.2949059 best: 2069.2949059 (107) total: 2.24s remaining: 871ms
108: learn: 2070.7856404 test: 2064.6435665 best: 2064.6435665 (108) total: 2.26s remaining: 850ms
109: learn: 2066.5850771 test: 2060.2494239 best: 2060.2494239 (109) total: 2.28s remaining: 829ms
110: learn: 2061.8770403 test: 2055.4675879 best: 2055.4675879 (110) total: 2.3s remaining: 808ms
111: learn: 2057.5949534 test: 2051.0951042 best: 2051.0951042 (111) total: 2.32s remaining: 787ms
112: learn: 2054.1010917 test: 2047.5881924 best: 2047.5881924 (112) total: 2.34s remaining: 765ms
113: learn: 2049.6543097 test: 2043.1213978 best: 2043.1213978 (113) total: 2.36s remaining: 744ms
114: learn: 2045.9382975 test: 2039.1834406 best: 2039.1834406 (114) total: 2.38s remaining: 724ms
115: learn: 2042.6920862 test: 2035.8994939 best: 2035.8994939 (115) total: 2.4s remaining: 702ms
116: learn: 2039.4724242 test: 2032.7081792 best: 2032.7081792 (116) total: 2.41s remaining: 681ms
117: learn: 2036.4630241 test: 2029.6985792 best: 2029.6985792 (117) total: 2.43s remaining: 660ms
118: learn: 2033.6009596 test: 2026.8054885 best: 2026.8054885 (118) total: 2.45s remaining: 638ms
119: learn: 2030.9648079 test: 2024.1416042 best: 2024.1416042 (119) total: 2.47s remaining: 619ms
120: learn: 2028.2137263 test: 2021.2964862 best: 2021.2964862 (120) total: 2.49s remaining: 598ms
121: learn: 2025.1027105 test: 2018.0847603 best: 2018.0847603 (121) total: 2.51s remaining: 577ms

122: learn: 2022.3644226 test: 2015.0969446 best: 2015.0969446 (122) total: 2.53s remaining: 555ms
123: learn: 2019.5868349 test: 2012.3320685 best: 2012.3320685 (123) total: 2.55s remaining: 535ms
124: learn: 2016.9157524 test: 2009.5344147 best: 2009.5344147 (124) total: 2.57s remaining: 514ms
125: learn: 2014.4055194 test: 2007.0632567 best: 2007.0632567 (125) total: 2.59s remaining: 493ms
126: learn: 2011.5509971 test: 2004.0710485 best: 2004.0710485 (126) total: 2.6s remaining: 472ms
127: learn: 2009.2348369 test: 2001.7028688 best: 2001.7028688 (127) total: 2.62s remaining: 451ms
128: learn: 2006.7760495 test: 1999.1813018 best: 1999.1813018 (128) total: 2.64s remaining: 430ms
129: learn: 2004.0014974 test: 1996.3581079 best: 1996.3581079 (129) total: 2.66s remaining: 410ms
130: learn: 2001.6926030 test: 1994.1530473 best: 1994.1530473 (130) total: 2.68s remaining: 389ms
131: learn: 1999.0495482 test: 1991.5131574 best: 1991.5131574 (131) total: 2.7s remaining: 369ms
132: learn: 1996.6469373 test: 1989.0517410 best: 1989.0517410 (132) total: 2.72s remaining: 348ms
133: learn: 1994.3337481 test: 1986.6612804 best: 1986.6612804 (133) total: 2.74s remaining: 327ms
134: learn: 1992.0557510 test: 1984.3617745 best: 1984.3617745 (134) total: 2.76s remaining: 306ms
135: learn: 1989.8844697 test: 1982.1035979 best: 1982.1035979 (135) total: 2.78s remaining: 286ms
136: learn: 1986.2994963 test: 1978.3607848 best: 1978.3607848 (136) total: 2.8s remaining: 265ms
137: learn: 1984.1717056 test: 1976.2854413 best: 1976.2854413 (137) total: 2.81s remaining: 245ms
138: learn: 1981.6911557 test: 1973.7940906 best: 1973.7940906 (138) total: 2.83s remaining: 224ms
139: learn: 1979.4904694 test: 1971.5155685 best: 1971.5155685 (139) total: 2.85s remaining: 204ms
140: learn: 1977.1117340 test: 1969.0598064 best: 1969.0598064 (140) total: 2.88s remaining: 184ms
141: learn: 1975.1539429 test: 1967.3008063 best: 1967.3008063 (141) total: 2.9s remaining: 163ms
142: learn: 1973.2139463 test: 1965.2502822 best: 1965.2502822 (142) total: 2.91s remaining: 143ms
143: learn: 1971.1953516 test: 1963.3524680 best: 1963.3524680 (143) total: 2.93s remaining: 122ms
144: learn: 1968.2873295 test: 1960.4371545 best: 1960.4371545 (144) total: 2.95s remaining: 102ms
145: learn: 1966.1318516 test: 1958.1681440 best: 1958.1681440 (145) total: 2.97s remaining: 81.3ms
146: learn: 1964.1325532 test: 1956.2268116 best: 1956.2268116 (146) total: 2.98s remaining: 60.9ms
147: learn: 1962.5962540 test: 1954.7888591 best: 1954.7888591 (147) total: 3s remaining: 40.6ms
148: learn: 1960.6195785 test: 1952.7931319 best: 1952.7931319 (148) total: 3.02s remaining: 20.3ms
149: learn: 1958.9151125 test: 1951.2949674 best: 1951.2949674 (149) total: 3.04s remaining: 0us

bestTest = 1951.294967

bestIteration = 149

56: loss: 1951.2949674 best: 1787.3864554 (43) total: 2m 9s remaining: 1m 28s
0: learn: 6393.6683215 test: 6420.0788713 best: 6420.0788713 (0) total: 21.4ms remaining: 3.19s
1: learn: 5880.7661970 test: 5906.6708360 best: 5906.6708360 (1) total: 40.4ms remaining: 2.99s
2: learn: 5412.1284567 test: 5437.8372776 best: 5437.8372776 (2) total: 60.2ms remaining: 2.95s
3: learn: 5002.1028345 test: 5027.0492732 best: 5027.0492732 (3) total: 85.3ms remaining: 3.11s
4: learn: 4639.4152616 test: 4663.2663912 best: 4663.2663912 (4) total: 111ms remaining: 3.22s
5: learn: 4317.6965705 test: 4340.9483172 best: 4340.9483172 (5) total: 134ms remaining: 3.21s
6: learn: 4028.6557988 test: 4050.4034335 best: 4050.4034335 (6) total: 157ms remaining: 3.2s
7: learn: 3773.5612783 test: 3794.1905463 best: 3794.1905463 (7) total: 180ms remaining: 3.19s

8: learn: 3552.2443661 test: 3570.9005814 best: 3570.9005814 (8) total: 203ms remaining: 3.18s
9: learn: 3357.9209897 test: 3376.0619296 best: 3376.0619296 (9) total: 224ms remaining: 3.13s
10: learn: 3189.7096310 test: 3205.9776836 best: 3205.9776836 (10) total: 246ms remaining: 3.11s
11: learn: 3041.8550902 test: 3056.4804548 best: 3056.4804548 (11) total: 265ms remaining: 3.05s
12: learn: 2919.0601519 test: 2932.4405524 best: 2932.4405524 (12) total: 286ms remaining: 3.01s
13: learn: 2803.1109467 test: 2815.4329311 best: 2815.4329311 (13) total: 306ms remaining: 2.97s
14: learn: 2705.7633348 test: 2715.9570922 best: 2715.9570922 (14) total: 329ms remaining: 2.96s
15: learn: 2620.3703734 test: 2628.7397901 best: 2628.7397901 (15) total: 349ms remaining: 2.92s
16: learn: 2545.2130937 test: 2552.4355260 best: 2552.4355260 (16) total: 368ms remaining: 2.88s
17: learn: 2481.6566370 test: 2487.1433481 best: 2487.1433481 (17) total: 388ms remaining: 2.84s
18: learn: 2426.7886137 test: 2431.4233666 best: 2431.4233666 (18) total: 410ms remaining: 2.83s
19: learn: 2378.8526848 test: 2381.7550125 best: 2381.7550125 (19) total: 428ms remaining: 2.78s
20: learn: 2335.7471057 test: 2337.7378652 best: 2337.7378652 (20) total: 446ms remaining: 2.74s
21: learn: 2296.6059667 test: 2297.4442296 best: 2297.4442296 (21) total: 464ms remaining: 2.7s
22: learn: 2262.0164022 test: 2261.2300432 best: 2261.2300432 (22) total: 485ms remaining: 2.67s
23: learn: 2231.4587618 test: 2230.0128231 best: 2230.0128231 (23) total: 505ms remaining: 2.65s
24: learn: 2205.8578095 test: 2203.4692544 best: 2203.4692544 (24) total: 522ms remaining: 2.61s
25: learn: 2181.8713903 test: 2179.0574718 best: 2179.0574718 (25) total: 541ms remaining: 2.58s
26: learn: 2161.2733850 test: 2157.3817264 best: 2157.3817264 (26) total: 560ms remaining: 2.55s
27: learn: 2142.2764132 test: 2138.2172091 best: 2138.2172091 (27) total: 578ms remaining: 2.52s
28: learn: 2118.8750754 test: 2114.6018645 best: 2114.6018645 (28) total: 604ms remaining: 2.52s
29: learn: 2103.5371318 test: 2098.9924029 best: 2098.9924029 (29) total: 622ms remaining: 2.49s
30: learn: 2087.9980356 test: 2082.7007655 best: 2082.7007655 (30) total: 640ms remaining: 2.46s
31: learn: 2070.9059790 test: 2064.7534974 best: 2064.7534974 (31) total: 662ms remaining: 2.44s
32: learn: 2059.5302615 test: 2053.6878232 best: 2053.6878232 (32) total: 682ms remaining: 2.42s
33: learn: 2047.1252621 test: 2040.8984885 best: 2040.8984885 (33) total: 705ms remaining: 2.4s
34: learn: 2032.6729282 test: 2025.9895232 best: 2025.9895232 (34) total: 724ms remaining: 2.38s
35: learn: 2023.0652606 test: 2016.6085194 best: 2016.6085194 (35) total: 743ms remaining: 2.35s
36: learn: 2014.3521926 test: 2007.8840086 best: 2007.8840086 (36) total: 761ms remaining: 2.32s
37: learn: 2006.0704962 test: 1999.2618614 best: 1999.2618614 (37) total: 780ms remaining: 2.3s
38: learn: 1998.5401108 test: 1991.7512797 best: 1991.7512797 (38) total: 802ms remaining: 2.28s
39: learn: 1986.9315932 test: 1979.6615047 best: 1979.6615047 (39) total: 821ms remaining: 2.26s
40: learn: 1980.5514847 test: 1973.2371641 best: 1973.2371641 (40) total: 840ms remaining: 2.23s
41: learn: 1971.8334006 test: 1964.5024975 best: 1964.5024975 (41) total: 861ms remaining: 2.21s
42: learn: 1964.7855708 test: 1957.0961273 best: 1957.0961273 (42) total: 880ms remaining: 2.19s
43: learn: 1958.5305973 test: 1950.8385928 best: 1950.8385928 (43) total: 898ms remaining: 2.16s
44: learn: 1952.8354640 test: 1944.9209626 best: 1944.9209626 (44) total: 916ms remaining: 2.14s
45: learn: 1946.8092463 test: 1938.6877116 best: 1938.6877116 (45) total: 935ms remaining: 2.11s
46: learn: 1941.3923700 test: 1933.6714248 best: 1933.6714248 (46) total: 953ms remaining: 2.09s
47: learn: 1937.0437250 test: 1929.3526147 best: 1929.3526147 (47) total: 971ms remaining: 2.06s
48: learn: 1930.1734760 test: 1922.4349756 best: 1922.4349756 (48) total: 993ms remaining: 2.05s
49: learn: 1925.3261263 test: 1917.4016831 best: 1917.4016831 (49) total: 1.01s remaining: 2.02s

49: learn: 1820.8257203 test: 1817.1616687 best: 1817.1616687 (49) total: 1.03s remaining: 1.92s
50: learn: 1921.2478583 test: 1913.6410503 best: 1913.6410503 (50) total: 1.03s remaining: 1.99s
51: learn: 1914.5127228 test: 1907.7037402 best: 1907.7037402 (51) total: 1.04s remaining: 1.97s
52: learn: 1911.1105975 test: 1904.4964910 best: 1904.4964910 (52) total: 1.06s remaining: 1.94s
53: learn: 1907.7982643 test: 1901.1269033 best: 1901.1269033 (53) total: 1.08s remaining: 1.92s
54: learn: 1904.7956015 test: 1898.2015948 best: 1898.2015948 (54) total: 1.1s remaining: 1.9s
55: learn: 1900.3859350 test: 1893.5231529 best: 1893.5231529 (55) total: 1.12s remaining: 1.88s
56: learn: 1896.3304700 test: 1889.6190806 best: 1889.6190806 (56) total: 1.14s remaining: 1.85s
57: learn: 1891.7128011 test: 1884.8963136 best: 1884.8963136 (57) total: 1.16s remaining: 1.83s
58: learn: 1889.0431735 test: 1882.8758049 best: 1882.8758049 (58) total: 1.17s remaining: 1.81s
59: learn: 1884.6572319 test: 1878.3244370 best: 1878.3244370 (59) total: 1.19s remaining: 1.79s
60: learn: 1879.7775296 test: 1873.4690499 best: 1873.4690499 (60) total: 1.21s remaining: 1.77s
61: learn: 1876.9233524 test: 1870.4132789 best: 1870.4132789 (61) total: 1.23s remaining: 1.75s
62: learn: 1873.6397489 test: 1867.3546087 best: 1867.3546087 (62) total: 1.25s remaining: 1.72s
63: learn: 1871.2406321 test: 1865.2699514 best: 1865.2699514 (63) total: 1.26s remaining: 1.7s
64: learn: 1868.3465709 test: 1862.8325043 best: 1862.8325043 (64) total: 1.29s remaining: 1.69s
65: learn: 1866.3324756 test: 1860.9752071 best: 1860.9752071 (65) total: 1.3s remaining: 1.66s
66: learn: 1864.0026805 test: 1858.8354747 best: 1858.8354747 (66) total: 1.32s remaining: 1.64s
67: learn: 1861.6382583 test: 1856.5388546 best: 1856.5388546 (67) total: 1.34s remaining: 1.61s
68: learn: 1858.8274336 test: 1853.7302159 best: 1853.7302159 (68) total: 1.36s remaining: 1.59s
69: learn: 1856.5586930 test: 1851.6652603 best: 1851.6652603 (69) total: 1.38s remaining: 1.57s
70: learn: 1853.9655898 test: 1849.0785196 best: 1849.0785196 (70) total: 1.4s remaining: 1.55s
71: learn: 1849.4269779 test: 1844.4298164 best: 1844.4298164 (71) total: 1.42s remaining: 1.53s
72: learn: 1847.5244065 test: 1842.3819971 best: 1842.3819971 (72) total: 1.43s remaining: 1.51s
73: learn: 1845.3226823 test: 1840.1532801 best: 1840.1532801 (73) total: 1.45s remaining: 1.49s
74: learn: 1842.8413795 test: 1837.8333551 best: 1837.8333551 (74) total: 1.47s remaining: 1.47s
75: learn: 1839.4042511 test: 1835.0267228 best: 1835.0267228 (75) total: 1.49s remaining: 1.45s
76: learn: 1838.0078394 test: 1833.9169119 best: 1833.9169119 (76) total: 1.51s remaining: 1.43s
77: learn: 1836.6960672 test: 1832.4131564 best: 1832.4131564 (77) total: 1.52s remaining: 1.41s
78: learn: 1835.2139034 test: 1831.3444619 best: 1831.3444619 (78) total: 1.54s remaining: 1.38s
79: learn: 1832.4118997 test: 1829.2094653 best: 1829.2094653 (79) total: 1.56s remaining: 1.36s
80: learn: 1829.7348850 test: 1827.1949229 best: 1827.1949229 (80) total: 1.58s remaining: 1.34s
81: learn: 1828.1768289 test: 1825.5131797 best: 1825.5131797 (81) total: 1.59s remaining: 1.32s
82: learn: 1824.4299973 test: 1822.0200988 best: 1822.0200988 (82) total: 1.61s remaining: 1.3s
83: learn: 1823.0816791 test: 1820.8259657 best: 1820.8259657 (83) total: 1.63s remaining: 1.28s
84: learn: 1821.0351697 test: 1818.7947445 best: 1818.7947445 (84) total: 1.65s remaining: 1.26s
85: learn: 1819.5573281 test: 1817.3927410 best: 1817.3927410 (85) total: 1.67s remaining: 1.24s
86: learn: 1818.2616658 test: 1816.0826067 best: 1816.0826067 (86) total: 1.69s remaining: 1.22s
87: learn: 1816.0677428 test: 1813.9326796 best: 1813.9326796 (87) total: 1.7s remaining: 1.2s
88: learn: 1814.7723742 test: 1812.7149739 best: 1812.7149739 (88) total: 1.72s remaining: 1.18s
89: learn: 1812.2677669 test: 1810.6179296 best: 1810.6179296 (89) total: 1.74s remaining: 1.16s
90: learn: 1810.6885182 test: 1809.1725982 best: 1809.1725982 (90) total: 1.76s remaining: 1.14s

91: learn: 1808.2627170 test: 1806.8400879 best: 1806.8400879 (91) total: 1.78s remaining: 1.12s
92: learn: 1806.2334154 test: 1804.8309374 best: 1804.8309374 (92) total: 1.8s remaining: 1.1s
93: learn: 1804.6404634 test: 1803.6400405 best: 1803.6400405 (93) total: 1.82s remaining: 1.08s
94: learn: 1803.0230184 test: 1802.0903276 best: 1802.0903276 (94) total: 1.84s remaining: 1.06s
95: learn: 1801.1658474 test: 1800.4207030 best: 1800.4207030 (95) total: 1.86s remaining: 1.04s
96: learn: 1799.2493007 test: 1798.8969393 best: 1798.8969393 (96) total: 1.88s remaining: 1.03s
97: learn: 1797.6832497 test: 1797.5003410 best: 1797.5003410 (97) total: 1.9s remaining: 1.01s
98: learn: 1796.3492526 test: 1796.1911928 best: 1796.1911928 (98) total: 1.92s remaining: 989ms
99: learn: 1794.1019032 test: 1794.1653449 best: 1794.1653449 (99) total: 1.94s remaining: 969ms
100: learn: 1792.7122921 test: 1792.6998451 best: 1792.6998451 (100) total: 1.96s remaining: 949ms
101: learn: 1791.7515698 test: 1791.8409484 best: 1791.8409484 (101) total: 1.98s remaining: 931ms
102: learn: 1790.6727270 test: 1790.6270890 best: 1790.6270890 (102) total: 2s remaining: 914ms
103: learn: 1788.8767474 test: 1788.8503478 best: 1788.8503478 (103) total: 2.02s remaining: 896ms
104: learn: 1787.1094771 test: 1787.1604802 best: 1787.1604802 (104) total: 2.04s remaining: 877ms
105: learn: 1785.9240808 test: 1786.1898017 best: 1786.1898017 (105) total: 2.06s remaining: 857ms
106: learn: 1784.7645979 test: 1785.2862777 best: 1785.2862777 (106) total: 2.09s remaining: 840ms
107: learn: 1782.8337816 test: 1783.7523997 best: 1783.7523997 (107) total: 2.11s remaining: 820ms
108: learn: 1781.3406027 test: 1782.1448434 best: 1782.1448434 (108) total: 2.13s remaining: 800ms
109: learn: 1779.9657255 test: 1781.1738534 best: 1781.1738534 (109) total: 2.14s remaining: 780ms
110: learn: 1778.9250622 test: 1780.2503006 best: 1780.2503006 (110) total: 2.16s remaining: 760ms
111: learn: 1777.7981640 test: 1779.1376090 best: 1779.1376090 (111) total: 2.18s remaining: 740ms
112: learn: 1776.1900493 test: 1777.6516321 best: 1777.6516321 (112) total: 2.21s remaining: 723ms
113: learn: 1775.1977729 test: 1777.2835777 best: 1777.2835777 (113) total: 2.23s remaining: 703ms
114: learn: 1773.6319998 test: 1775.7657408 best: 1775.7657408 (114) total: 2.25s remaining: 684ms
115: learn: 1772.6872973 test: 1774.9137381 best: 1774.9137381 (115) total: 2.26s remaining: 664ms
116: learn: 1771.8328415 test: 1774.2360105 best: 1774.2360105 (116) total: 2.29s remaining: 645ms
117: learn: 1770.8031653 test: 1773.6493637 best: 1773.6493637 (117) total: 2.3s remaining: 625ms
118: learn: 1769.4460370 test: 1772.9881751 best: 1772.9881751 (118) total: 2.32s remaining: 605ms
119: learn: 1767.8594415 test: 1771.7744728 best: 1771.7744728 (119) total: 2.34s remaining: 585ms
120: learn: 1766.2608663 test: 1770.6110899 best: 1770.6110899 (120) total: 2.36s remaining: 565ms
121: learn: 1764.8660617 test: 1769.4191087 best: 1769.4191087 (121) total: 2.38s remaining: 546ms
122: learn: 1764.0179019 test: 1768.7042459 best: 1768.7042459 (122) total: 2.4s remaining: 527ms
123: learn: 1762.8381983 test: 1767.5624665 best: 1767.5624665 (123) total: 2.42s remaining: 507ms
124: learn: 1761.6898641 test: 1766.6238048 best: 1766.6238048 (124) total: 2.44s remaining: 488ms
125: learn: 1760.0127810 test: 1765.3425923 best: 1765.3425923 (125) total: 2.46s remaining: 468ms
126: learn: 1759.1276005 test: 1764.7844646 best: 1764.7844646 (126) total: 2.48s remaining: 449ms
127: learn: 1758.1527278 test: 1764.0748574 best: 1764.0748574 (127) total: 2.5s remaining: 429ms
128: learn: 1756.6900955 test: 1763.1036624 best: 1763.1036624 (128) total: 2.52s remaining: 410ms
129: learn: 1755.6783100 test: 1762.1607764 best: 1762.1607764 (129) total: 2.53s remaining: 390ms
130: learn: 1754.0663956 test: 1761.2018100 best: 1761.2018100 (130) total: 2.55s remaining: 370ms
131: learn: 1753.4214727 test: 1760.7202912 best: 1760.7202912 (131) total: 2.57s remaining: 350ms

132: learn: 1752.0901979 test: 1759.3367299 best: 1759.3367299 (132) total: 2.59s remaining: 331ms
133: learn: 1750.7904726 test: 1758.2218217 best: 1758.2218217 (133) total: 2.61s remaining: 311ms
134: learn: 1748.6529034 test: 1757.1530871 best: 1757.1530871 (134) total: 2.62s remaining: 292ms
135: learn: 1746.8145069 test: 1756.1036156 best: 1756.1036156 (135) total: 2.64s remaining: 272ms
136: learn: 1745.4069096 test: 1754.7225765 best: 1754.7225765 (136) total: 2.66s remaining: 253ms
137: learn: 1744.7456906 test: 1754.1354766 best: 1754.1354766 (137) total: 2.68s remaining: 233ms
138: learn: 1743.5661733 test: 1753.0931949 best: 1753.0931949 (138) total: 2.7s remaining: 214ms
139: learn: 1742.3859473 test: 1752.1407839 best: 1752.1407839 (139) total: 2.72s remaining: 194ms
140: learn: 1741.1490114 test: 1750.7787154 best: 1750.7787154 (140) total: 2.74s remaining: 175ms
141: learn: 1740.0076222 test: 1749.7619650 best: 1749.7619650 (141) total: 2.75s remaining: 155ms
142: learn: 1738.9592214 test: 1748.9396364 best: 1748.9396364 (142) total: 2.77s remaining: 136ms
143: learn: 1737.7519685 test: 1747.7514637 best: 1747.7514637 (143) total: 2.79s remaining: 116ms
144: learn: 1736.8108452 test: 1746.6280155 best: 1746.6280155 (144) total: 2.81s remaining: 96.9ms
145: learn: 1735.3607387 test: 1745.2628982 best: 1745.2628982 (145) total: 2.83s remaining: 77.5ms
146: learn: 1734.4221539 test: 1744.5569811 best: 1744.5569811 (146) total: 2.85s remaining: 58.1ms
147: learn: 1733.4139878 test: 1743.6017890 best: 1743.6017890 (147) total: 2.86s remaining: 38.7ms
148: learn: 1731.9941599 test: 1742.2073072 best: 1742.2073072 (148) total: 2.89s remaining: 19.4ms
149: learn: 1731.0938413 test: 1741.3311752 best: 1741.3311752 (149) total: 2.91s remaining: 0us

bestTest = 1741.331175

bestIteration = 149

57: loss: 1741.3311752 best: 1741.3311752 (57) total: 2m 12s remaining: 1m 26s
0: learn: 6804.5787932 test: 6832.1690385 best: 6832.1690385 (0) total: 20.1ms remaining: 2.99s
1: learn: 6635.9582404 test: 6663.3605190 best: 6663.3605190 (1) total: 39.8ms remaining: 2.94s
2: learn: 6471.9592156 test: 6499.4936652 best: 6499.4936652 (2) total: 59.5ms remaining: 2.92s
3: learn: 6311.0966060 test: 6338.2259853 best: 6338.2259853 (3) total: 81.2ms remaining: 2.96s
4: learn: 6157.5804761 test: 6184.4721737 best: 6184.4721737 (4) total: 102ms remaining: 2.96s
5: learn: 6007.9352368 test: 6034.8070908 best: 6034.8070908 (5) total: 121ms remaining: 2.91s
6: learn: 5863.0232139 test: 5889.8635793 best: 5889.8635793 (6) total: 145ms remaining: 2.97s
7: learn: 5723.1429865 test: 5749.7447001 best: 5749.7447001 (7) total: 176ms remaining: 3.12s
8: learn: 5588.0566775 test: 5614.0572443 best: 5614.0572443 (8) total: 196ms remaining: 3.07s
9: learn: 5457.6855528 test: 5483.5220932 best: 5483.5220932 (9) total: 215ms remaining: 3.01s
10: learn: 5332.0741814 test: 5357.7160826 best: 5357.7160826 (10) total: 235ms remaining: 2.97s
11: learn: 5209.6432833 test: 5234.7811520 best: 5234.7811520 (11) total: 258ms remaining: 2.96s
12: learn: 5092.5279844 test: 5117.5109034 best: 5117.5109034 (12) total: 278ms remaining: 2.93s
13: learn: 4977.3028901 test: 5001.9784874 best: 5001.9784874 (13) total: 300ms remaining: 2.92s
14: learn: 4867.4866420 test: 4891.6020485 best: 4891.6020485 (14) total: 320ms remaining: 2.88s
15: learn: 4762.8180672 test: 4786.3284793 best: 4786.3284793 (15) total: 340ms remaining: 2.85s
16: learn: 4660.6006723 test: 4683.8963656 best: 4683.8963656 (16) total: 365ms remaining: 2.85s
17: learn: 4565.3529958 test: 4588.7195619 best: 4588.7195619 (17) total: 384ms remaining: 2.82s
18: learn: 4468.6188624 test: 4496.3434151 best: 4496.3434151 (18) total: 404ms remaining: 2.79s

18: learn: 4468.8129616 test: 4492.0424047 best: 4492.0424047 (18) total: 404ms remaining: 2.78s
19: learn: 4375.6751113 test: 4398.5049574 best: 4398.5049574 (19) total: 425ms remaining: 2.76s
20: learn: 4288.1191746 test: 4310.7356557 best: 4310.7356557 (20) total: 445ms remaining: 2.73s
21: learn: 4203.6929568 test: 4225.6794159 best: 4225.6794159 (21) total: 467ms remaining: 2.72s
22: learn: 4120.7637892 test: 4142.3508713 best: 4142.3508713 (22) total: 487ms remaining: 2.69s
23: learn: 4042.7231834 test: 4063.6752578 best: 4063.6752578 (23) total: 508ms remaining: 2.67s
24: learn: 3965.8028544 test: 3986.4120236 best: 3986.4120236 (24) total: 527ms remaining: 2.63s
25: learn: 3893.5400939 test: 3913.8309259 best: 3913.8309259 (25) total: 547ms remaining: 2.61s
26: learn: 3821.3873753 test: 3841.1546669 best: 3841.1546669 (26) total: 569ms remaining: 2.59s
27: learn: 3751.0846785 test: 3770.4465379 best: 3770.4465379 (27) total: 588ms remaining: 2.56s
28: learn: 3685.2075890 test: 3704.3433285 best: 3704.3433285 (28) total: 607ms remaining: 2.53s
29: learn: 3622.3034880 test: 3640.9121686 best: 3640.9121686 (29) total: 626ms remaining: 2.5s
30: learn: 3559.6564361 test: 3577.8558949 best: 3577.8558949 (30) total: 645ms remaining: 2.48s
31: learn: 3499.7249593 test: 3517.5332156 best: 3517.5332156 (31) total: 670ms remaining: 2.47s
32: learn: 3442.8700516 test: 3460.0817163 best: 3460.0817163 (32) total: 691ms remaining: 2.45s
33: learn: 3388.6213215 test: 3405.6045989 best: 3405.6045989 (33) total: 709ms remaining: 2.42s
34: learn: 3335.7096775 test: 3352.4485017 best: 3352.4485017 (34) total: 727ms remaining: 2.39s
35: learn: 3284.3980431 test: 3300.5698711 best: 3300.5698711 (35) total: 746ms remaining: 2.36s
36: learn: 3235.9281569 test: 3251.6653804 best: 3251.6653804 (36) total: 767ms remaining: 2.34s
37: learn: 3188.5251192 test: 3203.7410680 best: 3203.7410680 (37) total: 787ms remaining: 2.32s
38: learn: 3144.6259028 test: 3159.3966397 best: 3159.3966397 (38) total: 807ms remaining: 2.3s
39: learn: 3101.8845173 test: 3116.2754209 best: 3116.2754209 (39) total: 825ms remaining: 2.27s
40: learn: 3060.3259711 test: 3074.4943973 best: 3074.4943973 (40) total: 851ms remaining: 2.26s
41: learn: 3020.5178291 test: 3034.0444887 best: 3034.0444887 (41) total: 873ms remaining: 2.25s
42: learn: 2981.0091780 test: 2994.3423422 best: 2994.3423422 (42) total: 894ms remaining: 2.22s
43: learn: 2944.9840523 test: 2958.0681584 best: 2958.0681584 (43) total: 914ms remaining: 2.2s
44: learn: 2910.3165168 test: 2922.8633410 best: 2922.8633410 (44) total: 934ms remaining: 2.18s
45: learn: 2877.1096677 test: 2889.3400059 best: 2889.3400059 (45) total: 955ms remaining: 2.16s
46: learn: 2844.7654938 test: 2856.4041688 best: 2856.4041688 (46) total: 977ms remaining: 2.14s
47: learn: 2814.2610814 test: 2825.6958647 best: 2825.6958647 (47) total: 1s remaining: 2.13s
48: learn: 2784.1806803 test: 2795.2307543 best: 2795.2307543 (48) total: 1.02s remaining: 2.1s
49: learn: 2755.8167392 test: 2766.3252916 best: 2766.3252916 (49) total: 1.04s remaining: 2.08s
50: learn: 2728.5109906 test: 2738.2808973 best: 2738.2808973 (50) total: 1.06s remaining: 2.07s
51: learn: 2701.5888246 test: 2710.5739504 best: 2710.5739504 (51) total: 1.08s remaining: 2.04s
52: learn: 2676.1602268 test: 2684.6501450 best: 2684.6501450 (52) total: 1.1s remaining: 2.02s
53: learn: 2652.3045335 test: 2660.4677005 best: 2660.4677005 (53) total: 1.12s remaining: 1.99s
54: learn: 2628.6017470 test: 2636.2490382 best: 2636.2490382 (54) total: 1.14s remaining: 1.97s
55: learn: 2605.4234704 test: 2612.7040568 best: 2612.7040568 (55) total: 1.16s remaining: 1.95s
56: learn: 2583.8259400 test: 2590.5656575 best: 2590.5656575 (56) total: 1.18s remaining: 1.92s
57: learn: 2563.4979655 test: 2569.8351364 best: 2569.8351364 (57) total: 1.2s remaining: 1.9s
58: learn: 2542.5942805 test: 2548.4675002 best: 2548.4675002 (58) total: 1.22s remaining: 1.88s
59: learn: 2523.7400174 test: 2529.2565109 best: 2529.2565109 (59) total: 1.24s remaining: 1.86s

60: learn: 2505.0883382 test: 2510.0436829 best: 2510.0436829 (60) total: 1.26s remaining: 1.84s
61: learn: 2487.4829189 test: 2491.8529042 best: 2491.8529042 (61) total: 1.28s remaining: 1.82s
62: learn: 2470.4466712 test: 2474.5158772 best: 2474.5158772 (62) total: 1.3s remaining: 1.8s
63: learn: 2452.8529161 test: 2456.7000494 best: 2456.7000494 (63) total: 1.32s remaining: 1.77s
64: learn: 2436.5056463 test: 2439.7297549 best: 2439.7297549 (64) total: 1.34s remaining: 1.75s
65: learn: 2420.6654368 test: 2423.6243881 best: 2423.6243881 (65) total: 1.36s remaining: 1.73s
66: learn: 2405.4621122 test: 2407.9770126 best: 2407.9770126 (66) total: 1.38s remaining: 1.71s
67: learn: 2391.7689768 test: 2394.0825554 best: 2394.0825554 (67) total: 1.4s remaining: 1.69s
68: learn: 2378.1564467 test: 2380.1297245 best: 2380.1297245 (68) total: 1.42s remaining: 1.66s
69: learn: 2365.1166421 test: 2366.8437997 best: 2366.8437997 (69) total: 1.44s remaining: 1.64s
70: learn: 2352.6189211 test: 2354.2443085 best: 2354.2443085 (70) total: 1.46s remaining: 1.62s
71: learn: 2340.4625228 test: 2341.7208520 best: 2341.7208520 (71) total: 1.48s remaining: 1.6s
72: learn: 2328.1238162 test: 2329.0786669 best: 2329.0786669 (72) total: 1.5s remaining: 1.58s
73: learn: 2316.7136561 test: 2317.2600871 best: 2317.2600871 (73) total: 1.52s remaining: 1.56s
74: learn: 2306.1469378 test: 2306.1865911 best: 2306.1865911 (74) total: 1.53s remaining: 1.53s
75: learn: 2293.8177233 test: 2293.5775495 best: 2293.5775495 (75) total: 1.56s remaining: 1.52s
76: learn: 2283.4031034 test: 2282.8789830 best: 2282.8789830 (76) total: 1.58s remaining: 1.5s
77: learn: 2271.7796606 test: 2270.9512073 best: 2270.9512073 (77) total: 1.6s remaining: 1.48s
78: learn: 2261.8377409 test: 2260.9061099 best: 2260.9061099 (78) total: 1.62s remaining: 1.45s
79: learn: 2252.7004030 test: 2251.4457155 best: 2251.4457155 (79) total: 1.64s remaining: 1.43s
80: learn: 2242.5342518 test: 2241.0906694 best: 2241.0906694 (80) total: 1.66s remaining: 1.41s
81: learn: 2233.1472430 test: 2231.4523214 best: 2231.4523214 (81) total: 1.68s remaining: 1.39s
82: learn: 2224.6801871 test: 2222.6908673 best: 2222.6908673 (82) total: 1.69s remaining: 1.37s
83: learn: 2216.5244089 test: 2214.5052073 best: 2214.5052073 (83) total: 1.71s remaining: 1.35s
84: learn: 2208.7511771 test: 2206.2616765 best: 2206.2616765 (84) total: 1.73s remaining: 1.32s
85: learn: 2201.2733130 test: 2198.5622437 best: 2198.5622437 (85) total: 1.75s remaining: 1.3s
86: learn: 2192.9967884 test: 2189.9288885 best: 2189.9288885 (86) total: 1.77s remaining: 1.28s
87: learn: 2186.1692975 test: 2182.8788292 best: 2182.8788292 (87) total: 1.79s remaining: 1.26s
88: learn: 2179.0727137 test: 2175.5246832 best: 2175.5246832 (88) total: 1.81s remaining: 1.24s
89: learn: 2172.0341075 test: 2168.1269403 best: 2168.1269403 (89) total: 1.83s remaining: 1.22s
90: learn: 2165.2626441 test: 2161.0522954 best: 2161.0522954 (90) total: 1.85s remaining: 1.2s
91: learn: 2158.1226004 test: 2153.7785428 best: 2153.7785428 (91) total: 1.87s remaining: 1.18s
92: learn: 2151.7326340 test: 2147.1171472 best: 2147.1171472 (92) total: 1.89s remaining: 1.16s
93: learn: 2145.7211822 test: 2140.8960989 best: 2140.8960989 (93) total: 1.91s remaining: 1.14s
94: learn: 2140.0193188 test: 2134.9217416 best: 2134.9217416 (94) total: 1.93s remaining: 1.12s
95: learn: 2134.4371195 test: 2129.2469831 best: 2129.2469831 (95) total: 1.96s remaining: 1.1s
96: learn: 2128.9199358 test: 2123.6843969 best: 2123.6843969 (96) total: 1.98s remaining: 1.08s
97: learn: 2123.5478691 test: 2118.2128706 best: 2118.2128706 (97) total: 2s remaining: 1.06s
98: learn: 2117.9709269 test: 2112.3468752 best: 2112.3468752 (98) total: 2.02s remaining: 1.04s
99: learn: 2111.4916766 test: 2105.7045013 best: 2105.7045013 (99) total: 2.04s remaining: 1.02s
100: learn: 2106.3654436 test: 2100.4660554 best: 2100.4660554 (100) total: 2.06s remaining: 999ms

101: learn: 2101.2387852 test: 2095.4150579 best: 2095.4150579 (101) total: 2.08s remaining: 978ms
102: learn: 2096.5548053 test: 2090.5023467 best: 2090.5023467 (102) total: 2.1s remaining: 956ms
103: learn: 2091.8949829 test: 2085.7348120 best: 2085.7348120 (103) total: 2.11s remaining: 935ms
104: learn: 2087.5460494 test: 2081.3761081 best: 2081.3761081 (104) total: 2.13s remaining: 914ms
105: learn: 2082.9121171 test: 2076.6608548 best: 2076.6608548 (105) total: 2.15s remaining: 894ms
106: learn: 2078.6059742 test: 2072.2756065 best: 2072.2756065 (106) total: 2.17s remaining: 873ms
107: learn: 2074.1697472 test: 2067.8482893 best: 2067.8482893 (107) total: 2.19s remaining: 851ms
108: learn: 2069.6266339 test: 2063.2506544 best: 2063.2506544 (108) total: 2.21s remaining: 831ms
109: learn: 2065.8452957 test: 2059.3955738 best: 2059.3955738 (109) total: 2.23s remaining: 809ms
110: learn: 2061.9757850 test: 2055.4523250 best: 2055.4523250 (110) total: 2.25s remaining: 789ms
111: learn: 2058.0373390 test: 2051.4312240 best: 2051.4312240 (111) total: 2.26s remaining: 768ms
112: learn: 2054.4211744 test: 2047.6382043 best: 2047.6382043 (112) total: 2.28s remaining: 748ms
113: learn: 2049.9712063 test: 2043.1332463 best: 2043.1332463 (113) total: 2.3s remaining: 727ms
114: learn: 2046.3604330 test: 2039.4038412 best: 2039.4038412 (114) total: 2.32s remaining: 706ms
115: learn: 2043.2824693 test: 2036.2024023 best: 2036.2024023 (115) total: 2.34s remaining: 687ms
116: learn: 2039.7687687 test: 2032.5850057 best: 2032.5850057 (116) total: 2.36s remaining: 667ms
117: learn: 2036.6911043 test: 2029.5123802 best: 2029.5123802 (117) total: 2.38s remaining: 646ms
118: learn: 2033.7821363 test: 2026.5111746 best: 2026.5111746 (118) total: 2.4s remaining: 625ms
119: learn: 2030.0653939 test: 2022.6157465 best: 2022.6157465 (119) total: 2.42s remaining: 605ms
120: learn: 2027.3030333 test: 2019.7632009 best: 2019.7632009 (120) total: 2.44s remaining: 585ms
121: learn: 2024.2074032 test: 2016.4224405 best: 2016.4224405 (121) total: 2.46s remaining: 564ms
122: learn: 2021.7626751 test: 2013.9030253 best: 2013.9030253 (122) total: 2.48s remaining: 544ms
123: learn: 2018.9537055 test: 2011.0147596 best: 2011.0147596 (123) total: 2.5s remaining: 523ms
124: learn: 2016.2531238 test: 2008.1946019 best: 2008.1946019 (124) total: 2.51s remaining: 503ms
125: learn: 2013.0741776 test: 2005.0267781 best: 2005.0267781 (125) total: 2.53s remaining: 482ms
126: learn: 2010.5339996 test: 2002.6153672 best: 2002.6153672 (126) total: 2.55s remaining: 463ms
127: learn: 2007.9991434 test: 2000.0662558 best: 2000.0662558 (127) total: 2.57s remaining: 442ms
128: learn: 2005.8255363 test: 1997.7875877 best: 1997.7875877 (128) total: 2.59s remaining: 421ms
129: learn: 2002.2695217 test: 1994.2288560 best: 1994.2288560 (129) total: 2.61s remaining: 401ms
130: learn: 1999.9145024 test: 1992.0904036 best: 1992.0904036 (130) total: 2.62s remaining: 381ms
131: learn: 1997.4205099 test: 1989.6664872 best: 1989.6664872 (131) total: 2.64s remaining: 361ms
132: learn: 1994.9024191 test: 1987.0597372 best: 1987.0597372 (132) total: 2.66s remaining: 340ms
133: learn: 1992.4882742 test: 1984.4819435 best: 1984.4819435 (133) total: 2.68s remaining: 320ms
134: learn: 1990.5325243 test: 1982.5480477 best: 1982.5480477 (134) total: 2.7s remaining: 300ms
135: learn: 1988.2043387 test: 1980.2460059 best: 1980.2460059 (135) total: 2.72s remaining: 280ms
136: learn: 1984.7175628 test: 1976.6016167 best: 1976.6016167 (136) total: 2.74s remaining: 260ms
137: learn: 1982.2238376 test: 1973.9888742 best: 1973.9888742 (137) total: 2.76s remaining: 240ms
138: learn: 1979.7676482 test: 1971.5730498 best: 1971.5730498 (138) total: 2.78s remaining: 220ms
139: learn: 1977.6248665 test: 1969.3484804 best: 1969.3484804 (139) total: 2.79s remaining: 200ms
140: learn: 1975.3359356 test: 1967.1327462 best: 1967.1327462 (140) total: 2.81s remaining: 180ms
141: learn: 1973.0795590 test: 1964.9601166 best: 1964.9601166 (141) total: 2.83s remaining: 159ms

142: learn: 1971.0032642 test: 1962.8518560 best: 1962.8518560 (142) total: 2.85s remaining: 139ms
143: learn: 1968.9789626 test: 1960.9446941 best: 1960.9446941 (143) total: 2.87s remaining: 119ms
144: learn: 1967.3758195 test: 1959.4108300 best: 1959.4108300 (144) total: 2.88s remaining: 99.4ms
145: learn: 1965.2867850 test: 1957.2115698 best: 1957.2115698 (145) total: 2.9s remaining: 79.5ms
146: learn: 1962.4287478 test: 1954.6174263 best: 1954.6174263 (146) total: 2.92s remaining: 59.7ms
147: learn: 1960.5549496 test: 1952.7519150 best: 1952.7519150 (147) total: 2.95s remaining: 39.8ms
148: learn: 1958.6098462 test: 1950.7986884 best: 1950.7986884 (148) total: 2.97s remaining: 19.9ms
149: learn: 1956.5993166 test: 1948.7926065 best: 1948.7926065 (149) total: 2.99s remaining: 0us

bestTest = 1948.792606

bestIteration = 149

58: loss: 1948.7926065 best: 1741.3311752 (57) total: 2m 15s remaining: 1m 24s
0: learn: 6393.7262274 test: 6420.1355741 best: 6420.1355741 (0) total: 29.4ms remaining: 4.39s
1: learn: 5880.9230666 test: 5906.8207188 best: 5906.8207188 (1) total: 57.8ms remaining: 4.28s
2: learn: 5412.3280604 test: 5438.0275989 best: 5438.0275989 (2) total: 80.8ms remaining: 3.96s
3: learn: 5002.3051963 test: 5027.2431165 best: 5027.2431165 (3) total: 105ms remaining: 3.81s
4: learn: 4639.6374677 test: 4663.4820865 best: 4663.4820865 (4) total: 134ms remaining: 3.88s
5: learn: 4317.9417527 test: 4341.1882793 best: 4341.1882793 (5) total: 156ms remaining: 3.74s
6: learn: 4028.9003352 test: 4050.6430203 best: 4050.6430203 (6) total: 176ms remaining: 3.59s
7: learn: 3773.7986639 test: 3794.4229573 best: 3794.4229573 (7) total: 196ms remaining: 3.47s
8: learn: 3552.4925462 test: 3571.1447999 best: 3571.1447999 (8) total: 217ms remaining: 3.39s
9: learn: 3358.1689284 test: 3376.3065000 best: 3376.3065000 (9) total: 238ms remaining: 3.34s
10: learn: 3189.9499437 test: 3206.2155125 best: 3206.2155125 (10) total: 259ms remaining: 3.27s
11: learn: 3042.1066679 test: 3056.7233749 best: 3056.7233749 (11) total: 279ms remaining: 3.21s
12: learn: 2919.3276731 test: 2932.6945427 best: 2932.6945427 (12) total: 300ms remaining: 3.16s
13: learn: 2803.3588267 test: 2815.6675984 best: 2815.6675984 (13) total: 326ms remaining: 3.16s
14: learn: 2706.0026571 test: 2716.1810153 best: 2716.1810153 (14) total: 346ms remaining: 3.11s
15: learn: 2620.5980122 test: 2628.9505141 best: 2628.9505141 (15) total: 367ms remaining: 3.07s
16: learn: 2545.4301624 test: 2552.6332764 best: 2552.6332764 (16) total: 386ms remaining: 3.02s
17: learn: 2481.8749339 test: 2487.3359257 best: 2487.3359257 (17) total: 406ms remaining: 2.98s
18: learn: 2427.0022851 test: 2431.6111279 best: 2431.6111279 (18) total: 427ms remaining: 2.94s
19: learn: 2379.0624295 test: 2381.9374396 best: 2381.9374396 (19) total: 446ms remaining: 2.9s
20: learn: 2335.9635544 test: 2337.9281556 best: 2337.9281556 (20) total: 466ms remaining: 2.86s
21: learn: 2296.8310970 test: 2297.6411607 best: 2297.6411607 (21) total: 485ms remaining: 2.82s
22: learn: 2262.2383156 test: 2261.4204410 best: 2261.4204410 (22) total: 503ms remaining: 2.78s
23: learn: 2231.6789623 test: 2230.1990894 best: 2230.1990894 (23) total: 522ms remaining: 2.74s
24: learn: 2206.0715205 test: 2203.6457782 best: 2203.6457782 (24) total: 542ms remaining: 2.71s
25: learn: 2182.0874549 test: 2179.2346148 best: 2179.2346148 (25) total: 562ms remaining: 2.68s
26: learn: 2161.4874711 test: 2157.5570956 best: 2157.5570956 (26) total: 581ms remaining: 2.65s
27: learn: 2142.5011863 test: 2138.3647254 best: 2138.3647254 (27) total: 600ms remaining: 2.61s
28: learn: 2112.0086174 test: 2114.7425156 best: 2114.7425156 (28) total: 607ms remaining: 2.60s

28: learn: 2119.0936174 test: 2114.7435156 best: 2114.7435156 (28) total: 627ms remaining: 2.62s
29: learn: 2103.7564879 test: 2099.1320134 best: 2099.1320134 (29) total: 646ms remaining: 2.58s
30: learn: 2088.2221222 test: 2082.8395398 best: 2082.8395398 (30) total: 665ms remaining: 2.55s
31: learn: 2071.1221999 test: 2064.8847289 best: 2064.8847289 (31) total: 684ms remaining: 2.52s
32: learn: 2059.7564558 test: 2053.8266875 best: 2053.8266875 (32) total: 702ms remaining: 2.49s
33: learn: 2047.3483826 test: 2041.0306674 best: 2041.0306674 (33) total: 721ms remaining: 2.46s
34: learn: 2032.8927972 test: 2026.1191742 best: 2026.1191742 (34) total: 740ms remaining: 2.43s
35: learn: 2023.3102948 test: 2016.7359988 best: 2016.7359988 (35) total: 760ms remaining: 2.4s
36: learn: 2014.6112181 test: 2008.0106254 best: 2008.0106254 (36) total: 778ms remaining: 2.38s
37: learn: 2006.3324523 test: 1999.3897806 best: 1999.3897806 (37) total: 796ms remaining: 2.35s
38: learn: 1998.8082165 test: 1991.8804474 best: 1991.8804474 (38) total: 820ms remaining: 2.33s
39: learn: 1987.0427919 test: 1979.8395538 best: 1979.8395538 (39) total: 841ms remaining: 2.31s
40: learn: 1980.6866184 test: 1973.4798074 best: 1973.4798074 (40) total: 859ms remaining: 2.28s
41: learn: 1972.1507309 test: 1964.7700965 best: 1964.7700965 (41) total: 884ms remaining: 2.27s
42: learn: 1965.2465764 test: 1957.9825251 best: 1957.9825251 (42) total: 907ms remaining: 2.26s
43: learn: 1959.7732882 test: 1952.7802531 best: 1952.7802531 (43) total: 928ms remaining: 2.24s
44: learn: 1954.8454991 test: 1947.6273768 best: 1947.6273768 (44) total: 949ms remaining: 2.21s
45: learn: 1949.6436831 test: 1942.4171343 best: 1942.4171343 (45) total: 970ms remaining: 2.19s
46: learn: 1943.6934501 test: 1936.1970752 best: 1936.1970752 (46) total: 988ms remaining: 2.17s
47: learn: 1937.5819863 test: 1930.2675478 best: 1930.2675478 (47) total: 1.01s remaining: 2.14s
48: learn: 1933.0955236 test: 1926.2910473 best: 1926.2910473 (48) total: 1.03s remaining: 2.12s
49: learn: 1928.2115771 test: 1921.4164300 best: 1921.4164300 (49) total: 1.05s remaining: 2.1s
50: learn: 1923.9624942 test: 1917.2119216 best: 1917.2119216 (50) total: 1.07s remaining: 2.08s
51: learn: 1920.6136466 test: 1914.1225280 best: 1914.1225280 (51) total: 1.09s remaining: 2.05s
52: learn: 1915.7774706 test: 1909.2147311 best: 1909.2147311 (52) total: 1.11s remaining: 2.03s
53: learn: 1910.9444325 test: 1904.6085596 best: 1904.6085596 (53) total: 1.13s remaining: 2s
54: learn: 1907.8779678 test: 1901.6331862 best: 1901.6331862 (54) total: 1.15s remaining: 1.98s
55: learn: 1902.8501268 test: 1896.8571236 best: 1896.8571236 (55) total: 1.16s remaining: 1.95s
56: learn: 1898.4232671 test: 1892.5166952 best: 1892.5166952 (56) total: 1.18s remaining: 1.93s
57: learn: 1892.7070345 test: 1886.3525489 best: 1886.3525489 (57) total: 1.2s remaining: 1.91s
58: learn: 1890.0205447 test: 1884.3335544 best: 1884.3335544 (58) total: 1.23s remaining: 1.89s
59: learn: 1886.6783395 test: 1881.1894121 best: 1881.1894121 (59) total: 1.25s remaining: 1.87s
60: learn: 1883.3209026 test: 1878.0855479 best: 1878.0855479 (60) total: 1.26s remaining: 1.84s
61: learn: 1880.5439943 test: 1875.1229480 best: 1875.1229480 (61) total: 1.28s remaining: 1.82s
62: learn: 1877.3431082 test: 1872.0936603 best: 1872.0936603 (62) total: 1.3s remaining: 1.8s
63: learn: 1873.6799636 test: 1868.6094781 best: 1868.6094781 (63) total: 1.32s remaining: 1.78s
64: learn: 1871.5092935 test: 1866.5890275 best: 1866.5890275 (64) total: 1.34s remaining: 1.75s
65: learn: 1865.9938135 test: 1861.8532033 best: 1861.8532033 (65) total: 1.36s remaining: 1.73s
66: learn: 1863.5493258 test: 1859.2763902 best: 1859.2763902 (66) total: 1.38s remaining: 1.71s
67: learn: 1861.1493144 test: 1856.9339443 best: 1856.9339443 (67) total: 1.39s remaining: 1.68s
68: learn: 1858.9840540 test: 1854.7803805 best: 1854.7803805 (68) total: 1.42s remaining: 1.66s
69: learn: 1855.7586340 test: 1851.5430907 best: 1851.5430907 (69) total: 1.44s remaining: 1.64s

70: learn: 1853.4494835 test: 1849.2283918 best: 1849.2283918 (70) total: 1.45s remaining: 1.62s
71: learn: 1850.5202155 test: 1846.4107141 best: 1846.4107141 (71) total: 1.47s remaining: 1.59s
72: learn: 1848.2689776 test: 1844.3168103 best: 1844.3168103 (72) total: 1.49s remaining: 1.57s
73: learn: 1846.3085211 test: 1842.4809609 best: 1842.4809609 (73) total: 1.51s remaining: 1.55s
74: learn: 1844.1037295 test: 1840.4762663 best: 1840.4762663 (74) total: 1.53s remaining: 1.53s
75: learn: 1840.4417864 test: 1836.7935103 best: 1836.7935103 (75) total: 1.54s remaining: 1.5s
76: learn: 1838.1674684 test: 1834.9048900 best: 1834.9048900 (76) total: 1.56s remaining: 1.48s
77: learn: 1834.1133136 test: 1831.1768787 best: 1831.1768787 (77) total: 1.58s remaining: 1.46s
78: learn: 1832.3039506 test: 1829.6962902 best: 1829.6962902 (78) total: 1.6s remaining: 1.44s
79: learn: 1830.1239565 test: 1827.9577656 best: 1827.9577656 (79) total: 1.63s remaining: 1.42s
80: learn: 1828.4843484 test: 1826.3913159 best: 1826.3913159 (80) total: 1.64s remaining: 1.4s
81: learn: 1827.0603570 test: 1824.9176065 best: 1824.9176065 (81) total: 1.66s remaining: 1.38s
82: learn: 1824.9189604 test: 1822.8014545 best: 1822.8014545 (82) total: 1.68s remaining: 1.36s
83: learn: 1823.0917414 test: 1820.9316533 best: 1820.9316533 (83) total: 1.7s remaining: 1.33s
84: learn: 1821.0966387 test: 1818.8654786 best: 1818.8654786 (84) total: 1.72s remaining: 1.31s
85: learn: 1819.4414575 test: 1817.0148633 best: 1817.0148633 (85) total: 1.74s remaining: 1.29s
86: learn: 1817.2759711 test: 1814.8453602 best: 1814.8453602 (86) total: 1.75s remaining: 1.27s
87: learn: 1815.6227273 test: 1813.2898825 best: 1813.2898825 (87) total: 1.77s remaining: 1.25s
88: learn: 1814.3963780 test: 1812.1949028 best: 1812.1949028 (88) total: 1.79s remaining: 1.23s
89: learn: 1811.8167982 test: 1809.8969404 best: 1809.8969404 (89) total: 1.81s remaining: 1.21s
90: learn: 1809.9215070 test: 1808.0984868 best: 1808.0984868 (90) total: 1.83s remaining: 1.19s
91: learn: 1807.5305881 test: 1805.7116067 best: 1805.7116067 (91) total: 1.85s remaining: 1.17s
92: learn: 1805.6602074 test: 1803.8474251 best: 1803.8474251 (92) total: 1.87s remaining: 1.15s
93: learn: 1804.3309003 test: 1803.0186817 best: 1803.0186817 (93) total: 1.89s remaining: 1.12s
94: learn: 1803.1395730 test: 1801.8102662 best: 1801.8102662 (94) total: 1.91s remaining: 1.1s
95: learn: 1801.7253587 test: 1800.6246784 best: 1800.6246784 (95) total: 1.93s remaining: 1.08s
96: learn: 1800.4850196 test: 1799.1252870 best: 1799.1252870 (96) total: 1.94s remaining: 1.06s
97: learn: 1799.1637533 test: 1797.9913459 best: 1797.9913459 (97) total: 1.96s remaining: 1.04s
98: learn: 1797.6796266 test: 1796.6177439 best: 1796.6177439 (98) total: 1.98s remaining: 1.02s
99: learn: 1796.4292703 test: 1795.6017889 best: 1795.6017889 (99) total: 2s remaining: 1000ms
100: learn: 1795.5242215 test: 1794.7059680 best: 1794.7059680 (100) total: 2.02s remaining: 979ms
101: learn: 1794.5732405 test: 1793.8696122 best: 1793.8696122 (101) total: 2.04s remaining: 959ms
102: learn: 1793.5827361 test: 1792.8859518 best: 1792.8859518 (102) total: 2.06s remaining: 940ms
103: learn: 1791.8013901 test: 1791.1191899 best: 1791.1191899 (103) total: 2.08s remaining: 920ms
104: learn: 1789.3868372 test: 1789.0570368 best: 1789.0570368 (104) total: 2.1s remaining: 900ms
105: learn: 1787.7898306 test: 1787.6891734 best: 1787.6891734 (105) total: 2.12s remaining: 881ms
106: learn: 1786.0947395 test: 1786.2344583 best: 1786.2344583 (106) total: 2.14s remaining: 861ms
107: learn: 1785.0798008 test: 1785.7027753 best: 1785.7027753 (107) total: 2.16s remaining: 840ms
108: learn: 1783.3407949 test: 1784.1739390 best: 1784.1739390 (108) total: 2.18s remaining: 820ms
109: learn: 1781.8924180 test: 1782.9513746 best: 1782.9513746 (109) total: 2.2s remaining: 800ms
110: learn: 1780.9274812 test: 1782.1767363 best: 1782.1767363 (110) total: 2.22s remaining: 780ms

111: learn: 1779.5289400 test: 1781.4097862 best: 1781.4097862 (111) total: 2.24s remaining: 759ms
112: learn: 1778.2313119 test: 1780.3999775 best: 1780.3999775 (112) total: 2.25s remaining: 738ms
113: learn: 1776.6128744 test: 1779.2178877 best: 1779.2178877 (113) total: 2.28s remaining: 719ms
114: learn: 1775.3439279 test: 1778.0591675 best: 1778.0591675 (114) total: 2.29s remaining: 698ms
115: learn: 1774.0626939 test: 1777.2001739 best: 1777.2001739 (115) total: 2.32s remaining: 679ms
116: learn: 1773.2447209 test: 1776.3164479 best: 1776.3164479 (116) total: 2.33s remaining: 658ms
117: learn: 1771.1069977 test: 1774.7764700 best: 1774.7764700 (117) total: 2.35s remaining: 638ms
118: learn: 1769.7903958 test: 1773.4947704 best: 1773.4947704 (118) total: 2.37s remaining: 618ms
119: learn: 1769.0534649 test: 1772.7649847 best: 1772.7649847 (119) total: 2.39s remaining: 597ms
120: learn: 1767.7922431 test: 1771.7152661 best: 1771.7152661 (120) total: 2.41s remaining: 578ms
121: learn: 1766.7445790 test: 1770.6477884 best: 1770.6477884 (121) total: 2.43s remaining: 558ms
122: learn: 1765.8192776 test: 1769.7510901 best: 1769.7510901 (122) total: 2.45s remaining: 538ms
123: learn: 1764.7909326 test: 1768.5912991 best: 1768.5912991 (123) total: 2.47s remaining: 517ms
124: learn: 1764.0033979 test: 1768.2038202 best: 1768.2038202 (124) total: 2.48s remaining: 497ms
125: learn: 1762.8915016 test: 1767.0984222 best: 1767.0984222 (125) total: 2.51s remaining: 478ms
126: learn: 1761.5864839 test: 1766.6533038 best: 1766.6533038 (126) total: 2.53s remaining: 458ms
127: learn: 1760.5795851 test: 1765.7760805 best: 1765.7760805 (127) total: 2.55s remaining: 438ms
128: learn: 1759.5220975 test: 1765.1159306 best: 1765.1159306 (128) total: 2.56s remaining: 418ms
129: learn: 1758.4239601 test: 1764.0277075 best: 1764.0277075 (129) total: 2.58s remaining: 398ms
130: learn: 1757.1279396 test: 1763.0774822 best: 1763.0774822 (130) total: 2.6s remaining: 378ms
131: learn: 1755.6544552 test: 1761.9238800 best: 1761.9238800 (131) total: 2.63s remaining: 358ms
132: learn: 1753.5318378 test: 1759.6894444 best: 1759.6894444 (132) total: 2.65s remaining: 338ms
133: learn: 1752.6917337 test: 1759.0609202 best: 1759.0609202 (133) total: 2.67s remaining: 318ms
134: learn: 1751.4231320 test: 1757.8252692 best: 1757.8252692 (134) total: 2.68s remaining: 298ms
135: learn: 1749.9191333 test: 1756.3631475 best: 1756.3631475 (135) total: 2.71s remaining: 279ms
136: learn: 1748.5564914 test: 1755.0664690 best: 1755.0664690 (136) total: 2.73s remaining: 259ms
137: learn: 1747.2191579 test: 1754.0622191 best: 1754.0622191 (137) total: 2.75s remaining: 239ms
138: learn: 1746.3220073 test: 1753.4458752 best: 1753.4458752 (138) total: 2.76s remaining: 219ms
139: learn: 1745.1601774 test: 1752.5880563 best: 1752.5880563 (139) total: 2.78s remaining: 199ms
140: learn: 1744.3592176 test: 1751.9108369 best: 1751.9108369 (140) total: 2.8s remaining: 179ms
141: learn: 1742.5614418 test: 1750.8864201 best: 1750.8864201 (141) total: 2.83s remaining: 159ms
142: learn: 1741.7038205 test: 1750.0774394 best: 1750.0774394 (142) total: 2.85s remaining: 140ms
143: learn: 1741.1182015 test: 1749.8361049 best: 1749.8361049 (143) total: 2.88s remaining: 120ms
144: learn: 1740.0468614 test: 1748.9561939 best: 1748.9561939 (144) total: 2.91s remaining: 100ms
145: learn: 1739.1110101 test: 1748.1268715 best: 1748.1268715 (145) total: 2.94s remaining: 80.5ms
146: learn: 1737.8146132 test: 1746.6691055 best: 1746.6691055 (146) total: 2.96s remaining: 60.5ms
147: learn: 1736.4889394 test: 1745.0297378 best: 1745.0297378 (147) total: 2.99s remaining: 40.5ms
148: learn: 1735.2356054 test: 1743.9869385 best: 1743.9869385 (148) total: 3.02s remaining: 20.3ms
149: learn: 1734.0109003 test: 1742.9814722 best: 1742.9814722 (149) total: 3.05s remaining: 0us

bestTest = 1742.981472

bestIteration = 149

59: loss: 1742.9814722 best: 1741.3311752 (57) total: 2m 18s remaining: 1m 22s
0: learn: 6804.6080501 test: 6832.1976802 best: 6832.1976802 (0) total: 28.9ms remaining: 4.31s
1: learn: 6636.0428512 test: 6663.4411127 best: 6663.4411127 (1) total: 56.1ms remaining: 4.15s
2: learn: 6472.0632959 test: 6499.5936465 best: 6499.5936465 (2) total: 77.7ms remaining: 3.81s
3: learn: 6311.2260428 test: 6338.3522485 best: 6338.3522485 (3) total: 99ms remaining: 3.61s
4: learn: 6157.7372635 test: 6184.6283716 best: 6184.6283716 (4) total: 122ms remaining: 3.54s
5: learn: 6008.1214828 test: 6034.9934028 best: 6034.9934028 (5) total: 146ms remaining: 3.5s
6: learn: 5863.2348043 test: 5890.0746625 best: 5890.0746625 (6) total: 169ms remaining: 3.45s
7: learn: 5723.3732335 test: 5749.9728294 best: 5749.9728294 (7) total: 191ms remaining: 3.39s
8: learn: 5588.3273320 test: 5614.3278075 best: 5614.3278075 (8) total: 212ms remaining: 3.33s
9: learn: 5457.9729354 test: 5483.8103633 best: 5483.8103633 (9) total: 236ms remaining: 3.3s
10: learn: 5332.3827177 test: 5358.0259098 best: 5358.0259098 (10) total: 259ms remaining: 3.27s
11: learn: 5209.9613265 test: 5235.1004312 best: 5235.1004312 (11) total: 280ms remaining: 3.21s
12: learn: 5092.8784342 test: 5117.8637199 best: 5117.8637199 (12) total: 299ms remaining: 3.15s
13: learn: 4977.6599776 test: 5002.3383465 best: 5002.3383465 (13) total: 320ms remaining: 3.11s
14: learn: 4867.8526948 test: 4891.9708198 best: 4891.9708198 (14) total: 342ms remaining: 3.08s
15: learn: 4763.1886178 test: 4786.7018208 best: 4786.7018208 (15) total: 362ms remaining: 3.03s
16: learn: 4660.9820750 test: 4684.2802590 best: 4684.2802590 (16) total: 381ms remaining: 2.98s
17: learn: 4565.7364249 test: 4589.1042128 best: 4589.1042128 (17) total: 401ms remaining: 2.94s
18: learn: 4469.2009829 test: 4492.4314920 best: 4492.4314920 (18) total: 422ms remaining: 2.91s
19: learn: 4376.0631283 test: 4398.8940431 best: 4398.8940431 (19) total: 447ms remaining: 2.91s
20: learn: 4288.5037759 test: 4311.1212211 best: 4311.1212211 (20) total: 466ms remaining: 2.86s
21: learn: 4204.0795671 test: 4226.0674117 best: 4226.0674117 (21) total: 487ms remaining: 2.83s
22: learn: 4121.1583750 test: 4142.7462378 best: 4142.7462378 (22) total: 506ms remaining: 2.79s
23: learn: 4043.1169940 test: 4064.0699258 best: 4064.0699258 (23) total: 535ms remaining: 2.81s
24: learn: 3966.2016057 test: 3986.8113700 best: 3986.8113700 (24) total: 555ms remaining: 2.77s
25: learn: 3893.9514632 test: 3914.2432582 best: 3914.2432582 (25) total: 575ms remaining: 2.74s
26: learn: 3821.8122432 test: 3841.5772852 best: 3841.5772852 (26) total: 595ms remaining: 2.71s
27: learn: 3751.5070545 test: 3770.8668322 best: 3770.8668322 (27) total: 614ms remaining: 2.68s
28: learn: 3685.6489950 test: 3704.7787714 best: 3704.7787714 (28) total: 635ms remaining: 2.65s
29: learn: 3622.7523746 test: 3641.3567259 best: 3641.3567259 (29) total: 657ms remaining: 2.63s
30: learn: 3560.0998765 test: 3578.2947428 best: 3578.2947428 (30) total: 676ms remaining: 2.59s
31: learn: 3500.1653882 test: 3517.9689595 best: 3517.9689595 (31) total: 695ms remaining: 2.56s
32: learn: 3443.3049908 test: 3460.5120467 best: 3460.5120467 (32) total: 715ms remaining: 2.53s
33: learn: 3389.0591184 test: 3406.0377244 best: 3406.0377244 (33) total: 737ms remaining: 2.51s
34: learn: 3336.1389048 test: 3352.8731342 best: 3352.8731342 (34) total: 757ms remaining: 2.48s
35: learn: 3284.8236104 test: 3300.9904154 best: 3300.9904154 (35) total: 776ms remaining: 2.46s
36: learn: 3236.8987928 test: 3252.5594314 best: 3252.5594314 (36) total: 798ms remaining: 2.44s
37: learn: 3189.4130577 test: 3204.5540723 best: 3204.5540723 (37) total: 818ms remaining: 2.41s
38: learn: 3145.5130452 test: 3160.2005660 best: 3160.2005660 (38) total: 839ms remaining: 2.39s

36: learn: 3145.5150452 test: 3160.2005660 best: 3160.2005660 (38) total: 859ms remaining: 2.39s
39: learn: 3102.7754907 test: 3117.0853312 best: 3117.0853312 (39) total: 859ms remaining: 2.36s
40: learn: 3061.2311612 test: 3075.3213264 best: 3075.3213264 (40) total: 879ms remaining: 2.34s
41: learn: 3021.6634841 test: 3035.1657006 best: 3035.1657006 (41) total: 903ms remaining: 2.32s
42: learn: 2982.1736001 test: 2995.4800976 best: 2995.4800976 (42) total: 930ms remaining: 2.31s
43: learn: 2946.1698964 test: 2959.2263658 best: 2959.2263658 (43) total: 953ms remaining: 2.3s
44: learn: 2911.4774919 test: 2924.1272674 best: 2924.1272674 (44) total: 977ms remaining: 2.28s
45: learn: 2878.3837294 test: 2890.7066905 best: 2890.7066905 (45) total: 997ms remaining: 2.25s
46: learn: 2845.9149705 test: 2857.6470151 best: 2857.6470151 (46) total: 1.02s remaining: 2.23s
47: learn: 2815.4316509 test: 2827.0430345 best: 2827.0430345 (47) total: 1.04s remaining: 2.21s
48: learn: 2785.3279138 test: 2796.3323641 best: 2796.3323641 (48) total: 1.06s remaining: 2.19s
49: learn: 2756.9146655 test: 2767.3765306 best: 2767.3765306 (49) total: 1.08s remaining: 2.16s
50: learn: 2729.5664122 test: 2739.2844389 best: 2739.2844389 (50) total: 1.1s remaining: 2.14s
51: learn: 2702.6171577 test: 2711.5502504 best: 2711.5502504 (51) total: 1.12s remaining: 2.11s
52: learn: 2677.1508065 test: 2685.5852713 best: 2685.5852713 (52) total: 1.15s remaining: 2.1s
53: learn: 2653.2635674 test: 2661.3675848 best: 2661.3675848 (53) total: 1.17s remaining: 2.07s
54: learn: 2629.5268662 test: 2637.1137608 best: 2637.1137608 (54) total: 1.19s remaining: 2.05s
55: learn: 2607.0843580 test: 2614.1097088 best: 2614.1097088 (55) total: 1.21s remaining: 2.02s
56: learn: 2585.3744165 test: 2591.8505609 best: 2591.8505609 (56) total: 1.22s remaining: 2s
57: learn: 2564.1797714 test: 2570.3458135 best: 2570.3458135 (57) total: 1.24s remaining: 1.97s
58: learn: 2543.4102447 test: 2549.1066736 best: 2549.1066736 (58) total: 1.26s remaining: 1.95s
59: learn: 2523.7579369 test: 2529.1025303 best: 2529.1025303 (59) total: 1.28s remaining: 1.92s
60: learn: 2505.2204944 test: 2510.1616192 best: 2510.1616192 (60) total: 1.31s remaining: 1.91s
61: learn: 2487.6475469 test: 2492.0010773 best: 2492.0010773 (61) total: 1.33s remaining: 1.89s
62: learn: 2470.7788006 test: 2474.8256777 best: 2474.8256777 (62) total: 1.35s remaining: 1.87s
63: learn: 2453.6650296 test: 2457.3285099 best: 2457.3285099 (63) total: 1.38s remaining: 1.85s
64: learn: 2437.7376997 test: 2440.7603836 best: 2440.7603836 (64) total: 1.41s remaining: 1.84s
65: learn: 2422.1071328 test: 2424.8582252 best: 2424.8582252 (65) total: 1.43s remaining: 1.82s
66: learn: 2407.0163330 test: 2409.3196199 best: 2409.3196199 (66) total: 1.45s remaining: 1.8s
67: learn: 2392.8108159 test: 2394.6872692 best: 2394.6872692 (67) total: 1.48s remaining: 1.78s
68: learn: 2379.2550806 test: 2380.5541750 best: 2380.5541750 (68) total: 1.5s remaining: 1.76s
69: learn: 2366.3097671 test: 2367.3579582 best: 2367.3579582 (69) total: 1.52s remaining: 1.74s
70: learn: 2353.8284408 test: 2354.3804192 best: 2354.3804192 (70) total: 1.55s remaining: 1.72s
71: learn: 2341.8509670 test: 2342.1997472 best: 2342.1997472 (71) total: 1.57s remaining: 1.7s
72: learn: 2330.6370816 test: 2330.6373984 best: 2330.6373984 (72) total: 1.59s remaining: 1.68s
73: learn: 2319.2001886 test: 2318.7912129 best: 2318.7912129 (73) total: 1.61s remaining: 1.65s
74: learn: 2308.6423969 test: 2307.8826940 best: 2307.8826940 (74) total: 1.63s remaining: 1.63s
75: learn: 2295.8934599 test: 2294.8413750 best: 2294.8413750 (75) total: 1.65s remaining: 1.6s
76: learn: 2286.0804377 test: 2284.7314709 best: 2284.7314709 (76) total: 1.67s remaining: 1.58s
77: learn: 2276.4324717 test: 2274.7710917 best: 2274.7710917 (77) total: 1.69s remaining: 1.56s
78: learn: 2265.3860476 test: 2263.4753726 best: 2263.4753726 (78) total: 1.71s remaining: 1.53s
79: learn: 2256.0753774 test: 2253.9537630 best: 2253.9537630 (79) total: 1.73s remaining: 1.52s

80: learn: 2247.8299707 test: 2245.6205009 best: 2245.6205009 (80) total: 1.75s remaining: 1.49s
81: learn: 2239.1448819 test: 2236.9296268 best: 2236.9296268 (81) total: 1.77s remaining: 1.47s
82: learn: 2230.6345966 test: 2228.1690083 best: 2228.1690083 (82) total: 1.79s remaining: 1.44s
83: learn: 2222.5007367 test: 2219.6157935 best: 2219.6157935 (83) total: 1.81s remaining: 1.42s
84: learn: 2214.6213696 test: 2211.3954333 best: 2211.3954333 (84) total: 1.83s remaining: 1.4s
85: learn: 2207.2223503 test: 2203.8155490 best: 2203.8155490 (85) total: 1.84s remaining: 1.37s
86: learn: 2198.8206304 test: 2195.0647456 best: 2195.0647456 (86) total: 1.86s remaining: 1.35s
87: learn: 2191.2276192 test: 2187.0901896 best: 2187.0901896 (87) total: 1.88s remaining: 1.33s
88: learn: 2184.0849795 test: 2179.7328101 best: 2179.7328101 (88) total: 1.9s remaining: 1.3s
89: learn: 2176.6533200 test: 2171.9680301 best: 2171.9680301 (89) total: 1.93s remaining: 1.29s
90: learn: 2168.8456792 test: 2163.9604116 best: 2163.9604116 (90) total: 1.95s remaining: 1.26s
91: learn: 2161.0432658 test: 2155.9806159 best: 2155.9806159 (91) total: 1.97s remaining: 1.24s
92: learn: 2154.4698465 test: 2149.1211587 best: 2149.1211587 (92) total: 1.99s remaining: 1.22s
93: learn: 2148.3528058 test: 2142.8056334 best: 2142.8056334 (93) total: 2.01s remaining: 1.2s
94: learn: 2142.5280800 test: 2136.8129895 best: 2136.8129895 (94) total: 2.03s remaining: 1.18s
95: learn: 2136.7483585 test: 2130.9737988 best: 2130.9737988 (95) total: 2.05s remaining: 1.15s
96: learn: 2131.1796384 test: 2125.2433831 best: 2125.2433831 (96) total: 2.07s remaining: 1.13s
97: learn: 2124.8635978 test: 2118.8261019 best: 2118.8261019 (97) total: 2.09s remaining: 1.11s
98: learn: 2119.3950042 test: 2113.1349203 best: 2113.1349203 (98) total: 2.11s remaining: 1.09s
99: learn: 2113.6150326 test: 2107.2365355 best: 2107.2365355 (99) total: 2.13s remaining: 1.06s
100: learn: 2108.3827527 test: 2102.0013829 best: 2102.0013829 (100) total: 2.15s remaining: 1.04s
101: learn: 2103.5631377 test: 2097.1150692 best: 2097.1150692 (101) total: 2.17s remaining: 1.02s
102: learn: 2098.9650651 test: 2092.5111841 best: 2092.5111841 (102) total: 2.19s remaining: 999ms
103: learn: 2094.3340668 test: 2087.7776747 best: 2087.7776747 (103) total: 2.21s remaining: 976ms
104: learn: 2090.0370069 test: 2083.4065767 best: 2083.4065767 (104) total: 2.23s remaining: 955ms
105: learn: 2085.4037788 test: 2078.5732202 best: 2078.5732202 (105) total: 2.25s remaining: 933ms
106: learn: 2081.2033785 test: 2074.3755646 best: 2074.3755646 (106) total: 2.27s remaining: 911ms
107: learn: 2076.3607818 test: 2069.5173940 best: 2069.5173940 (107) total: 2.29s remaining: 889ms
108: learn: 2072.2626277 test: 2065.2962238 best: 2065.2962238 (108) total: 2.3s remaining: 867ms
109: learn: 2067.9672485 test: 2060.7923595 best: 2060.7923595 (109) total: 2.32s remaining: 845ms
110: learn: 2064.1966334 test: 2056.9215274 best: 2056.9215274 (110) total: 2.34s remaining: 823ms
111: learn: 2060.3563752 test: 2052.8997003 best: 2052.8997003 (111) total: 2.36s remaining: 801ms
112: learn: 2057.1945356 test: 2049.7303014 best: 2049.7303014 (112) total: 2.38s remaining: 778ms
113: learn: 2053.1203075 test: 2045.3575316 best: 2045.3575316 (113) total: 2.4s remaining: 757ms
114: learn: 2049.2315356 test: 2041.1728580 best: 2041.1728580 (114) total: 2.42s remaining: 736ms
115: learn: 2045.4046426 test: 2037.1973245 best: 2037.1973245 (115) total: 2.44s remaining: 714ms
116: learn: 2042.1720971 test: 2033.8969476 best: 2033.8969476 (116) total: 2.46s remaining: 693ms
117: learn: 2039.1376158 test: 2030.7526387 best: 2030.7526387 (117) total: 2.47s remaining: 671ms
118: learn: 2035.9025454 test: 2027.4802668 best: 2027.4802668 (118) total: 2.49s remaining: 649ms
119: learn: 2032.7247193 test: 2024.2519050 best: 2024.2519050 (119) total: 2.51s remaining: 628ms
120: learn: 2029.5415966 test: 2021.0736886 best: 2021.0736886 (120) total: 2.53s remaining: 606ms

121: learn: 2026.5445294 test: 2017.7967066 best: 2017.7967066 (121) total: 2.55s remaining: 585ms
122: learn: 2023.9328153 test: 2015.1630327 best: 2015.1630327 (122) total: 2.56s remaining: 563ms
123: learn: 2021.1913921 test: 2012.4293608 best: 2012.4293608 (123) total: 2.58s remaining: 542ms
124: learn: 2018.2515454 test: 2009.3138832 best: 2009.3138832 (124) total: 2.6s remaining: 520ms
125: learn: 2015.8303028 test: 2006.7161613 best: 2006.7161613 (125) total: 2.62s remaining: 499ms
126: learn: 2013.0097040 test: 2003.8630747 best: 2003.8630747 (126) total: 2.64s remaining: 478ms
127: learn: 2010.7223953 test: 2001.5525360 best: 2001.5525360 (127) total: 2.66s remaining: 457ms
128: learn: 2007.7939274 test: 1998.5493329 best: 1998.5493329 (128) total: 2.67s remaining: 436ms
129: learn: 2004.2021805 test: 1994.9475013 best: 1994.9475013 (129) total: 2.69s remaining: 415ms
130: learn: 2001.7385617 test: 1992.5070979 best: 1992.5070979 (130) total: 2.71s remaining: 393ms
131: learn: 1999.4161133 test: 1990.1135382 best: 1990.1135382 (131) total: 2.73s remaining: 373ms
132: learn: 1997.2666786 test: 1987.9725924 best: 1987.9725924 (132) total: 2.75s remaining: 352ms
133: learn: 1995.0772690 test: 1985.5771967 best: 1985.5771967 (133) total: 2.77s remaining: 331ms
134: learn: 1992.7873670 test: 1983.1821195 best: 1983.1821195 (134) total: 2.79s remaining: 310ms
135: learn: 1990.6436517 test: 1980.9360530 best: 1980.9360530 (135) total: 2.81s remaining: 289ms
136: learn: 1988.3616191 test: 1978.7522053 best: 1978.7522053 (136) total: 2.83s remaining: 269ms
137: learn: 1986.0105080 test: 1976.4416438 best: 1976.4416438 (137) total: 2.85s remaining: 248ms
138: learn: 1983.3993173 test: 1973.8600771 best: 1973.8600771 (138) total: 2.87s remaining: 227ms
139: learn: 1981.1916739 test: 1971.7041632 best: 1971.7041632 (139) total: 2.88s remaining: 206ms
140: learn: 1979.2939002 test: 1969.8554126 best: 1969.8554126 (140) total: 2.9s remaining: 185ms
141: learn: 1977.1838167 test: 1967.8214694 best: 1967.8214694 (141) total: 2.93s remaining: 165ms
142: learn: 1975.4091593 test: 1966.0329327 best: 1966.0329327 (142) total: 2.94s remaining: 144ms
143: learn: 1973.4727432 test: 1964.1930567 best: 1964.1930567 (143) total: 2.96s remaining: 123ms
144: learn: 1971.8447231 test: 1962.6355477 best: 1962.6355477 (144) total: 2.98s remaining: 103ms
145: learn: 1969.6901934 test: 1960.3531120 best: 1960.3531120 (145) total: 3s remaining: 82.2ms
146: learn: 1967.4044326 test: 1957.9813427 best: 1957.9813427 (146) total: 3.02s remaining: 61.7ms
147: learn: 1965.5624640 test: 1956.1036155 best: 1956.1036155 (147) total: 3.04s remaining: 41.1ms
148: learn: 1963.6322065 test: 1954.0836501 best: 1954.0836501 (148) total: 3.06s remaining: 20.5ms
149: learn: 1961.5608608 test: 1952.1095357 best: 1952.1095357 (149) total: 3.08s remaining: 0us

bestTest = 1952.109536

bestIteration = 149

60: loss: 1952.1095357 best: 1741.3311752 (57) total: 2m 21s remaining: 1m 21s
0: learn: 6393.8225421 test: 6420.2298938 best: 6420.2298938 (0) total: 21.4ms remaining: 3.19s
1: learn: 5881.1831655 test: 5907.0693702 best: 5907.0693702 (1) total: 41.6ms remaining: 3.08s
2: learn: 5412.6591064 test: 5438.3435213 best: 5438.3435213 (2) total: 61.5ms remaining: 3.01s
3: learn: 5002.6411738 test: 5027.5652005 best: 5027.5652005 (3) total: 81.6ms remaining: 2.98s
4: learn: 4640.0067759 test: 4663.8408017 best: 4663.8408017 (4) total: 104ms remaining: 3s
5: learn: 4318.3491215 test: 4341.5871428 best: 4341.5871428 (5) total: 129ms remaining: 3.1s
6: learn: 4029.3068216 test: 4051.0414169 best: 4051.0414169 (6) total: 148ms remaining: 3.03s

7: learn: 3774.1934303 test: 3794.8095572 best: 3794.8095572 (7) total: 168ms remaining: 2.98s
8: learn: 3552.9051797 test: 3571.5509811 best: 3571.5509811 (8) total: 188ms remaining: 2.95s
9: learn: 3358.5803567 test: 3376.7132774 best: 3376.7132774 (9) total: 208ms remaining: 2.92s
10: learn: 3190.3488414 test: 3206.6111629 best: 3206.6111629 (10) total: 231ms remaining: 2.92s
11: learn: 3042.5212329 test: 3057.1254954 best: 3057.1254954 (11) total: 251ms remaining: 2.89s
12: learn: 2919.7677700 test: 2933.1154141 best: 2933.1154141 (12) total: 272ms remaining: 2.87s
13: learn: 2803.7664009 test: 2816.0565469 best: 2816.0565469 (13) total: 292ms remaining: 2.84s
14: learn: 2706.3946506 test: 2716.5520681 best: 2716.5520681 (14) total: 311ms remaining: 2.8s
15: learn: 2620.9700339 test: 2629.2997492 best: 2629.2997492 (15) total: 336ms remaining: 2.81s
16: learn: 2545.7838646 test: 2552.9608485 best: 2552.9608485 (16) total: 353ms remaining: 2.77s
17: learn: 2482.2271581 test: 2487.6538997 best: 2487.6538997 (17) total: 373ms remaining: 2.73s
18: learn: 2427.3466313 test: 2431.9212157 best: 2431.9212157 (18) total: 392ms remaining: 2.7s
19: learn: 2379.3996199 test: 2382.2381525 best: 2382.2381525 (19) total: 411ms remaining: 2.67s
20: learn: 2336.3113337 test: 2338.2414180 best: 2338.2414180 (20) total: 430ms remaining: 2.64s
21: learn: 2297.1890054 test: 2297.9601176 best: 2297.9601176 (21) total: 449ms remaining: 2.61s
22: learn: 2262.5905494 test: 2261.7294585 best: 2261.7294585 (22) total: 467ms remaining: 2.58s
23: learn: 2232.0282398 test: 2230.5018126 best: 2230.5018126 (23) total: 485ms remaining: 2.55s
24: learn: 2206.4098700 test: 2203.9330741 best: 2203.9330741 (24) total: 504ms remaining: 2.52s
25: learn: 2182.4274929 test: 2179.5208575 best: 2179.5208575 (25) total: 530ms remaining: 2.53s
26: learn: 2161.8236674 test: 2157.8396616 best: 2157.8396616 (26) total: 548ms remaining: 2.49s
27: learn: 2142.8479265 test: 2138.6166511 best: 2138.6166511 (27) total: 566ms remaining: 2.46s
28: learn: 2119.4298919 test: 2114.9854759 best: 2114.9854759 (28) total: 585ms remaining: 2.44s
29: learn: 2104.0927703 test: 2099.3700313 best: 2099.3700313 (29) total: 604ms remaining: 2.42s
30: learn: 2088.5649515 test: 2083.0761706 best: 2083.0761706 (30) total: 624ms remaining: 2.39s
31: learn: 2071.4523110 test: 2065.1089655 best: 2065.1089655 (31) total: 644ms remaining: 2.37s
32: learn: 2060.1011593 test: 2054.0624133 best: 2054.0624133 (32) total: 662ms remaining: 2.35s
33: learn: 2047.6883690 test: 2041.2558902 best: 2041.2558902 (33) total: 681ms remaining: 2.32s
34: learn: 2033.2271449 test: 2026.3397557 best: 2026.3397557 (34) total: 701ms remaining: 2.3s
35: learn: 2023.6729795 test: 2016.9513013 best: 2016.9513013 (35) total: 723ms remaining: 2.29s
36: learn: 2014.9886856 test: 2008.2236694 best: 2008.2236694 (36) total: 741ms remaining: 2.26s
37: learn: 2006.6349906 test: 1999.1772648 best: 1999.1772648 (37) total: 759ms remaining: 2.24s
38: learn: 1999.0640786 test: 1991.9640871 best: 1991.9640871 (38) total: 775ms remaining: 2.21s
39: learn: 1990.7718752 test: 1983.5678242 best: 1983.5678242 (39) total: 794ms remaining: 2.18s
40: learn: 1982.2946936 test: 1975.3494373 best: 1975.3494373 (40) total: 813ms remaining: 2.16s
41: learn: 1974.7300645 test: 1967.3922671 best: 1967.3922671 (41) total: 833ms remaining: 2.14s
42: learn: 1968.0436610 test: 1960.9194828 best: 1960.9194828 (42) total: 856ms remaining: 2.13s
43: learn: 1959.3476083 test: 1953.1875409 best: 1953.1875409 (43) total: 877ms remaining: 2.11s
44: learn: 1953.5777989 test: 1947.1776184 best: 1947.1776184 (44) total: 897ms remaining: 2.09s
45: learn: 1948.7011455 test: 1942.0915256 best: 1942.0915256 (45) total: 915ms remaining: 2.07s
46: learn: 1942.7635763 test: 1935.8850056 best: 1935.8850056 (46) total: 938ms remaining: 2.05s
47: learn: 1937.6074375 test: 1931.1769748 best: 1931.1769748 (47) total: 956ms remaining: 2.03s
48: learn: 1932.7580431 test: 1926.2170731 best: 1926.2170731 (48) total: 973ms remaining: 2.01s

48: learn: 1922.7300401 test: 1922.2177071 best: 1922.2177071 (48) total: 370ms remaining: 2.01s
49: learn: 1927.6267433 test: 1921.1908507 best: 1921.1908507 (49) total: 991ms remaining: 1.98s
50: learn: 1923.8221959 test: 1917.6461995 best: 1917.6461995 (50) total: 1.01s remaining: 1.97s
51: learn: 1918.6016978 test: 1912.3521331 best: 1912.3521331 (51) total: 1.03s remaining: 1.95s
52: learn: 1914.1337902 test: 1907.8577260 best: 1907.8577260 (52) total: 1.05s remaining: 1.93s
53: learn: 1909.7505738 test: 1903.3646725 best: 1903.3646725 (53) total: 1.07s remaining: 1.9s
54: learn: 1906.5137438 test: 1900.3217309 best: 1900.3217309 (54) total: 1.09s remaining: 1.88s
55: learn: 1902.7635182 test: 1896.4476251 best: 1896.4476251 (55) total: 1.11s remaining: 1.86s
56: learn: 1896.9599607 test: 1891.6898663 best: 1891.6898663 (56) total: 1.13s remaining: 1.84s
57: learn: 1893.8350518 test: 1888.6926201 best: 1888.6926201 (57) total: 1.14s remaining: 1.81s
58: learn: 1890.2999008 test: 1885.1089698 best: 1885.1089698 (58) total: 1.16s remaining: 1.79s
59: learn: 1887.1181065 test: 1881.9404688 best: 1881.9404688 (59) total: 1.18s remaining: 1.77s
60: learn: 1884.2415278 test: 1879.1772097 best: 1879.1772097 (60) total: 1.2s remaining: 1.75s
61: learn: 1881.6346425 test: 1876.6661178 best: 1876.6661178 (61) total: 1.22s remaining: 1.73s
62: learn: 1878.2699566 test: 1873.2709537 best: 1873.2709537 (62) total: 1.24s remaining: 1.71s
63: learn: 1874.6848966 test: 1869.7975041 best: 1869.7975041 (63) total: 1.26s remaining: 1.69s
64: learn: 1872.1635082 test: 1867.6982317 best: 1867.6982317 (64) total: 1.28s remaining: 1.67s
65: learn: 1867.4057818 test: 1863.3642933 best: 1863.3642933 (65) total: 1.29s remaining: 1.65s
66: learn: 1865.1051759 test: 1861.2464332 best: 1861.2464332 (66) total: 1.31s remaining: 1.63s
67: learn: 1862.3562353 test: 1858.5229634 best: 1858.5229634 (67) total: 1.33s remaining: 1.6s
68: learn: 1860.1310466 test: 1856.2173587 best: 1856.2173587 (68) total: 1.35s remaining: 1.58s
69: learn: 1857.7083831 test: 1854.2696619 best: 1854.2696619 (69) total: 1.37s remaining: 1.56s
70: learn: 1855.5400632 test: 1852.3069971 best: 1852.3069971 (70) total: 1.39s remaining: 1.54s
71: learn: 1853.0125861 test: 1849.8663056 best: 1849.8663056 (71) total: 1.41s remaining: 1.53s
72: learn: 1851.0611440 test: 1848.1221065 best: 1848.1221065 (72) total: 1.43s remaining: 1.5s
73: learn: 1847.3581862 test: 1844.2332607 best: 1844.2332607 (73) total: 1.45s remaining: 1.49s
74: learn: 1844.5074557 test: 1841.4876093 best: 1841.4876093 (74) total: 1.47s remaining: 1.47s
75: learn: 1841.5476070 test: 1838.8440156 best: 1838.8440156 (75) total: 1.49s remaining: 1.45s
76: learn: 1839.3195652 test: 1836.9601774 best: 1836.9601774 (76) total: 1.5s remaining: 1.43s
77: learn: 1838.0519668 test: 1835.5045096 best: 1835.5045096 (77) total: 1.52s remaining: 1.41s
78: learn: 1836.1863510 test: 1833.8972669 best: 1833.8972669 (78) total: 1.54s remaining: 1.38s
79: learn: 1833.3065785 test: 1831.5236269 best: 1831.5236269 (79) total: 1.56s remaining: 1.36s
80: learn: 1830.4662729 test: 1828.6448560 best: 1828.6448560 (80) total: 1.58s remaining: 1.34s
81: learn: 1828.8233365 test: 1827.0073776 best: 1827.0073776 (81) total: 1.6s remaining: 1.32s
82: learn: 1826.7661962 test: 1825.3076142 best: 1825.3076142 (82) total: 1.62s remaining: 1.31s
83: learn: 1825.0367472 test: 1823.4057841 best: 1823.4057841 (83) total: 1.64s remaining: 1.29s
84: learn: 1822.7690957 test: 1820.8826211 best: 1820.8826211 (84) total: 1.66s remaining: 1.27s
85: learn: 1820.5962335 test: 1818.9542666 best: 1818.9542666 (85) total: 1.68s remaining: 1.25s
86: learn: 1819.4520439 test: 1817.7884717 best: 1817.7884717 (86) total: 1.69s remaining: 1.23s
87: learn: 1817.5748811 test: 1816.4080572 best: 1816.4080572 (87) total: 1.71s remaining: 1.21s
88: learn: 1816.2378844 test: 1815.1987681 best: 1815.1987681 (88) total: 1.73s remaining: 1.19s
89: learn: 1813.8414176 test: 1813.1113724 best: 1813.1113724 (89) total: 1.75s remaining: 1.17s

90: learn: 1811.2643199 test: 1810.6005000 best: 1810.6005000 (90) total: 1.77s remaining: 1.15s
91: learn: 1809.0487878 test: 1808.7528550 best: 1808.7528550 (91) total: 1.79s remaining: 1.13s
92: learn: 1807.6702823 test: 1807.6314656 best: 1807.6314656 (92) total: 1.82s remaining: 1.11s
93: learn: 1806.6314550 test: 1806.6141162 best: 1806.6141162 (93) total: 1.84s remaining: 1.09s
94: learn: 1805.2320580 test: 1805.3598853 best: 1805.3598853 (94) total: 1.85s remaining: 1.07s
95: learn: 1804.2344596 test: 1804.6063141 best: 1804.6063141 (95) total: 1.87s remaining: 1.05s
96: learn: 1801.9944938 test: 1802.5672147 best: 1802.5672147 (96) total: 1.89s remaining: 1.03s
97: learn: 1800.0962706 test: 1800.6256918 best: 1800.6256918 (97) total: 1.92s remaining: 1.02s
98: learn: 1798.6610343 test: 1799.2971928 best: 1799.2971928 (98) total: 1.93s remaining: 996ms
99: learn: 1797.2174136 test: 1797.8732416 best: 1797.8732416 (99) total: 1.95s remaining: 976ms
100: learn: 1796.2341970 test: 1796.8327597 best: 1796.8327597 (100) total: 1.97s remaining: 955ms
101: learn: 1794.8445405 test: 1795.5581509 best: 1795.5581509 (101) total: 1.99s remaining: 935ms
102: learn: 1793.5646595 test: 1794.1103482 best: 1794.1103482 (102) total: 2.01s remaining: 918ms
103: learn: 1792.3074687 test: 1793.0739250 best: 1793.0739250 (103) total: 2.03s remaining: 898ms
104: learn: 1790.8446033 test: 1791.9162256 best: 1791.9162256 (104) total: 2.05s remaining: 878ms
105: learn: 1789.3662084 test: 1790.4360431 best: 1790.4360431 (105) total: 2.07s remaining: 858ms
106: learn: 1788.2853091 test: 1789.4336570 best: 1789.4336570 (106) total: 2.08s remaining: 838ms
107: learn: 1786.8827307 test: 1788.1273987 best: 1788.1273987 (107) total: 2.1s remaining: 818ms
108: learn: 1785.1173008 test: 1786.9948091 best: 1786.9948091 (108) total: 2.12s remaining: 798ms
109: learn: 1783.3011150 test: 1785.2714306 best: 1785.2714306 (109) total: 2.14s remaining: 779ms
110: learn: 1782.3588139 test: 1784.4567100 best: 1784.4567100 (110) total: 2.16s remaining: 759ms
111: learn: 1781.2126772 test: 1783.2936840 best: 1783.2936840 (111) total: 2.18s remaining: 739ms
112: learn: 1779.8473817 test: 1782.0719760 best: 1782.0719760 (112) total: 2.19s remaining: 719ms
113: learn: 1779.0939527 test: 1781.3595574 best: 1781.3595574 (113) total: 2.22s remaining: 700ms
114: learn: 1778.0153652 test: 1780.5088092 best: 1780.5088092 (114) total: 2.23s remaining: 680ms
115: learn: 1776.5780965 test: 1779.1282530 best: 1779.1282530 (115) total: 2.25s remaining: 661ms
116: learn: 1775.1257505 test: 1778.1278223 best: 1778.1278223 (116) total: 2.27s remaining: 642ms
117: learn: 1773.1086595 test: 1777.0451908 best: 1777.0451908 (117) total: 2.29s remaining: 622ms
118: learn: 1772.1977693 test: 1776.2755581 best: 1776.2755581 (118) total: 2.31s remaining: 602ms
119: learn: 1770.8966600 test: 1775.4160139 best: 1775.4160139 (119) total: 2.33s remaining: 582ms
120: learn: 1770.1145988 test: 1774.5590521 best: 1774.5590521 (120) total: 2.35s remaining: 563ms
121: learn: 1768.5971456 test: 1773.2318603 best: 1773.2318603 (121) total: 2.37s remaining: 543ms
122: learn: 1767.2372814 test: 1772.0127099 best: 1772.0127099 (122) total: 2.38s remaining: 524ms
123: learn: 1766.1090620 test: 1770.9225325 best: 1770.9225325 (123) total: 2.41s remaining: 505ms
124: learn: 1764.8043292 test: 1769.8334714 best: 1769.8334714 (124) total: 2.43s remaining: 486ms
125: learn: 1762.3729660 test: 1767.2818024 best: 1767.2818024 (125) total: 2.45s remaining: 466ms
126: learn: 1761.4265473 test: 1766.2579560 best: 1766.2579560 (126) total: 2.46s remaining: 446ms
127: learn: 1760.3778050 test: 1765.4821184 best: 1765.4821184 (127) total: 2.48s remaining: 426ms
128: learn: 1759.3775443 test: 1764.8140861 best: 1764.8140861 (128) total: 2.5s remaining: 407ms
129: learn: 1758.4058021 test: 1763.9883061 best: 1763.9883061 (129) total: 2.52s remaining: 388ms
130: learn: 1757.4275557 test: 1762.9731718 best: 1762.9731718 (130) total: 2.54s remaining: 368ms

131: learn: 1756.3366935 test: 1761.9473875 best: 1761.9473875 (131) total: 2.56s remaining: 349ms
132: learn: 1755.0752814 test: 1760.5914915 best: 1760.5914915 (132) total: 2.58s remaining: 330ms
133: learn: 1753.9216899 test: 1759.4672770 best: 1759.4672770 (133) total: 2.6s remaining: 311ms
134: learn: 1752.7165669 test: 1758.3921341 best: 1758.3921341 (134) total: 2.62s remaining: 291ms
135: learn: 1751.5904616 test: 1757.4199601 best: 1757.4199601 (135) total: 2.64s remaining: 272ms
136: learn: 1749.6291935 test: 1755.6517131 best: 1755.6517131 (136) total: 2.66s remaining: 253ms
137: learn: 1748.1076175 test: 1753.9127020 best: 1753.9127020 (137) total: 2.68s remaining: 233ms
138: learn: 1747.0180303 test: 1752.9717970 best: 1752.9717970 (138) total: 2.7s remaining: 214ms
139: learn: 1746.0014842 test: 1752.2701983 best: 1752.2701983 (139) total: 2.72s remaining: 195ms
140: learn: 1745.3301088 test: 1751.7370599 best: 1751.7370599 (140) total: 2.74s remaining: 175ms
141: learn: 1743.5781517 test: 1750.0731360 best: 1750.0731360 (141) total: 2.76s remaining: 156ms
142: learn: 1742.4474210 test: 1749.1877014 best: 1749.1877014 (142) total: 2.78s remaining: 136ms
143: learn: 1741.8146058 test: 1748.5474053 best: 1748.5474053 (143) total: 2.8s remaining: 117ms
144: learn: 1740.8890713 test: 1747.8614096 best: 1747.8614096 (144) total: 2.82s remaining: 97.2ms
145: learn: 1739.6647244 test: 1746.8760329 best: 1746.8760329 (145) total: 2.84s remaining: 77.8ms
146: learn: 1738.5148653 test: 1745.7842527 best: 1745.7842527 (146) total: 2.86s remaining: 58.3ms
147: learn: 1736.8262916 test: 1744.7521527 best: 1744.7521527 (147) total: 2.88s remaining: 38.9ms
148: learn: 1735.8285827 test: 1743.9814024 best: 1743.9814024 (148) total: 2.9s remaining: 19.5ms
149: learn: 1734.7732482 test: 1742.9485080 best: 1742.9485080 (149) total: 2.92s remaining: 0us

bestTest = 1742.948508

bestIteration = 149

61: loss: 1742.9485080 best: 1741.3311752 (57) total: 2m 24s remaining: 1m 19s
0: learn: 6804.7243338 test: 6832.3115458 best: 6832.3115458 (0) total: 20.7ms remaining: 3.08s
1: learn: 6636.3760727 test: 6663.7591004 best: 6663.7591004 (1) total: 41.1ms remaining: 3.04s
2: learn: 6472.4741468 test: 6499.9890322 best: 6499.9890322 (2) total: 60ms remaining: 2.94s
3: learn: 6311.7382830 test: 6338.8526470 best: 6338.8526470 (3) total: 79.5ms remaining: 2.9s
4: learn: 6158.3583814 test: 6185.2477489 best: 6185.2477489 (4) total: 100ms remaining: 2.9s
5: learn: 6008.8584268 test: 6035.7311375 best: 6035.7311375 (5) total: 120ms remaining: 2.89s
6: learn: 5864.0727468 test: 5890.9111523 best: 5890.9111523 (6) total: 141ms remaining: 2.88s
7: learn: 5724.2838579 test: 5750.8769435 best: 5750.8769435 (7) total: 165ms remaining: 2.93s
8: learn: 5589.3960101 test: 5615.3979983 best: 5615.3979983 (8) total: 185ms remaining: 2.9s
9: learn: 5459.1085877 test: 5484.9513015 best: 5484.9513015 (9) total: 207ms remaining: 2.9s
10: learn: 5333.6024373 test: 5359.2522815 best: 5359.2522815 (10) total: 229ms remaining: 2.89s
11: learn: 5211.2193124 test: 5236.3648355 best: 5236.3648355 (11) total: 254ms remaining: 2.92s
12: learn: 5094.2654310 test: 5119.2615550 best: 5119.2615550 (12) total: 277ms remaining: 2.92s
13: learn: 4979.0741813 test: 5003.7650059 best: 5003.7650059 (13) total: 298ms remaining: 2.89s
14: learn: 4869.3025749 test: 4893.4330438 best: 4893.4330438 (14) total: 318ms remaining: 2.86s
15: learn: 4764.6567792 test: 4788.1826693 best: 4788.1826693 (15) total: 338ms remaining: 2.83s
16: learn: 4662.4905826 test: 4685.8011758 best: 4685.8011758 (16) total: 366ms remaining: 2.86s

17: learn: 4567.2518173 test: 4590.6286627 best: 4590.6286627 (17) total: 386ms remaining: 2.83s
18: learn: 4470.7353560 test: 4493.9742437 best: 4493.9742437 (18) total: 407ms remaining: 2.81s
19: learn: 4377.5980282 test: 4400.4373194 best: 4400.4373194 (19) total: 428ms remaining: 2.79s
20: learn: 4290.0253757 test: 4312.6507884 best: 4312.6507884 (20) total: 448ms remaining: 2.75s
21: learn: 4205.6098360 test: 4227.6073269 best: 4227.6073269 (21) total: 468ms remaining: 2.72s
22: learn: 4123.8775164 test: 4145.5607646 best: 4145.5607646 (22) total: 487ms remaining: 2.69s
23: learn: 4045.8835740 test: 4066.9312933 best: 4066.9312933 (23) total: 506ms remaining: 2.66s
24: learn: 3968.8301141 test: 3989.5349592 best: 3989.5349592 (24) total: 526ms remaining: 2.63s
25: learn: 3896.6774440 test: 3917.0637273 best: 3917.0637273 (25) total: 547ms remaining: 2.61s
26: learn: 3824.6606995 test: 3844.5103289 best: 3844.5103289 (26) total: 570ms remaining: 2.6s
27: learn: 3754.2522646 test: 3773.6950419 best: 3773.6950419 (27) total: 590ms remaining: 2.57s
28: learn: 3689.9457529 test: 3709.0000091 best: 3709.0000091 (28) total: 610ms remaining: 2.54s
29: learn: 3626.7468597 test: 3645.4553939 best: 3645.4553939 (29) total: 629ms remaining: 2.52s
30: learn: 3563.9109833 test: 3582.2114789 best: 3582.2114789 (30) total: 649ms remaining: 2.49s
31: learn: 3503.7300264 test: 3521.4039806 best: 3521.4039806 (31) total: 671ms remaining: 2.47s
32: learn: 3446.4258170 test: 3463.7129956 best: 3463.7129956 (32) total: 691ms remaining: 2.45s
33: learn: 3392.3315059 test: 3409.3910754 best: 3409.3910754 (33) total: 710ms remaining: 2.42s
34: learn: 3339.1523515 test: 3355.9726784 best: 3355.9726784 (34) total: 730ms remaining: 2.4s
35: learn: 3287.6855092 test: 3303.9391605 best: 3303.9391605 (35) total: 754ms remaining: 2.39s
36: learn: 3239.2352938 test: 3255.0310699 best: 3255.0310699 (36) total: 774ms remaining: 2.36s
37: learn: 3191.8428216 test: 3207.1193245 best: 3207.1193245 (37) total: 793ms remaining: 2.34s
38: learn: 3148.0173094 test: 3162.8123625 best: 3162.8123625 (38) total: 812ms remaining: 2.31s
39: learn: 3105.2574835 test: 3119.6712430 best: 3119.6712430 (39) total: 830ms remaining: 2.28s
40: learn: 3063.4260596 test: 3077.5487234 best: 3077.5487234 (40) total: 850ms remaining: 2.26s
41: learn: 3023.9337555 test: 3037.4694345 best: 3037.4694345 (41) total: 870ms remaining: 2.24s
42: learn: 2984.2347334 test: 2997.5770590 best: 2997.5770590 (42) total: 890ms remaining: 2.21s
43: learn: 2947.9505075 test: 2961.0977585 best: 2961.0977585 (43) total: 909ms remaining: 2.19s
44: learn: 2913.7595451 test: 2926.5305956 best: 2926.5305956 (44) total: 929ms remaining: 2.17s
45: learn: 2879.9154723 test: 2892.3521807 best: 2892.3521807 (45) total: 953ms remaining: 2.15s
46: learn: 2847.4545555 test: 2859.2980427 best: 2859.2980427 (46) total: 973ms remaining: 2.13s
47: learn: 2816.9372092 test: 2828.6658591 best: 2828.6658591 (47) total: 993ms remaining: 2.11s
48: learn: 2786.5926284 test: 2797.7064875 best: 2797.7064875 (48) total: 1.01s remaining: 2.09s
49: learn: 2758.1158003 test: 2768.6903814 best: 2768.6903814 (49) total: 1.03s remaining: 2.06s
50: learn: 2730.5346115 test: 2740.2953443 best: 2740.2953443 (50) total: 1.05s remaining: 2.04s
51: learn: 2703.6945511 test: 2712.6869303 best: 2712.6869303 (51) total: 1.07s remaining: 2.02s
52: learn: 2678.0590154 test: 2686.5490271 best: 2686.5490271 (52) total: 1.09s remaining: 1.99s
53: learn: 2653.4829235 test: 2661.3757362 best: 2661.3757362 (53) total: 1.11s remaining: 1.97s
54: learn: 2629.7844753 test: 2637.1595308 best: 2637.1595308 (54) total: 1.14s remaining: 1.96s
55: learn: 2607.5438989 test: 2614.3689604 best: 2614.3689604 (55) total: 1.16s remaining: 1.94s
56: learn: 2585.8653667 test: 2592.1419079 best: 2592.1419079 (56) total: 1.18s remaining: 1.92s
57: learn: 2564.7932781 test: 2570.6161754 best: 2570.6161754 (57) total: 1.19s remaining: 1.89s
58: learn: 2543.8412640 test: 2549.2437466 best: 2549.2437466 (58) total: 1.21s remaining: 1.87s

59: learn: 2523.5858739 test: 2528.4834181 best: 2528.4834181 (59) total: 1.23s remaining: 1.85s
60: learn: 2505.3287398 test: 2509.8511725 best: 2509.8511725 (60) total: 1.25s remaining: 1.83s
61: learn: 2487.5556687 test: 2491.4836730 best: 2491.4836730 (61) total: 1.27s remaining: 1.81s
62: learn: 2470.5024913 test: 2474.0535454 best: 2474.0535454 (62) total: 1.29s remaining: 1.78s
63: learn: 2452.8148776 test: 2456.1472015 best: 2456.1472015 (63) total: 1.31s remaining: 1.76s
64: learn: 2436.6674787 test: 2439.6625081 best: 2439.6625081 (64) total: 1.33s remaining: 1.74s
65: learn: 2420.9787331 test: 2423.7037135 best: 2423.7037135 (65) total: 1.35s remaining: 1.72s
66: learn: 2406.2841735 test: 2408.5210098 best: 2408.5210098 (66) total: 1.37s remaining: 1.7s
67: learn: 2391.8694621 test: 2393.7483622 best: 2393.7483622 (67) total: 1.39s remaining: 1.68s
68: learn: 2376.3404961 test: 2377.8885588 best: 2377.8885588 (68) total: 1.41s remaining: 1.66s
69: learn: 2363.4251937 test: 2364.5393697 best: 2364.5393697 (69) total: 1.43s remaining: 1.64s
70: learn: 2350.9973466 test: 2351.6803634 best: 2351.6803634 (70) total: 1.45s remaining: 1.62s
71: learn: 2338.8924096 test: 2339.2083986 best: 2339.2083986 (71) total: 1.47s remaining: 1.59s
72: learn: 2327.5833677 test: 2327.5092914 best: 2327.5092914 (72) total: 1.49s remaining: 1.57s
73: learn: 2315.8885970 test: 2315.4732964 best: 2315.4732964 (73) total: 1.51s remaining: 1.55s
74: learn: 2304.6175076 test: 2304.0201561 best: 2304.0201561 (74) total: 1.53s remaining: 1.53s
75: learn: 2292.5106147 test: 2291.6437731 best: 2291.6437731 (75) total: 1.55s remaining: 1.51s
76: learn: 2282.8385388 test: 2281.6452883 best: 2281.6452883 (76) total: 1.57s remaining: 1.49s
77: learn: 2272.7747475 test: 2271.2260014 best: 2271.2260014 (77) total: 1.58s remaining: 1.46s
78: learn: 2262.9937444 test: 2261.3458408 best: 2261.3458408 (78) total: 1.6s remaining: 1.44s
79: learn: 2254.1477853 test: 2252.2232280 best: 2252.2232280 (79) total: 1.62s remaining: 1.42s
80: learn: 2243.9657645 test: 2241.8614342 best: 2241.8614342 (80) total: 1.65s remaining: 1.4s
81: learn: 2235.4247648 test: 2233.2431704 best: 2233.2431704 (81) total: 1.67s remaining: 1.38s
82: learn: 2226.7735815 test: 2224.3866985 best: 2224.3866985 (82) total: 1.69s remaining: 1.36s
83: learn: 2218.9853273 test: 2216.4335518 best: 2216.4335518 (83) total: 1.71s remaining: 1.34s
84: learn: 2211.2228579 test: 2208.1882242 best: 2208.1882242 (84) total: 1.73s remaining: 1.32s
85: learn: 2203.4026034 test: 2200.2098804 best: 2200.2098804 (85) total: 1.75s remaining: 1.3s
86: learn: 2195.0123192 test: 2191.4623218 best: 2191.4623218 (86) total: 1.78s remaining: 1.29s
87: learn: 2188.2090027 test: 2184.4683861 best: 2184.4683861 (87) total: 1.8s remaining: 1.27s
88: learn: 2181.4363744 test: 2177.4962991 best: 2177.4962991 (88) total: 1.82s remaining: 1.25s
89: learn: 2173.9643304 test: 2169.8711560 best: 2169.8711560 (89) total: 1.84s remaining: 1.23s
90: learn: 2166.1119316 test: 2161.8167972 best: 2161.8167972 (90) total: 1.86s remaining: 1.21s
91: learn: 2158.3598034 test: 2153.8798040 best: 2153.8798040 (91) total: 1.88s remaining: 1.19s
92: learn: 2151.7438969 test: 2147.0688136 best: 2147.0688136 (92) total: 1.9s remaining: 1.17s
93: learn: 2145.6095832 test: 2140.8551979 best: 2140.8551979 (93) total: 1.92s remaining: 1.14s
94: learn: 2139.7136477 test: 2134.6470070 best: 2134.6470070 (94) total: 1.94s remaining: 1.12s
95: learn: 2133.9298271 test: 2128.4862380 best: 2128.4862380 (95) total: 1.96s remaining: 1.1s
96: learn: 2128.3437402 test: 2122.7375759 best: 2122.7375759 (96) total: 1.98s remaining: 1.08s
97: learn: 2122.0905079 test: 2116.3777072 best: 2116.3777072 (97) total: 2s remaining: 1.06s
98: learn: 2116.3576242 test: 2110.7114294 best: 2110.7114294 (98) total: 2.02s remaining: 1.04s
99: learn: 2110.8160563 test: 2104.8623504 best: 2104.8623504 (99) total: 2.04s remaining: 1.02s

100: learn: 2105.8509833 test: 2099.9521620 best: 2099.9521620 (100) total: 2.06s remaining: 1s
101: learn: 2101.1299384 test: 2094.9667991 best: 2094.9667991 (101) total: 2.08s remaining: 979ms
102: learn: 2096.3579090 test: 2089.9549552 best: 2089.9549552 (102) total: 2.1s remaining: 958ms
103: learn: 2091.6641355 test: 2085.1572173 best: 2085.1572173 (103) total: 2.12s remaining: 938ms
104: learn: 2087.2962249 test: 2080.6306441 best: 2080.6306441 (104) total: 2.14s remaining: 917ms
105: learn: 2082.7948765 test: 2076.0614710 best: 2076.0614710 (105) total: 2.16s remaining: 898ms
106: learn: 2078.5710303 test: 2071.7427655 best: 2071.7427655 (106) total: 2.18s remaining: 877ms
107: learn: 2073.8856537 test: 2067.0180214 best: 2067.0180214 (107) total: 2.2s remaining: 856ms
108: learn: 2069.7048576 test: 2062.8286050 best: 2062.8286050 (108) total: 2.22s remaining: 835ms
109: learn: 2066.0487169 test: 2059.2607004 best: 2059.2607004 (109) total: 2.24s remaining: 815ms
110: learn: 2061.8338289 test: 2055.0916372 best: 2055.0916372 (110) total: 2.26s remaining: 795ms
111: learn: 2058.0655391 test: 2051.1777238 best: 2051.1777238 (111) total: 2.28s remaining: 774ms
112: learn: 2054.5767880 test: 2047.6023355 best: 2047.6023355 (112) total: 2.3s remaining: 753ms
113: learn: 2050.8092172 test: 2043.7454357 best: 2043.7454357 (113) total: 2.32s remaining: 732ms
114: learn: 2047.2431927 test: 2039.9851561 best: 2039.9851561 (114) total: 2.34s remaining: 711ms
115: learn: 2043.8505315 test: 2036.5475303 best: 2036.5475303 (115) total: 2.35s remaining: 691ms
116: learn: 2040.5323516 test: 2033.2518951 best: 2033.2518951 (116) total: 2.37s remaining: 670ms
117: learn: 2037.4254496 test: 2030.0983498 best: 2030.0983498 (117) total: 2.39s remaining: 649ms
118: learn: 2034.1407107 test: 2026.7907657 best: 2026.7907657 (118) total: 2.41s remaining: 629ms
119: learn: 2031.2666495 test: 2023.9448718 best: 2023.9448718 (119) total: 2.43s remaining: 608ms
120: learn: 2028.3999683 test: 2020.9759883 best: 2020.9759883 (120) total: 2.46s remaining: 588ms
121: learn: 2025.3001606 test: 2017.6279598 best: 2017.6279598 (121) total: 2.47s remaining: 568ms
122: learn: 2022.7463310 test: 2015.1521616 best: 2015.1521616 (122) total: 2.49s remaining: 547ms
123: learn: 2020.1022825 test: 2012.4404389 best: 2012.4404389 (123) total: 2.51s remaining: 526ms
124: learn: 2016.1107172 test: 2008.3134102 best: 2008.3134102 (124) total: 2.53s remaining: 506ms
125: learn: 2013.4819493 test: 2005.5485662 best: 2005.5485662 (125) total: 2.55s remaining: 486ms
126: learn: 2009.7440115 test: 2001.8001199 best: 2001.8001199 (126) total: 2.57s remaining: 465ms
127: learn: 2007.3029325 test: 1999.3070023 best: 1999.3070023 (127) total: 2.59s remaining: 445ms
128: learn: 2005.0860040 test: 1996.9848432 best: 1996.9848432 (128) total: 2.6s remaining: 424ms
129: learn: 2001.5991987 test: 1993.4961070 best: 1993.4961070 (129) total: 2.63s remaining: 404ms
130: learn: 1999.5181937 test: 1991.2979652 best: 1991.2979652 (130) total: 2.65s remaining: 384ms
131: learn: 1997.1165605 test: 1988.9225512 best: 1988.9225512 (131) total: 2.67s remaining: 364ms
132: learn: 1995.0348807 test: 1986.8436065 best: 1986.8436065 (132) total: 2.69s remaining: 344ms
133: learn: 1992.6404542 test: 1984.3384240 best: 1984.3384240 (133) total: 2.71s remaining: 323ms
134: learn: 1990.3327786 test: 1981.7619966 best: 1981.7619966 (134) total: 2.72s remaining: 303ms
135: learn: 1988.0334427 test: 1979.3928967 best: 1979.3928967 (135) total: 2.74s remaining: 282ms
136: learn: 1986.0313836 test: 1977.4560091 best: 1977.4560091 (136) total: 2.76s remaining: 262ms
137: learn: 1984.1522024 test: 1975.5926265 best: 1975.5926265 (137) total: 2.78s remaining: 241ms
138: learn: 1981.6699947 test: 1973.1264131 best: 1973.1264131 (138) total: 2.79s remaining: 221ms
139: learn: 1979.4844714 test: 1970.8513519 best: 1970.8513519 (139) total: 2.81s remaining: 201ms
140: learn: 1977.5467283 test: 1968.8702706 best: 1968.8702706 (140) total: 2.83s remaining: 181ms

141: learn: 1975.2306468 test: 1966.6061016 best: 1966.6061016 (141) total: 2.85s remaining: 161ms
142: learn: 1973.5356050 test: 1964.8062951 best: 1964.8062951 (142) total: 2.87s remaining: 141ms
143: learn: 1971.5398192 test: 1962.8969300 best: 1962.8969300 (143) total: 2.89s remaining: 120ms
144: learn: 1969.7540015 test: 1961.1302822 best: 1961.1302822 (144) total: 2.91s remaining: 100ms
145: learn: 1967.6657378 test: 1958.9898499 best: 1958.9898499 (145) total: 2.92s remaining: 80.1ms
146: learn: 1964.9909338 test: 1956.1995340 best: 1956.1995340 (146) total: 2.95s remaining: 60.2ms
147: learn: 1963.1121449 test: 1954.3654509 best: 1954.3654509 (147) total: 2.97s remaining: 40.1ms
148: learn: 1961.2807401 test: 1952.5410748 best: 1952.5410748 (148) total: 2.99s remaining: 20.1ms
149: learn: 1959.4065286 test: 1950.6869453 best: 1950.6869453 (149) total: 3.01s remaining: 0us

bestTest = 1950.686945

bestIteration = 149

62: loss: 1950.6869453 best: 1741.3311752 (57) total: 2m 27s remaining: 1m 17s
0: learn: 6394.2054357 test: 6420.6049341 best: 6420.6049341 (0) total: 22.4ms remaining: 3.34s
1: learn: 5882.2079984 test: 5908.0506001 best: 5908.0506001 (1) total: 42.5ms remaining: 3.14s
2: learn: 5413.9645663 test: 5439.5922712 best: 5439.5922712 (2) total: 63.5ms remaining: 3.11s
3: learn: 5003.9699246 test: 5028.8417858 best: 5028.8417858 (3) total: 83.4ms remaining: 3.04s
4: learn: 4641.4714637 test: 4665.2661361 best: 4665.2661361 (4) total: 103ms remaining: 3s
5: learn: 4319.9630170 test: 4343.1694622 best: 4343.1694622 (5) total: 126ms remaining: 3.03s
6: learn: 4030.9193621 test: 4052.6237092 best: 4052.6237092 (6) total: 146ms remaining: 2.99s
7: learn: 3775.7613258 test: 3796.3465732 best: 3796.3465732 (7) total: 168ms remaining: 2.98s
8: learn: 3554.5433874 test: 3573.1649822 best: 3573.1649822 (8) total: 187ms remaining: 2.93s
9: learn: 3360.2107788 test: 3378.3294307 best: 3378.3294307 (9) total: 207ms remaining: 2.9s
10: learn: 3191.9305369 test: 3208.1836949 best: 3208.1836949 (10) total: 229ms remaining: 2.9s
11: learn: 3044.1418204 test: 3058.7102353 best: 3058.7102353 (11) total: 249ms remaining: 2.86s
12: learn: 2921.4805168 test: 2934.7754732 best: 2934.7754732 (12) total: 269ms remaining: 2.83s
13: learn: 2805.3518673 test: 2817.5921077 best: 2817.5921077 (13) total: 287ms remaining: 2.79s
14: learn: 2707.9130371 test: 2718.0163530 best: 2718.0163530 (14) total: 306ms remaining: 2.75s
15: learn: 2622.4061990 test: 2630.6788811 best: 2630.6788811 (15) total: 328ms remaining: 2.75s
16: learn: 2547.1408772 test: 2554.2529396 best: 2554.2529396 (16) total: 346ms remaining: 2.71s
17: learn: 2483.5602982 test: 2488.9009150 best: 2488.9009150 (17) total: 365ms remaining: 2.68s
18: learn: 2428.6480882 test: 2433.1382142 best: 2433.1382142 (18) total: 384ms remaining: 2.65s
19: learn: 2380.6674889 test: 2383.4138598 best: 2383.4138598 (19) total: 403ms remaining: 2.62s
20: learn: 2337.6162753 test: 2339.4614184 best: 2339.4614184 (20) total: 422ms remaining: 2.59s
21: learn: 2298.5119692 test: 2299.1820833 best: 2299.1820833 (21) total: 440ms remaining: 2.56s
22: learn: 2263.8890747 test: 2262.9179738 best: 2262.9179738 (22) total: 459ms remaining: 2.53s
23: learn: 2233.3128699 test: 2231.6692719 best: 2231.6692719 (23) total: 478ms remaining: 2.51s
24: learn: 2207.6492543 test: 2205.0448901 best: 2205.0448901 (24) total: 495ms remaining: 2.48s
25: learn: 2183.6580142 test: 2180.6156846 best: 2180.6156846 (25) total: 519ms remaining: 2.47s
26: learn: 2163.0350543 test: 2158.9153436 best: 2158.9153436 (26) total: 537ms remaining: 2.45s
27: learn: 2144.0058725 test: 2139.2322152 best: 2139.2322152 (27) total: 553ms remaining: 2.42s

27: learn: 2144.0659765 test: 2139.6260156 best: 2139.6260156 (27) total: 556ms remaining: 2.42s
28: learn: 2120.2226500 test: 2115.5680100 best: 2115.5680100 (28) total: 575ms remaining: 2.4s
29: learn: 2104.8787921 test: 2099.9345256 best: 2099.9345256 (29) total: 593ms remaining: 2.37s
30: learn: 2089.3692483 test: 2083.6347967 best: 2083.6347967 (30) total: 612ms remaining: 2.35s
31: learn: 2072.2087203 test: 2065.6218043 best: 2065.6218043 (31) total: 639ms remaining: 2.36s
32: learn: 2060.8454059 test: 2054.3857029 best: 2054.3857029 (32) total: 661ms remaining: 2.34s
33: learn: 2048.4231381 test: 2041.5494662 best: 2041.5494662 (33) total: 683ms remaining: 2.33s
34: learn: 2033.9344257 test: 2026.6132591 best: 2026.6132591 (34) total: 706ms remaining: 2.32s
35: learn: 2024.3953016 test: 2017.1731173 best: 2017.1731173 (35) total: 734ms remaining: 2.32s
36: learn: 2015.3938645 test: 2008.0864220 best: 2008.0864220 (36) total: 760ms remaining: 2.32s
37: learn: 2007.0117941 test: 1999.3590474 best: 1999.3590474 (37) total: 786ms remaining: 2.32s
38: learn: 2000.0337113 test: 1992.7475152 best: 1992.7475152 (38) total: 811ms remaining: 2.31s
39: learn: 1989.8906840 test: 1982.1446262 best: 1982.1446262 (39) total: 835ms remaining: 2.29s
40: learn: 1982.7747098 test: 1975.3052992 best: 1975.3052992 (40) total: 855ms remaining: 2.27s
41: learn: 1975.4372875 test: 1967.4239852 best: 1967.4239852 (41) total: 874ms remaining: 2.25s
42: learn: 1968.3109795 test: 1960.6261521 best: 1960.6261521 (42) total: 893ms remaining: 2.22s
43: learn: 1962.9524848 test: 1955.2945831 best: 1955.2945831 (43) total: 917ms remaining: 2.21s
44: learn: 1956.7320798 test: 1949.0263317 best: 1949.0263317 (44) total: 935ms remaining: 2.18s
45: learn: 1950.8080774 test: 1943.2136414 best: 1943.2136414 (45) total: 953ms remaining: 2.15s
46: learn: 1945.2868253 test: 1938.1839225 best: 1938.1839225 (46) total: 972ms remaining: 2.13s
47: learn: 1939.7667151 test: 1932.8167517 best: 1932.8167517 (47) total: 991ms remaining: 2.11s
48: learn: 1934.8808625 test: 1927.2300638 best: 1927.2300638 (48) total: 1.01s remaining: 2.08s
49: learn: 1929.6053176 test: 1922.1180487 best: 1922.1180487 (49) total: 1.03s remaining: 2.06s
50: learn: 1925.6225036 test: 1918.4019967 best: 1918.4019967 (50) total: 1.04s remaining: 2.03s
51: learn: 1921.3835253 test: 1914.1761740 best: 1914.1761740 (51) total: 1.06s remaining: 2s
52: learn: 1917.5477420 test: 1910.6304371 best: 1910.6304371 (52) total: 1.08s remaining: 1.98s
53: learn: 1913.2567988 test: 1906.3483507 best: 1906.3483507 (53) total: 1.1s remaining: 1.96s
54: learn: 1910.4921127 test: 1903.6457311 best: 1903.6457311 (54) total: 1.12s remaining: 1.94s
55: learn: 1907.2147916 test: 1900.3450211 best: 1900.3450211 (55) total: 1.14s remaining: 1.91s
56: learn: 1900.5098815 test: 1894.2523775 best: 1894.2523775 (56) total: 1.16s remaining: 1.89s
57: learn: 1897.2520602 test: 1891.2774540 best: 1891.2774540 (57) total: 1.18s remaining: 1.87s
58: learn: 1894.2262581 test: 1888.6030380 best: 1888.6030380 (58) total: 1.2s remaining: 1.84s
59: learn: 1890.9156132 test: 1885.3611878 best: 1885.3611878 (59) total: 1.22s remaining: 1.82s
60: learn: 1884.6150897 test: 1878.9858066 best: 1878.9858066 (60) total: 1.24s remaining: 1.8s
61: learn: 1881.8957916 test: 1875.9210569 best: 1875.9210569 (61) total: 1.25s remaining: 1.78s
62: learn: 1879.5445134 test: 1873.3445763 best: 1873.3445763 (62) total: 1.27s remaining: 1.76s
63: learn: 1877.3607520 test: 1871.4582705 best: 1871.4582705 (63) total: 1.29s remaining: 1.73s
64: learn: 1872.1356608 test: 1865.9809126 best: 1865.9809126 (64) total: 1.31s remaining: 1.72s
65: learn: 1869.0413197 test: 1862.8925406 best: 1862.8925406 (65) total: 1.33s remaining: 1.7s
66: learn: 1865.8971914 test: 1859.4222182 best: 1859.4222182 (66) total: 1.35s remaining: 1.68s
67: learn: 1863.6874699 test: 1857.3089595 best: 1857.3089595 (67) total: 1.37s remaining: 1.65s
68: learn: 1860.7346603 test: 1854.3352095 best: 1854.3352095 (68) total: 1.39s remaining: 1.63s

69: learn: 1858.1830375 test: 1851.7166114 best: 1851.7166114 (69) total: 1.41s remaining: 1.61s
70: learn: 1856.2004916 test: 1849.8880448 best: 1849.8880448 (70) total: 1.43s remaining: 1.59s
71: learn: 1853.9063843 test: 1847.7341172 best: 1847.7341172 (71) total: 1.45s remaining: 1.57s
72: learn: 1851.7114457 test: 1845.5785626 best: 1845.5785626 (72) total: 1.46s remaining: 1.54s
73: learn: 1849.7967712 test: 1843.6280809 best: 1843.6280809 (73) total: 1.48s remaining: 1.52s
74: learn: 1848.2392746 test: 1842.3650643 best: 1842.3650643 (74) total: 1.5s remaining: 1.5s
75: learn: 1846.4349664 test: 1840.5789828 best: 1840.5789828 (75) total: 1.52s remaining: 1.48s
76: learn: 1844.9595420 test: 1839.5054049 best: 1839.5054049 (76) total: 1.54s remaining: 1.46s
77: learn: 1842.2343399 test: 1836.6952544 best: 1836.6952544 (77) total: 1.56s remaining: 1.44s
78: learn: 1840.3449785 test: 1835.1396599 best: 1835.1396599 (78) total: 1.57s remaining: 1.42s
79: learn: 1838.1659432 test: 1832.9773102 best: 1832.9773102 (79) total: 1.59s remaining: 1.4s
80: learn: 1835.8566970 test: 1831.2649380 best: 1831.2649380 (80) total: 1.62s remaining: 1.38s
81: learn: 1834.4798020 test: 1829.9600018 best: 1829.9600018 (81) total: 1.64s remaining: 1.36s
82: learn: 1832.5587773 test: 1828.2983297 best: 1828.2983297 (82) total: 1.66s remaining: 1.34s
83: learn: 1830.6459379 test: 1826.4492591 best: 1826.4492591 (83) total: 1.68s remaining: 1.32s
84: learn: 1828.9046796 test: 1824.6651116 best: 1824.6651116 (84) total: 1.69s remaining: 1.29s
85: learn: 1825.6688625 test: 1821.9191529 best: 1821.9191529 (85) total: 1.71s remaining: 1.27s
86: learn: 1823.6792104 test: 1819.6854385 best: 1819.6854385 (86) total: 1.73s remaining: 1.25s
87: learn: 1821.3727482 test: 1817.5198868 best: 1817.5198868 (87) total: 1.75s remaining: 1.23s
88: learn: 1820.1196760 test: 1816.4592152 best: 1816.4592152 (88) total: 1.77s remaining: 1.21s
89: learn: 1818.7425321 test: 1814.6903203 best: 1814.6903203 (89) total: 1.78s remaining: 1.19s
90: learn: 1817.3530063 test: 1813.2928336 best: 1813.2928336 (90) total: 1.81s remaining: 1.17s
91: learn: 1814.8186604 test: 1811.0235098 best: 1811.0235098 (91) total: 1.83s remaining: 1.15s
92: learn: 1812.9544693 test: 1809.2089561 best: 1809.2089561 (92) total: 1.85s remaining: 1.13s
93: learn: 1809.9457368 test: 1806.1320423 best: 1806.1320423 (93) total: 1.87s remaining: 1.11s
94: learn: 1807.8814929 test: 1804.1432911 best: 1804.1432911 (94) total: 1.89s remaining: 1.09s
95: learn: 1806.7861169 test: 1803.1565819 best: 1803.1565819 (95) total: 1.91s remaining: 1.07s
96: learn: 1805.5429181 test: 1801.9078506 best: 1801.9078506 (96) total: 1.92s remaining: 1.05s
97: learn: 1803.5514687 test: 1800.0199922 best: 1800.0199922 (97) total: 1.94s remaining: 1.03s
98: learn: 1802.2519259 test: 1798.8744058 best: 1798.8744058 (98) total: 1.96s remaining: 1.01s
99: learn: 1800.6756586 test: 1797.5411546 best: 1797.5411546 (99) total: 1.98s remaining: 989ms
100: learn: 1799.7822760 test: 1796.7705416 best: 1796.7705416 (100) total: 1.99s remaining: 968ms
101: learn: 1798.7100098 test: 1795.7657309 best: 1795.7657309 (101) total: 2.02s remaining: 949ms
102: learn: 1797.4260405 test: 1794.5198626 best: 1794.5198626 (102) total: 2.04s remaining: 929ms
103: learn: 1795.4303334 test: 1792.7845904 best: 1792.7845904 (103) total: 2.06s remaining: 909ms
104: learn: 1793.7498352 test: 1791.6729168 best: 1791.6729168 (104) total: 2.08s remaining: 889ms
105: learn: 1791.8807315 test: 1790.3490300 best: 1790.3490300 (105) total: 2.09s remaining: 869ms
106: learn: 1790.1970630 test: 1788.8505810 best: 1788.8505810 (106) total: 2.11s remaining: 849ms
107: learn: 1788.7467483 test: 1787.5176669 best: 1787.5176669 (107) total: 2.13s remaining: 829ms
108: learn: 1787.2432280 test: 1786.0522499 best: 1786.0522499 (108) total: 2.15s remaining: 809ms
109: learn: 1785.5211069 test: 1784.7064491 best: 1784.7064491 (109) total: 2.17s remaining: 789ms

110: learn: 1784.4453257 test: 1783.7417812 best: 1783.7417812 (110) total: 2.19s remaining: 769ms
111: learn: 1783.3239274 test: 1782.9215920 best: 1782.9215920 (111) total: 2.21s remaining: 750ms
112: learn: 1782.1729916 test: 1782.1342853 best: 1782.1342853 (112) total: 2.23s remaining: 730ms
113: learn: 1781.2533948 test: 1781.1387551 best: 1781.1387551 (113) total: 2.25s remaining: 710ms
114: learn: 1779.0681193 test: 1779.1311708 best: 1779.1311708 (114) total: 2.27s remaining: 690ms
115: learn: 1777.7833436 test: 1777.9413384 best: 1777.9413384 (115) total: 2.28s remaining: 670ms
116: learn: 1776.4478238 test: 1776.9050358 best: 1776.9050358 (116) total: 2.3s remaining: 650ms
117: learn: 1775.1462055 test: 1775.6203664 best: 1775.6203664 (117) total: 2.32s remaining: 630ms
118: learn: 1773.8174657 test: 1774.4578118 best: 1774.4578118 (118) total: 2.34s remaining: 609ms
119: learn: 1772.6846428 test: 1773.2087572 best: 1773.2087572 (119) total: 2.36s remaining: 589ms
120: learn: 1771.6985387 test: 1772.2354515 best: 1772.2354515 (120) total: 2.37s remaining: 569ms
121: learn: 1771.0307991 test: 1771.6337845 best: 1771.6337845 (121) total: 2.39s remaining: 548ms
122: learn: 1769.8605592 test: 1770.6145844 best: 1770.6145844 (122) total: 2.41s remaining: 529ms
123: learn: 1768.6955266 test: 1769.8124442 best: 1769.8124442 (123) total: 2.43s remaining: 509ms
124: learn: 1767.7526376 test: 1769.0314692 best: 1769.0314692 (124) total: 2.45s remaining: 489ms
125: learn: 1766.4881512 test: 1768.1750366 best: 1768.1750366 (125) total: 2.46s remaining: 469ms
126: learn: 1765.4964798 test: 1767.1001139 best: 1767.1001139 (126) total: 2.48s remaining: 449ms
127: learn: 1764.3922886 test: 1766.1509301 best: 1766.1509301 (127) total: 2.5s remaining: 430ms
128: learn: 1763.0000310 test: 1764.9145880 best: 1764.9145880 (128) total: 2.52s remaining: 411ms
129: learn: 1761.8880411 test: 1763.9951880 best: 1763.9951880 (129) total: 2.54s remaining: 391ms
130: learn: 1760.6502260 test: 1762.9417579 best: 1762.9417579 (130) total: 2.56s remaining: 371ms
131: learn: 1759.0133790 test: 1761.4655958 best: 1761.4655958 (131) total: 2.58s remaining: 352ms
132: learn: 1757.7441986 test: 1760.2022992 best: 1760.2022992 (132) total: 2.6s remaining: 332ms
133: learn: 1756.8828647 test: 1759.2944337 best: 1759.2944337 (133) total: 2.62s remaining: 313ms
134: learn: 1755.3616625 test: 1758.1428177 best: 1758.1428177 (134) total: 2.64s remaining: 293ms
135: learn: 1754.4327599 test: 1757.4977872 best: 1757.4977872 (135) total: 2.66s remaining: 274ms
136: learn: 1752.9739031 test: 1756.6327970 best: 1756.6327970 (136) total: 2.68s remaining: 255ms
137: learn: 1751.8431422 test: 1755.3863630 best: 1755.3863630 (137) total: 2.71s remaining: 235ms
138: learn: 1750.9788456 test: 1754.5543781 best: 1754.5543781 (138) total: 2.73s remaining: 216ms
139: learn: 1748.9200045 test: 1752.6926759 best: 1752.6926759 (139) total: 2.75s remaining: 196ms
140: learn: 1747.7564482 test: 1751.5708277 best: 1751.5708277 (140) total: 2.77s remaining: 177ms
141: learn: 1746.5555650 test: 1750.3628474 best: 1750.3628474 (141) total: 2.79s remaining: 157ms
142: learn: 1745.6298288 test: 1749.7100351 best: 1749.7100351 (142) total: 2.81s remaining: 138ms
143: learn: 1744.8020880 test: 1749.1592528 best: 1749.1592528 (143) total: 2.83s remaining: 118ms
144: learn: 1744.1535926 test: 1748.4463576 best: 1748.4463576 (144) total: 2.85s remaining: 98.2ms
145: learn: 1742.9683052 test: 1747.4333476 best: 1747.4333476 (145) total: 2.87s remaining: 78.5ms
146: learn: 1741.7395305 test: 1746.6882483 best: 1746.6882483 (146) total: 2.89s remaining: 58.9ms
147: learn: 1741.1564538 test: 1746.1582633 best: 1746.1582633 (147) total: 2.9s remaining: 39.3ms
148: learn: 1740.2479487 test: 1745.3263688 best: 1745.3263688 (148) total: 2.92s remaining: 19.6ms
149: learn: 1739.0030194 test: 1744.2271924 best: 1744.2271924 (149) total: 2.94s remaining: 0us

bestTest = 1744.227192

bestIteration = 149

63: loss: 1744.2271924 best: 1741.3311752 (57) total: 2m 30s remaining: 1m 15s
0: learn: 6804.5612021 test: 6832.1518187 best: 6832.1518187 (0) total: 21.9ms remaining: 4.36s
1: learn: 6635.9072011 test: 6663.3119347 best: 6663.3119347 (1) total: 45.9ms remaining: 4.55s
2: learn: 6471.8964804 test: 6499.4334415 best: 6499.4334415 (2) total: 65.4ms remaining: 4.29s
3: learn: 6311.0186572 test: 6338.1499885 best: 6338.1499885 (3) total: 85.2ms remaining: 4.17s
4: learn: 6157.4860930 test: 6184.3781802 best: 6184.3781802 (4) total: 106ms remaining: 4.12s
5: learn: 6007.8230759 test: 6034.6949215 best: 6034.6949215 (5) total: 125ms remaining: 4.05s
6: learn: 5862.8958290 test: 5889.7365318 best: 5889.7365318 (6) total: 147ms remaining: 4.05s
7: learn: 5723.0042769 test: 5749.6073944 best: 5749.6073944 (7) total: 167ms remaining: 4s
8: learn: 5587.8935436 test: 5613.8942951 best: 5613.8942951 (8) total: 186ms remaining: 3.94s
9: learn: 5457.5123889 test: 5483.3485196 best: 5483.3485196 (9) total: 205ms remaining: 3.9s
10: learn: 5331.8883012 test: 5357.5295375 best: 5357.5295375 (10) total: 225ms remaining: 3.86s
11: learn: 5209.4517141 test: 5234.5889502 best: 5234.5889502 (11) total: 251ms remaining: 3.93s
12: learn: 5092.3169447 test: 5117.2985474 best: 5117.2985474 (12) total: 272ms remaining: 3.92s
13: learn: 4977.0879034 test: 5001.7619413 best: 5001.7619413 (13) total: 292ms remaining: 3.88s
14: learn: 4867.2662687 test: 4891.3801532 best: 4891.3801532 (14) total: 312ms remaining: 3.84s
15: learn: 4762.5950120 test: 4786.1038613 best: 4786.1038613 (15) total: 332ms remaining: 3.82s
16: learn: 4660.3708172 test: 4683.6653039 best: 4683.6653039 (16) total: 352ms remaining: 3.79s
17: learn: 4565.1218285 test: 4588.4880786 best: 4588.4880786 (17) total: 372ms remaining: 3.76s
18: learn: 4468.5790812 test: 4491.8082970 best: 4491.8082970 (18) total: 392ms remaining: 3.73s
19: learn: 4375.4412614 test: 4398.2708795 best: 4398.2708795 (19) total: 412ms remaining: 3.71s
20: learn: 4287.8873926 test: 4310.5037113 best: 4310.5037113 (20) total: 438ms remaining: 3.73s
21: learn: 4203.4600076 test: 4225.4460508 best: 4225.4460508 (21) total: 458ms remaining: 3.7s
22: learn: 4120.5259736 test: 4142.1130818 best: 4142.1130818 (22) total: 476ms remaining: 3.66s
23: learn: 4042.4858484 test: 4063.4379100 best: 4063.4379100 (23) total: 496ms remaining: 3.64s
24: learn: 3965.5624986 test: 3986.1718694 best: 3986.1718694 (24) total: 516ms remaining: 3.61s
25: learn: 3893.2921850 test: 3913.5829988 best: 3913.5829988 (25) total: 539ms remaining: 3.6s
26: learn: 3821.1303096 test: 3840.9003612 best: 3840.9003612 (26) total: 559ms remaining: 3.58s
27: learn: 3750.8291273 test: 3770.1936610 best: 3770.1936610 (27) total: 580ms remaining: 3.56s
28: learn: 3684.9395562 test: 3704.0804700 best: 3704.0804700 (28) total: 600ms remaining: 3.54s
29: learn: 3622.0309539 test: 3640.6438362 best: 3640.6438362 (29) total: 621ms remaining: 3.52s
30: learn: 3559.3872273 test: 3577.5910502 best: 3577.5910502 (30) total: 643ms remaining: 3.5s
31: learn: 3499.4576058 test: 3517.2702857 best: 3517.2702857 (31) total: 663ms remaining: 3.48s
32: learn: 3442.6060372 test: 3459.8220877 best: 3459.8220877 (32) total: 683ms remaining: 3.45s
33: learn: 3388.3555594 test: 3405.3432761 best: 3405.3432761 (33) total: 701ms remaining: 3.42s
34: learn: 3335.4491080 test: 3352.1923331 best: 3352.1923331 (34) total: 720ms remaining: 3.39s
35: learn: 3284.1396480 test: 3300.3162036 best: 3300.3162036 (35) total: 742ms remaining: 3.38s
36: learn: 3235.6638090 test: 3251.4084671 best: 3251.4084671 (36) total: 762ms remaining: 3.35s
37: learn: 3188.2564252 test: 3202.4770571 best: 3202.4770571 (37) total: 781ms remaining: 3.32s

37: learn: 3188.2564298 test: 3203.4779571 best: 3203.4779571 (37) total: 781ms remaining: 3.33s
38: learn: 3144.3489099 test: 3159.1324862 best: 3159.1324862 (38) total: 800ms remaining: 3.3s
39: learn: 3101.6130065 test: 3116.0168362 best: 3116.0168362 (39) total: 821ms remaining: 3.28s
40: learn: 3060.0538543 test: 3074.2342627 best: 3074.2342627 (40) total: 848ms remaining: 3.29s
41: learn: 3020.2461523 test: 3033.7844790 best: 3033.7844790 (41) total: 868ms remaining: 3.27s
42: learn: 2980.7431489 test: 2994.0879501 best: 2994.0879501 (42) total: 888ms remaining: 3.24s
43: learn: 2944.7226147 test: 2957.8184334 best: 2957.8184334 (43) total: 907ms remaining: 3.22s
44: learn: 2910.0107994 test: 2922.7023162 best: 2922.7023162 (44) total: 926ms remaining: 3.19s
45: learn: 2876.8403616 test: 2889.2157432 best: 2889.2157432 (45) total: 949ms remaining: 3.18s
46: learn: 2844.4619315 test: 2856.2496452 best: 2856.2496452 (46) total: 968ms remaining: 3.15s
47: learn: 2813.9348523 test: 2825.6042869 best: 2825.6042869 (47) total: 987ms remaining: 3.12s
48: learn: 2783.7205012 test: 2794.7730384 best: 2794.7730384 (48) total: 1s remaining: 3.1s
49: learn: 2755.2829758 test: 2765.7993809 best: 2765.7993809 (49) total: 1.02s remaining: 3.08s
50: learn: 2727.9243666 test: 2737.7051874 best: 2737.7051874 (50) total: 1.05s remaining: 3.06s
51: learn: 2701.0597194 test: 2710.0595102 best: 2710.0595102 (51) total: 1.06s remaining: 3.03s
52: learn: 2675.6769330 test: 2684.1847165 best: 2684.1847165 (52) total: 1.08s remaining: 3.01s
53: learn: 2651.8029342 test: 2659.9886661 best: 2659.9886661 (53) total: 1.1s remaining: 2.98s
54: learn: 2628.1449476 test: 2635.8194029 best: 2635.8194029 (54) total: 1.12s remaining: 2.96s
55: learn: 2605.6994495 test: 2612.8170890 best: 2612.8170890 (55) total: 1.15s remaining: 2.95s
56: learn: 2583.9826867 test: 2590.5554525 best: 2590.5554525 (56) total: 1.16s remaining: 2.92s
57: learn: 2562.9729179 test: 2569.0847052 best: 2569.0847052 (57) total: 1.18s remaining: 2.9s
58: learn: 2542.0982434 test: 2547.7834261 best: 2547.7834261 (58) total: 1.2s remaining: 2.87s
59: learn: 2523.1313185 test: 2528.5402456 best: 2528.5402456 (59) total: 1.22s remaining: 2.85s
60: learn: 2504.5138502 test: 2509.4883999 best: 2509.4883999 (60) total: 1.25s remaining: 2.84s
61: learn: 2487.2495449 test: 2491.9190422 best: 2491.9190422 (61) total: 1.27s remaining: 2.83s
62: learn: 2469.7670396 test: 2473.9973531 best: 2473.9973531 (62) total: 1.29s remaining: 2.81s
63: learn: 2452.6816976 test: 2456.5235514 best: 2456.5235514 (63) total: 1.31s remaining: 2.78s
64: learn: 2437.0365486 test: 2440.4743384 best: 2440.4743384 (64) total: 1.34s remaining: 2.77s
65: learn: 2421.3578449 test: 2424.4767704 best: 2424.4767704 (65) total: 1.35s remaining: 2.75s
66: learn: 2406.2671952 test: 2408.9644224 best: 2408.9644224 (66) total: 1.37s remaining: 2.73s
67: learn: 2392.5189373 test: 2394.8477054 best: 2394.8477054 (67) total: 1.39s remaining: 2.7s
68: learn: 2379.1974051 test: 2381.1502976 best: 2381.1502976 (68) total: 1.41s remaining: 2.68s
69: learn: 2365.5696068 test: 2367.2423310 best: 2367.2423310 (69) total: 1.43s remaining: 2.66s
70: learn: 2352.5219824 test: 2353.7861684 best: 2353.7861684 (70) total: 1.45s remaining: 2.64s
71: learn: 2340.4113668 test: 2341.3690012 best: 2341.3690012 (71) total: 1.47s remaining: 2.61s
72: learn: 2328.3048226 test: 2328.9564415 best: 2328.9564415 (72) total: 1.49s remaining: 2.59s
73: learn: 2317.1880243 test: 2317.5690381 best: 2317.5690381 (73) total: 1.51s remaining: 2.57s
74: learn: 2306.0507874 test: 2306.2651589 best: 2306.2651589 (74) total: 1.53s remaining: 2.55s
75: learn: 2293.6630861 test: 2293.6037970 best: 2293.6037970 (75) total: 1.55s remaining: 2.53s
76: learn: 2282.5510893 test: 2282.2074727 best: 2282.2074727 (76) total: 1.57s remaining: 2.51s
77: learn: 2271.0164593 test: 2270.4621679 best: 2270.4621679 (77) total: 1.59s remaining: 2.48s
78: learn: 2261.5038092 test: 2260.6808649 best: 2260.6808649 (78) total: 1.61s remaining: 2.46s

79: learn: 2252.0808992 test: 2251.0694866 best: 2251.0694866 (79) total: 1.63s remaining: 2.44s
80: learn: 2242.0009865 test: 2240.8101373 best: 2240.8101373 (80) total: 1.65s remaining: 2.42s
81: learn: 2233.2974710 test: 2232.0590538 best: 2232.0590538 (81) total: 1.67s remaining: 2.4s
82: learn: 2224.7662483 test: 2223.2954722 best: 2223.2954722 (82) total: 1.68s remaining: 2.38s
83: learn: 2216.8571824 test: 2215.2751891 best: 2215.2751891 (83) total: 1.7s remaining: 2.35s
84: learn: 2208.7930741 test: 2206.7452011 best: 2206.7452011 (84) total: 1.72s remaining: 2.33s
85: learn: 2201.1837940 test: 2198.9550362 best: 2198.9550362 (85) total: 1.74s remaining: 2.31s
86: learn: 2192.8632696 test: 2190.2791322 best: 2190.2791322 (86) total: 1.76s remaining: 2.29s
87: learn: 2186.2869251 test: 2183.4165102 best: 2183.4165102 (87) total: 1.78s remaining: 2.27s
88: learn: 2179.6103931 test: 2176.3250262 best: 2176.3250262 (88) total: 1.8s remaining: 2.24s
89: learn: 2172.5205335 test: 2169.0823958 best: 2169.0823958 (89) total: 1.82s remaining: 2.22s
90: learn: 2165.8219903 test: 2162.0908842 best: 2162.0908842 (90) total: 1.84s remaining: 2.21s
91: learn: 2158.0859151 test: 2154.1825778 best: 2154.1825778 (91) total: 1.86s remaining: 2.19s
92: learn: 2151.6327872 test: 2147.4596342 best: 2147.4596342 (92) total: 1.88s remaining: 2.17s
93: learn: 2145.7392469 test: 2141.4625839 best: 2141.4625839 (93) total: 1.9s remaining: 2.15s
94: learn: 2139.9357124 test: 2135.4650445 best: 2135.4650445 (94) total: 1.93s remaining: 2.13s
95: learn: 2134.4135800 test: 2129.8752555 best: 2129.8752555 (95) total: 1.95s remaining: 2.11s
96: learn: 2129.0797392 test: 2124.2790467 best: 2124.2790467 (96) total: 1.97s remaining: 2.09s
97: learn: 2123.6816906 test: 2118.7773260 best: 2118.7773260 (97) total: 1.99s remaining: 2.07s
98: learn: 2118.0448915 test: 2112.9487727 best: 2112.9487727 (98) total: 2.01s remaining: 2.05s
99: learn: 2113.2825687 test: 2108.0455614 best: 2108.0455614 (99) total: 2.03s remaining: 2.03s
100: learn: 2107.6772164 test: 2102.5637305 best: 2102.5637305 (100) total: 2.05s remaining: 2.01s
101: learn: 2102.9805383 test: 2097.6092053 best: 2097.6092053 (101) total: 2.07s remaining: 1.99s
102: learn: 2097.9882688 test: 2092.4952489 best: 2092.4952489 (102) total: 2.08s remaining: 1.96s
103: learn: 2092.8735650 test: 2087.3091925 best: 2087.3091925 (103) total: 2.1s remaining: 1.94s
104: learn: 2088.5159736 test: 2082.7448558 best: 2082.7448558 (104) total: 2.13s remaining: 1.93s
105: learn: 2083.5463696 test: 2077.5925525 best: 2077.5925525 (105) total: 2.15s remaining: 1.91s
106: learn: 2079.3602635 test: 2073.3921644 best: 2073.3921644 (106) total: 2.17s remaining: 1.89s
107: learn: 2075.2793233 test: 2069.2949059 best: 2069.2949059 (107) total: 2.19s remaining: 1.86s
108: learn: 2070.7856404 test: 2064.6435665 best: 2064.6435665 (108) total: 2.21s remaining: 1.84s
109: learn: 2066.5850771 test: 2060.2494239 best: 2060.2494239 (109) total: 2.23s remaining: 1.82s
110: learn: 2061.8770403 test: 2055.4675879 best: 2055.4675879 (110) total: 2.25s remaining: 1.8s
111: learn: 2057.5949534 test: 2051.0951042 best: 2051.0951042 (111) total: 2.27s remaining: 1.78s
112: learn: 2054.1010917 test: 2047.5881924 best: 2047.5881924 (112) total: 2.29s remaining: 1.76s
113: learn: 2049.6543097 test: 2043.1213978 best: 2043.1213978 (113) total: 2.31s remaining: 1.74s
114: learn: 2045.9382975 test: 2039.1834406 best: 2039.1834406 (114) total: 2.33s remaining: 1.72s
115: learn: 2042.6920862 test: 2035.8994939 best: 2035.8994939 (115) total: 2.35s remaining: 1.7s
116: learn: 2039.4724242 test: 2032.7081792 best: 2032.7081792 (116) total: 2.37s remaining: 1.68s
117: learn: 2036.4630241 test: 2029.6985792 best: 2029.6985792 (117) total: 2.38s remaining: 1.66s
118: learn: 2033.6009596 test: 2026.8054885 best: 2026.8054885 (118) total: 2.4s remaining: 1.64s
119: learn: 2030.9648079 test: 2024.1416042 best: 2024.1416042 (119) total: 2.42s remaining: 1.61s

120: learn: 2028.2137263 test: 2021.2964862 best: 2021.2964862 (120) total: 2.44s remaining: 1.59s
121: learn: 2025.1027105 test: 2018.0847603 best: 2018.0847603 (121) total: 2.46s remaining: 1.57s
122: learn: 2022.3644226 test: 2015.0969446 best: 2015.0969446 (122) total: 2.48s remaining: 1.55s
123: learn: 2019.5868349 test: 2012.3320685 best: 2012.3320685 (123) total: 2.5s remaining: 1.53s
124: learn: 2016.9157524 test: 2009.5344147 best: 2009.5344147 (124) total: 2.52s remaining: 1.51s
125: learn: 2014.4055194 test: 2007.0632567 best: 2007.0632567 (125) total: 2.54s remaining: 1.49s
126: learn: 2011.5509971 test: 2004.0710485 best: 2004.0710485 (126) total: 2.56s remaining: 1.47s
127: learn: 2009.2348369 test: 2001.7028688 best: 2001.7028688 (127) total: 2.57s remaining: 1.45s
128: learn: 2006.7760495 test: 1999.1813018 best: 1999.1813018 (128) total: 2.59s remaining: 1.43s
129: learn: 2004.0014974 test: 1996.3581079 best: 1996.3581079 (129) total: 2.61s remaining: 1.41s
130: learn: 2001.6926030 test: 1994.1530473 best: 1994.1530473 (130) total: 2.63s remaining: 1.39s
131: learn: 1999.0495482 test: 1991.5131574 best: 1991.5131574 (131) total: 2.65s remaining: 1.36s
132: learn: 1996.6469373 test: 1989.0517410 best: 1989.0517410 (132) total: 2.67s remaining: 1.34s
133: learn: 1994.3337481 test: 1986.6612804 best: 1986.6612804 (133) total: 2.69s remaining: 1.32s
134: learn: 1992.0557510 test: 1984.3617745 best: 1984.3617745 (134) total: 2.71s remaining: 1.3s
135: learn: 1989.8844697 test: 1982.1035979 best: 1982.1035979 (135) total: 2.73s remaining: 1.28s
136: learn: 1986.2994963 test: 1978.3607848 best: 1978.3607848 (136) total: 2.75s remaining: 1.26s
137: learn: 1984.1717056 test: 1976.2854413 best: 1976.2854413 (137) total: 2.77s remaining: 1.24s
138: learn: 1981.6911557 test: 1973.7940906 best: 1973.7940906 (138) total: 2.79s remaining: 1.22s
139: learn: 1979.4904694 test: 1971.5155685 best: 1971.5155685 (139) total: 2.81s remaining: 1.2s
140: learn: 1977.1117340 test: 1969.0598064 best: 1969.0598064 (140) total: 2.83s remaining: 1.19s
141: learn: 1975.1539429 test: 1967.3008063 best: 1967.3008063 (141) total: 2.86s remaining: 1.17s
142: learn: 1973.2139463 test: 1965.2502822 best: 1965.2502822 (142) total: 2.88s remaining: 1.15s
143: learn: 1971.1953516 test: 1963.3524680 best: 1963.3524680 (143) total: 2.9s remaining: 1.13s
144: learn: 1968.2873295 test: 1960.4371545 best: 1960.4371545 (144) total: 2.92s remaining: 1.11s
145: learn: 1966.1318516 test: 1958.1681440 best: 1958.1681440 (145) total: 2.94s remaining: 1.09s
146: learn: 1964.1325532 test: 1956.2268116 best: 1956.2268116 (146) total: 2.96s remaining: 1.06s
147: learn: 1962.5962540 test: 1954.7888591 best: 1954.7888591 (147) total: 2.97s remaining: 1.04s
148: learn: 1960.6195785 test: 1952.7931319 best: 1952.7931319 (148) total: 2.99s remaining: 1.02s
149: learn: 1958.9151125 test: 1951.2949674 best: 1951.2949674 (149) total: 3.02s remaining: 1s
150: learn: 1957.3307011 test: 1949.6906479 best: 1949.6906479 (150) total: 3.04s remaining: 985ms
151: learn: 1955.8810603 test: 1948.2932062 best: 1948.2932062 (151) total: 3.05s remaining: 964ms
152: learn: 1954.2580130 test: 1946.6626155 best: 1946.6626155 (152) total: 3.07s remaining: 944ms
153: learn: 1952.2211019 test: 1944.6838660 best: 1944.6838660 (153) total: 3.09s remaining: 924ms
154: learn: 1950.7579635 test: 1943.3143420 best: 1943.3143420 (154) total: 3.11s remaining: 904ms
155: learn: 1949.2056018 test: 1941.6073032 best: 1941.6073032 (155) total: 3.13s remaining: 883ms
156: learn: 1947.4392339 test: 1939.8158681 best: 1939.8158681 (156) total: 3.15s remaining: 863ms
157: learn: 1944.8794814 test: 1937.3174244 best: 1937.3174244 (157) total: 3.17s remaining: 843ms
158: learn: 1943.3532482 test: 1935.8543853 best: 1935.8543853 (158) total: 3.19s remaining: 823ms
159: learn: 1941.5562090 test: 1934.1624227 best: 1934.1624227 (159) total: 3.21s remaining: 803ms
160: learn: 1940.0337445 test: 1932.5886002 best: 1932.5886002 (160) total: 3.23s remaining: 783ms

161: learn: 1938.3524787 test: 1930.8118967 best: 1930.8118967 (161) total: 3.25s remaining: 763ms
162: learn: 1936.9556717 test: 1929.4410703 best: 1929.4410703 (162) total: 3.27s remaining: 742ms
163: learn: 1935.7295715 test: 1928.4044870 best: 1928.4044870 (163) total: 3.29s remaining: 722ms
164: learn: 1934.0041677 test: 1926.6254786 best: 1926.6254786 (164) total: 3.31s remaining: 703ms
165: learn: 1932.6217945 test: 1925.2962668 best: 1925.2962668 (165) total: 3.33s remaining: 682ms
166: learn: 1930.9160035 test: 1923.6539541 best: 1923.6539541 (166) total: 3.35s remaining: 662ms
167: learn: 1928.3865350 test: 1921.0472157 best: 1921.0472157 (167) total: 3.37s remaining: 642ms
168: learn: 1926.4548462 test: 1918.9869058 best: 1918.9869058 (168) total: 3.39s remaining: 623ms
169: learn: 1924.1978541 test: 1917.0523228 best: 1917.0523228 (169) total: 3.42s remaining: 603ms
170: learn: 1922.3779655 test: 1915.1370005 best: 1915.1370005 (170) total: 3.44s remaining: 583ms
171: learn: 1920.5232328 test: 1913.2719027 best: 1913.2719027 (171) total: 3.46s remaining: 563ms
172: learn: 1919.3679354 test: 1912.2958275 best: 1912.2958275 (172) total: 3.48s remaining: 543ms
173: learn: 1917.8287730 test: 1910.9213353 best: 1910.9213353 (173) total: 3.5s remaining: 522ms
174: learn: 1916.5106007 test: 1909.5315239 best: 1909.5315239 (174) total: 3.52s remaining: 502ms
175: learn: 1914.8697284 test: 1907.9039029 best: 1907.9039029 (175) total: 3.54s remaining: 482ms
176: learn: 1913.4338913 test: 1906.6603092 best: 1906.6603092 (176) total: 3.55s remaining: 462ms
177: learn: 1912.2118483 test: 1905.4178289 best: 1905.4178289 (177) total: 3.57s remaining: 441ms
178: learn: 1910.6427348 test: 1903.8252783 best: 1903.8252783 (178) total: 3.59s remaining: 421ms
179: learn: 1909.5734888 test: 1902.7325340 best: 1902.7325340 (179) total: 3.61s remaining: 402ms
180: learn: 1908.5191969 test: 1901.7112368 best: 1901.7112368 (180) total: 3.63s remaining: 381ms
181: learn: 1907.5535127 test: 1900.5418804 best: 1900.5418804 (181) total: 3.65s remaining: 361ms
182: learn: 1906.5045762 test: 1899.4753932 best: 1899.4753932 (182) total: 3.67s remaining: 341ms
183: learn: 1905.1373888 test: 1898.0588755 best: 1898.0588755 (183) total: 3.69s remaining: 321ms
184: learn: 1904.1436256 test: 1897.2158787 best: 1897.2158787 (184) total: 3.71s remaining: 301ms
185: learn: 1902.4083324 test: 1895.6199731 best: 1895.6199731 (185) total: 3.73s remaining: 281ms
186: learn: 1901.3809073 test: 1894.5635562 best: 1894.5635562 (186) total: 3.75s remaining: 261ms
187: learn: 1900.4395883 test: 1893.5081400 best: 1893.5081400 (187) total: 3.77s remaining: 241ms
188: learn: 1899.2260506 test: 1892.3076096 best: 1892.3076096 (188) total: 3.79s remaining: 221ms
189: learn: 1897.4864005 test: 1890.6124977 best: 1890.6124977 (189) total: 3.82s remaining: 201ms
190: learn: 1896.5045150 test: 1889.6449019 best: 1889.6449019 (190) total: 3.83s remaining: 181ms
191: learn: 1895.5134938 test: 1888.7415606 best: 1888.7415606 (191) total: 3.85s remaining: 161ms
192: learn: 1894.6231440 test: 1887.7850456 best: 1887.7850456 (192) total: 3.87s remaining: 140ms
193: learn: 1893.4713733 test: 1886.5790459 best: 1886.5790459 (193) total: 3.89s remaining: 120ms
194: learn: 1891.8717127 test: 1884.8279031 best: 1884.8279031 (194) total: 3.91s remaining: 100ms
195: learn: 1890.8939145 test: 1883.8818447 best: 1883.8818447 (195) total: 3.93s remaining: 80.2ms
196: learn: 1889.5156747 test: 1882.5170594 best: 1882.5170594 (196) total: 3.95s remaining: 60.1ms
197: learn: 1888.3067758 test: 1881.3663777 best: 1881.3663777 (197) total: 3.96s remaining: 40.1ms
198: learn: 1887.2787116 test: 1880.2867578 best: 1880.2867578 (198) total: 3.98s remaining: 20ms
199: learn: 1886.5243353 test: 1879.7160196 best: 1879.7160196 (199) total: 4.01s remaining: 0us

bestTest = 1879.71602

bestIteration = 199

bestIteration = 155

64: loss: 1879.7160196 best: 1741.3311752 (57) total: 2m 34s remaining: 1m 13s
0: learn: 6393.6683215 test: 6420.0788713 best: 6420.0788713 (0) total: 20.4ms remaining: 4.06s
1: learn: 5880.7661970 test: 5906.6708360 best: 5906.6708360 (1) total: 39.7ms remaining: 3.93s
2: learn: 5412.1284567 test: 5437.8372776 best: 5437.8372776 (2) total: 59.4ms remaining: 3.9s
3: learn: 5002.1028345 test: 5027.0492732 best: 5027.0492732 (3) total: 79.9ms remaining: 3.92s
4: learn: 4639.4152616 test: 4663.2663912 best: 4663.2663912 (4) total: 100ms remaining: 3.91s
5: learn: 4317.6965705 test: 4340.9483172 best: 4340.9483172 (5) total: 121ms remaining: 3.91s
6: learn: 4028.6557988 test: 4050.4034335 best: 4050.4034335 (6) total: 140ms remaining: 3.85s
7: learn: 3773.5612783 test: 3794.1905463 best: 3794.1905463 (7) total: 158ms remaining: 3.79s
8: learn: 3552.2443661 test: 3570.9005814 best: 3570.9005814 (8) total: 177ms remaining: 3.77s
9: learn: 3357.9209897 test: 3376.0619296 best: 3376.0619296 (9) total: 202ms remaining: 3.83s
10: learn: 3189.7096310 test: 3205.9776836 best: 3205.9776836 (10) total: 222ms remaining: 3.81s
11: learn: 3041.8550902 test: 3056.4804548 best: 3056.4804548 (11) total: 246ms remaining: 3.85s
12: learn: 2919.0601519 test: 2932.4405524 best: 2932.4405524 (12) total: 266ms remaining: 3.83s
13: learn: 2803.1109467 test: 2815.4329311 best: 2815.4329311 (13) total: 286ms remaining: 3.8s
14: learn: 2705.7633348 test: 2715.9570922 best: 2715.9570922 (14) total: 307ms remaining: 3.78s
15: learn: 2620.3703734 test: 2628.7397901 best: 2628.7397901 (15) total: 325ms remaining: 3.74s
16: learn: 2545.2130937 test: 2552.4355260 best: 2552.4355260 (16) total: 343ms remaining: 3.7s
17: learn: 2481.6566370 test: 2487.1433481 best: 2487.1433481 (17) total: 363ms remaining: 3.67s
18: learn: 2426.7886137 test: 2431.4233666 best: 2431.4233666 (18) total: 385ms remaining: 3.67s
19: learn: 2378.8526848 test: 2381.7550125 best: 2381.7550125 (19) total: 403ms remaining: 3.63s
20: learn: 2335.7471057 test: 2337.7378652 best: 2337.7378652 (20) total: 422ms remaining: 3.6s
21: learn: 2296.6059667 test: 2297.4442296 best: 2297.4442296 (21) total: 440ms remaining: 3.56s
22: learn: 2262.0164022 test: 2261.2300432 best: 2261.2300432 (22) total: 458ms remaining: 3.53s
23: learn: 2231.4587618 test: 2230.0128231 best: 2230.0128231 (23) total: 478ms remaining: 3.5s
24: learn: 2205.8578095 test: 2203.4692544 best: 2203.4692544 (24) total: 499ms remaining: 3.5s
25: learn: 2181.8713903 test: 2179.0574718 best: 2179.0574718 (25) total: 519ms remaining: 3.47s
26: learn: 2161.2733850 test: 2157.3817264 best: 2157.3817264 (26) total: 538ms remaining: 3.44s
27: learn: 2142.2764132 test: 2138.2172091 best: 2138.2172091 (27) total: 556ms remaining: 3.42s
28: learn: 2118.8750754 test: 2114.6018645 best: 2114.6018645 (28) total: 575ms remaining: 3.39s
29: learn: 2103.5371318 test: 2098.9924029 best: 2098.9924029 (29) total: 595ms remaining: 3.37s
30: learn: 2087.9980356 test: 2082.7007655 best: 2082.7007655 (30) total: 613ms remaining: 3.34s
31: learn: 2070.9059790 test: 2064.7534974 best: 2064.7534974 (31) total: 632ms remaining: 3.32s
32: learn: 2059.5302615 test: 2053.6878232 best: 2053.6878232 (32) total: 651ms remaining: 3.29s
33: learn: 2047.1252621 test: 2040.8984885 best: 2040.8984885 (33) total: 669ms remaining: 3.27s
34: learn: 2032.6729282 test: 2025.9895232 best: 2025.9895232 (34) total: 693ms remaining: 3.27s
35: learn: 2023.0652606 test: 2016.6085194 best: 2016.6085194 (35) total: 712ms remaining: 3.24s
36: learn: 2014.3521926 test: 2007.8840086 best: 2007.8840086 (36) total: 731ms remaining: 3.22s
37: learn: 2006.0704962 test: 1999.2618614 best: 1999.2618614 (37) total: 749ms remaining: 3.19s
38: learn: 1998.5401108 test: 1991.7512797 best: 1991.7512797 (38) total: 768ms remaining: 3.17s

39: learn: 1986.9315932 test: 1979.6615047 best: 1979.6615047 (39) total: 790ms remaining: 3.16s
40: learn: 1980.5514847 test: 1973.2371641 best: 1973.2371641 (40) total: 809ms remaining: 3.14s
41: learn: 1971.8334006 test: 1964.5024975 best: 1964.5024975 (41) total: 829ms remaining: 3.12s
42: learn: 1964.7855708 test: 1957.0961273 best: 1957.0961273 (42) total: 849ms remaining: 3.1s
43: learn: 1958.5305973 test: 1950.8385928 best: 1950.8385928 (43) total: 868ms remaining: 3.08s
44: learn: 1952.8354640 test: 1944.9209626 best: 1944.9209626 (44) total: 890ms remaining: 3.06s
45: learn: 1946.8092463 test: 1938.6877116 best: 1938.6877116 (45) total: 909ms remaining: 3.04s
46: learn: 1941.3923700 test: 1933.6714248 best: 1933.6714248 (46) total: 928ms remaining: 3.02s
47: learn: 1937.0437250 test: 1929.3526147 best: 1929.3526147 (47) total: 946ms remaining: 3s
48: learn: 1930.1734760 test: 1922.4349756 best: 1922.4349756 (48) total: 966ms remaining: 2.98s
49: learn: 1925.3261263 test: 1917.4016831 best: 1917.4016831 (49) total: 986ms remaining: 2.96s
50: learn: 1921.2478583 test: 1913.6410503 best: 1913.6410503 (50) total: 1s remaining: 2.93s
51: learn: 1914.5127228 test: 1907.7037402 best: 1907.7037402 (51) total: 1.02s remaining: 2.92s
52: learn: 1911.1105975 test: 1904.4964910 best: 1904.4964910 (52) total: 1.04s remaining: 2.89s
53: learn: 1907.7982643 test: 1901.1269033 best: 1901.1269033 (53) total: 1.06s remaining: 2.87s
54: learn: 1904.7956015 test: 1898.2015948 best: 1898.2015948 (54) total: 1.08s remaining: 2.86s
55: learn: 1900.3859350 test: 1893.5231529 best: 1893.5231529 (55) total: 1.1s remaining: 2.84s
56: learn: 1896.3304700 test: 1889.6190806 best: 1889.6190806 (56) total: 1.12s remaining: 2.82s
57: learn: 1891.7128011 test: 1884.8963136 best: 1884.8963136 (57) total: 1.14s remaining: 2.8s
58: learn: 1889.0431735 test: 1882.8758049 best: 1882.8758049 (58) total: 1.16s remaining: 2.78s
59: learn: 1884.6572319 test: 1878.3244370 best: 1878.3244370 (59) total: 1.18s remaining: 2.76s
60: learn: 1879.7775296 test: 1873.4690499 best: 1873.4690499 (60) total: 1.2s remaining: 2.74s
61: learn: 1876.9233524 test: 1870.4132789 best: 1870.4132789 (61) total: 1.22s remaining: 2.72s
62: learn: 1873.6397489 test: 1867.3546087 best: 1867.3546087 (62) total: 1.24s remaining: 2.7s
63: learn: 1871.2406321 test: 1865.2699514 best: 1865.2699514 (63) total: 1.26s remaining: 2.67s
64: learn: 1868.3465709 test: 1862.8325043 best: 1862.8325043 (64) total: 1.28s remaining: 2.66s
65: learn: 1866.3324756 test: 1860.9752071 best: 1860.9752071 (65) total: 1.3s remaining: 2.63s
66: learn: 1864.0026805 test: 1858.8354747 best: 1858.8354747 (66) total: 1.31s remaining: 2.61s
67: learn: 1861.6382583 test: 1856.5388546 best: 1856.5388546 (67) total: 1.33s remaining: 2.59s
68: learn: 1858.8274336 test: 1853.7302159 best: 1853.7302159 (68) total: 1.35s remaining: 2.57s
69: learn: 1856.5586930 test: 1851.6652603 best: 1851.6652603 (69) total: 1.38s remaining: 2.56s
70: learn: 1853.9655898 test: 1849.0785196 best: 1849.0785196 (70) total: 1.4s remaining: 2.53s
71: learn: 1849.4269779 test: 1844.4298164 best: 1844.4298164 (71) total: 1.41s remaining: 2.52s
72: learn: 1847.5244065 test: 1842.3819971 best: 1842.3819971 (72) total: 1.43s remaining: 2.49s
73: learn: 1845.3226823 test: 1840.1532801 best: 1840.1532801 (73) total: 1.45s remaining: 2.47s
74: learn: 1842.8413795 test: 1837.8333551 best: 1837.8333551 (74) total: 1.47s remaining: 2.45s
75: learn: 1839.4042511 test: 1835.0267228 best: 1835.0267228 (75) total: 1.49s remaining: 2.43s
76: learn: 1838.0078394 test: 1833.9169119 best: 1833.9169119 (76) total: 1.51s remaining: 2.41s
77: learn: 1836.6960672 test: 1832.4131564 best: 1832.4131564 (77) total: 1.52s remaining: 2.38s
78: learn: 1835.2139034 test: 1831.3444619 best: 1831.3444619 (78) total: 1.54s remaining: 2.36s
79: learn: 1832.4118997 test: 1829.2094653 best: 1829.2094653 (79) total: 1.56s remaining: 2.34s

80: learn: 1829.7348850 test: 1827.1949229 best: 1827.1949229 (80) total: 1.58s remaining: 2.32s
81: learn: 1828.1768289 test: 1825.5131797 best: 1825.5131797 (81) total: 1.6s remaining: 2.3s
82: learn: 1824.4299973 test: 1822.0200988 best: 1822.0200988 (82) total: 1.62s remaining: 2.28s
83: learn: 1823.0816791 test: 1820.8259657 best: 1820.8259657 (83) total: 1.64s remaining: 2.26s
84: learn: 1821.0351697 test: 1818.7947445 best: 1818.7947445 (84) total: 1.66s remaining: 2.24s
85: learn: 1819.5573281 test: 1817.3927410 best: 1817.3927410 (85) total: 1.68s remaining: 2.23s
86: learn: 1818.2616658 test: 1816.0826067 best: 1816.0826067 (86) total: 1.7s remaining: 2.21s
87: learn: 1816.0677428 test: 1813.9326796 best: 1813.9326796 (87) total: 1.72s remaining: 2.19s
88: learn: 1814.7723742 test: 1812.7149739 best: 1812.7149739 (88) total: 1.74s remaining: 2.17s
89: learn: 1812.2677669 test: 1810.6179296 best: 1810.6179296 (89) total: 1.76s remaining: 2.15s
90: learn: 1810.6885182 test: 1809.1725982 best: 1809.1725982 (90) total: 1.78s remaining: 2.13s
91: learn: 1808.2627170 test: 1806.8400879 best: 1806.8400879 (91) total: 1.8s remaining: 2.11s
92: learn: 1806.2334154 test: 1804.8309374 best: 1804.8309374 (92) total: 1.81s remaining: 2.09s
93: learn: 1804.6404634 test: 1803.6400405 best: 1803.6400405 (93) total: 1.83s remaining: 2.07s
94: learn: 1803.0230184 test: 1802.0903276 best: 1802.0903276 (94) total: 1.85s remaining: 2.05s
95: learn: 1801.1658474 test: 1800.4207030 best: 1800.4207030 (95) total: 1.88s remaining: 2.03s
96: learn: 1799.2493007 test: 1798.8969393 best: 1798.8969393 (96) total: 1.9s remaining: 2.01s
97: learn: 1797.6832497 test: 1797.5003410 best: 1797.5003410 (97) total: 1.92s remaining: 1.99s
98: learn: 1796.3492526 test: 1796.1911928 best: 1796.1911928 (98) total: 1.93s remaining: 1.97s
99: learn: 1794.1019032 test: 1794.1653449 best: 1794.1653449 (99) total: 1.95s remaining: 1.95s
100: learn: 1792.7122921 test: 1792.6998451 best: 1792.6998451 (100) total: 1.97s remaining: 1.93s
101: learn: 1791.7515698 test: 1791.8409484 best: 1791.8409484 (101) total: 1.99s remaining: 1.91s
102: learn: 1790.6727270 test: 1790.6270890 best: 1790.6270890 (102) total: 2.01s remaining: 1.89s
103: learn: 1788.8767474 test: 1788.8503478 best: 1788.8503478 (103) total: 2.02s remaining: 1.87s
104: learn: 1787.1094771 test: 1787.1604802 best: 1787.1604802 (104) total: 2.04s remaining: 1.85s
105: learn: 1785.9240808 test: 1786.1898017 best: 1786.1898017 (105) total: 2.06s remaining: 1.83s
106: learn: 1784.7645979 test: 1785.2862777 best: 1785.2862777 (106) total: 2.08s remaining: 1.81s
107: learn: 1782.8337816 test: 1783.7523997 best: 1783.7523997 (107) total: 2.1s remaining: 1.79s
108: learn: 1781.3406027 test: 1782.1448434 best: 1782.1448434 (108) total: 2.12s remaining: 1.77s
109: learn: 1779.9657255 test: 1781.1738534 best: 1781.1738534 (109) total: 2.14s remaining: 1.75s
110: learn: 1778.9250622 test: 1780.2503006 best: 1780.2503006 (110) total: 2.15s remaining: 1.73s
111: learn: 1777.7981640 test: 1779.1376090 best: 1779.1376090 (111) total: 2.18s remaining: 1.71s
112: learn: 1776.1900493 test: 1777.6516321 best: 1777.6516321 (112) total: 2.2s remaining: 1.69s
113: learn: 1775.1977729 test: 1777.2835777 best: 1777.2835777 (113) total: 2.22s remaining: 1.67s
114: learn: 1773.6319998 test: 1775.7657408 best: 1775.7657408 (114) total: 2.24s remaining: 1.65s
115: learn: 1772.6872973 test: 1774.9137381 best: 1774.9137381 (115) total: 2.25s remaining: 1.63s
116: learn: 1771.8328415 test: 1774.2360105 best: 1774.2360105 (116) total: 2.28s remaining: 1.61s
117: learn: 1770.8031653 test: 1773.6493637 best: 1773.6493637 (117) total: 2.29s remaining: 1.59s
118: learn: 1769.4460370 test: 1772.9881751 best: 1772.9881751 (118) total: 2.31s remaining: 1.57s
119: learn: 1767.8594415 test: 1771.7744728 best: 1771.7744728 (119) total: 2.33s remaining: 1.55s
120: learn: 1766.2608663 test: 1770.6110899 best: 1770.6110899 (120) total: 2.35s remaining: 1.53s

121: learn: 1764.8660617 test: 1769.4191087 best: 1769.4191087 (121) total: 2.37s remaining: 1.52s
122: learn: 1764.0179019 test: 1768.7042459 best: 1768.7042459 (122) total: 2.39s remaining: 1.5s
123: learn: 1762.8381983 test: 1767.5624665 best: 1767.5624665 (123) total: 2.41s remaining: 1.48s
124: learn: 1761.6898641 test: 1766.6238048 best: 1766.6238048 (124) total: 2.43s remaining: 1.46s
125: learn: 1760.0127810 test: 1765.3425923 best: 1765.3425923 (125) total: 2.45s remaining: 1.44s
126: learn: 1759.1276005 test: 1764.7844646 best: 1764.7844646 (126) total: 2.47s remaining: 1.42s
127: learn: 1758.1527278 test: 1764.0748574 best: 1764.0748574 (127) total: 2.49s remaining: 1.4s
128: learn: 1756.6900955 test: 1763.1036624 best: 1763.1036624 (128) total: 2.51s remaining: 1.38s
129: learn: 1755.6783100 test: 1762.1607764 best: 1762.1607764 (129) total: 2.53s remaining: 1.36s
130: learn: 1754.0663956 test: 1761.2018100 best: 1761.2018100 (130) total: 2.54s remaining: 1.34s
131: learn: 1753.4214727 test: 1760.7202912 best: 1760.7202912 (131) total: 2.57s remaining: 1.32s
132: learn: 1752.0901979 test: 1759.3367299 best: 1759.3367299 (132) total: 2.58s remaining: 1.3s
133: learn: 1750.7904726 test: 1758.2218217 best: 1758.2218217 (133) total: 2.6s remaining: 1.28s
134: learn: 1748.6529034 test: 1757.1530871 best: 1757.1530871 (134) total: 2.62s remaining: 1.26s
135: learn: 1746.8145069 test: 1756.1036156 best: 1756.1036156 (135) total: 2.64s remaining: 1.24s
136: learn: 1745.4069096 test: 1754.7225765 best: 1754.7225765 (136) total: 2.66s remaining: 1.22s
137: learn: 1744.7456906 test: 1754.1354766 best: 1754.1354766 (137) total: 2.68s remaining: 1.2s
138: learn: 1743.5661733 test: 1753.0931949 best: 1753.0931949 (138) total: 2.7s remaining: 1.19s
139: learn: 1742.3859473 test: 1752.1407839 best: 1752.1407839 (139) total: 2.72s remaining: 1.16s
140: learn: 1741.1490114 test: 1750.7787154 best: 1750.7787154 (140) total: 2.74s remaining: 1.15s
141: learn: 1740.0076222 test: 1749.7619650 best: 1749.7619650 (141) total: 2.75s remaining: 1.13s
142: learn: 1738.9592214 test: 1748.9396364 best: 1748.9396364 (142) total: 2.78s remaining: 1.11s
143: learn: 1737.7519685 test: 1747.7514637 best: 1747.7514637 (143) total: 2.8s remaining: 1.09s
144: learn: 1736.8108452 test: 1746.6280155 best: 1746.6280155 (144) total: 2.82s remaining: 1.07s
145: learn: 1735.3607387 test: 1745.2628982 best: 1745.2628982 (145) total: 2.84s remaining: 1.05s
146: learn: 1734.4221539 test: 1744.5569811 best: 1744.5569811 (146) total: 2.86s remaining: 1.03s
147: learn: 1733.4139878 test: 1743.6017890 best: 1743.6017890 (147) total: 2.88s remaining: 1.01s
148: learn: 1731.9941599 test: 1742.2073072 best: 1742.2073072 (148) total: 2.9s remaining: 992ms
149: learn: 1731.0938413 test: 1741.3311752 best: 1741.3311752 (149) total: 2.92s remaining: 972ms
150: learn: 1729.3177740 test: 1739.9374185 best: 1739.9374185 (150) total: 2.94s remaining: 953ms
151: learn: 1728.1265978 test: 1738.7628773 best: 1738.7628773 (151) total: 2.95s remaining: 933ms
152: learn: 1727.4135657 test: 1738.2936793 best: 1738.2936793 (152) total: 2.98s remaining: 915ms
153: learn: 1726.5286858 test: 1737.4008095 best: 1737.4008095 (153) total: 3s remaining: 895ms
154: learn: 1726.0341876 test: 1736.9667359 best: 1736.9667359 (154) total: 3.01s remaining: 875ms
155: learn: 1725.3234999 test: 1736.5970324 best: 1736.5970324 (155) total: 3.03s remaining: 855ms
156: learn: 1724.4837523 test: 1735.8728454 best: 1735.8728454 (156) total: 3.05s remaining: 836ms
157: learn: 1723.7153528 test: 1735.3895165 best: 1735.3895165 (157) total: 3.07s remaining: 816ms
158: learn: 1723.2039408 test: 1734.9755436 best: 1734.9755436 (158) total: 3.09s remaining: 796ms
159: learn: 1722.0824473 test: 1733.4963275 best: 1733.4963275 (159) total: 3.11s remaining: 777ms
160: learn: 1721.3455363 test: 1733.0741419 best: 1733.0741419 (160) total: 3.13s remaining: 757ms
161: learn: 1720.3587495 test: 1732.3722653 best: 1732.3722653 (161) total: 3.14s remaining: 737ms
162: learn: 1718.8792032 test: 1730.9118588 best: 1730.9118588 (162) total: 3.17s remaining: 719ms

163: learn: 1717.7515608 test: 1729.9691762 best: 1729.9691762 (163) total: 3.19s remaining: 699ms
164: learn: 1717.0020443 test: 1729.4175198 best: 1729.4175198 (164) total: 3.21s remaining: 680ms
165: learn: 1715.9304220 test: 1728.6696392 best: 1728.6696392 (165) total: 3.23s remaining: 661ms
166: learn: 1715.2590208 test: 1728.0530844 best: 1728.0530844 (166) total: 3.24s remaining: 641ms
167: learn: 1714.5786714 test: 1727.6680411 best: 1727.6680411 (167) total: 3.26s remaining: 621ms
168: learn: 1713.8491091 test: 1727.1359857 best: 1727.1359857 (168) total: 3.28s remaining: 602ms
169: learn: 1712.9470746 test: 1726.3984030 best: 1726.3984030 (169) total: 3.3s remaining: 582ms
170: learn: 1711.9044738 test: 1725.7468542 best: 1725.7468542 (170) total: 3.32s remaining: 563ms
171: learn: 1710.9279505 test: 1724.9429665 best: 1724.9429665 (171) total: 3.34s remaining: 543ms
172: learn: 1710.1655909 test: 1724.3880895 best: 1724.3880895 (172) total: 3.36s remaining: 525ms
173: learn: 1709.4229140 test: 1723.8312972 best: 1723.8312972 (173) total: 3.38s remaining: 505ms
174: learn: 1708.6907227 test: 1723.2243406 best: 1723.2243406 (174) total: 3.4s remaining: 486ms
175: learn: 1707.6504146 test: 1722.3592681 best: 1722.3592681 (175) total: 3.42s remaining: 466ms
176: learn: 1706.8541097 test: 1722.0675440 best: 1722.0675440 (176) total: 3.44s remaining: 447ms
177: learn: 1706.1438408 test: 1721.7360603 best: 1721.7360603 (177) total: 3.45s remaining: 427ms
178: learn: 1705.3856912 test: 1721.1497689 best: 1721.1497689 (178) total: 3.47s remaining: 407ms
179: learn: 1704.5310764 test: 1720.4653225 best: 1720.4653225 (179) total: 3.49s remaining: 388ms
180: learn: 1703.7165582 test: 1720.1992272 best: 1720.1992272 (180) total: 3.51s remaining: 368ms
181: learn: 1702.9525907 test: 1719.7179373 best: 1719.7179373 (181) total: 3.52s remaining: 349ms
182: learn: 1702.1479206 test: 1719.3103064 best: 1719.3103064 (182) total: 3.54s remaining: 329ms
183: learn: 1701.1514866 test: 1718.6585498 best: 1718.6585498 (183) total: 3.56s remaining: 310ms
184: learn: 1700.5396627 test: 1717.9475426 best: 1717.9475426 (184) total: 3.58s remaining: 291ms
185: learn: 1699.2249168 test: 1716.7080560 best: 1716.7080560 (185) total: 3.61s remaining: 272ms
186: learn: 1698.2795225 test: 1715.7173711 best: 1715.7173711 (186) total: 3.63s remaining: 253ms
187: learn: 1697.7605888 test: 1715.4330263 best: 1715.4330263 (187) total: 3.67s remaining: 234ms
188: learn: 1696.6494585 test: 1714.6966664 best: 1714.6966664 (188) total: 3.7s remaining: 216ms
189: learn: 1696.1145456 test: 1714.4188846 best: 1714.4188846 (189) total: 3.73s remaining: 196ms
190: learn: 1694.9150862 test: 1713.4507469 best: 1713.4507469 (190) total: 3.77s remaining: 177ms
191: learn: 1693.8154539 test: 1712.6537073 best: 1712.6537073 (191) total: 3.79s remaining: 158ms
192: learn: 1692.9828302 test: 1712.1690678 best: 1712.1690678 (192) total: 3.82s remaining: 138ms
193: learn: 1692.2144317 test: 1711.9731747 best: 1711.9731747 (193) total: 3.84s remaining: 119ms
194: learn: 1691.7395609 test: 1711.7125752 best: 1711.7125752 (194) total: 3.86s remaining: 98.9ms
195: learn: 1691.2521077 test: 1711.2690328 best: 1711.2690328 (195) total: 3.88s remaining: 79.1ms
196: learn: 1690.6337533 test: 1710.6524029 best: 1710.6524029 (196) total: 3.89s remaining: 59.3ms
197: learn: 1690.0242068 test: 1710.0156600 best: 1710.0156600 (197) total: 3.91s remaining: 39.5ms
198: learn: 1689.2985183 test: 1709.6918815 best: 1709.6918815 (198) total: 3.93s remaining: 19.8ms
199: learn: 1688.7133089 test: 1709.4122952 best: 1709.4122952 (199) total: 3.95s remaining: 0us

bestTest = 1709.412295

bestIteration = 199

65: loss: 1709.4122952 best: 1709.4122952 (65) total: 2m 38s remaining: 1m 12s
0: learn: 6804.5787932 test: 6832.1690385 best: 6832.1690385 (0) total: 21.5ms remaining: 4.28s
1: learn: 6635.9582404 test: 6663.3605190 best: 6663.3605190 (1) total: 41.9ms remaining: 4.15s
2: learn: 6471.9592156 test: 6499.4936652 best: 6499.4936652 (2) total: 61.7ms remaining: 4.05s
3: learn: 6311.0966060 test: 6338.2259853 best: 6338.2259853 (3) total: 81.7ms remaining: 4s
4: learn: 6157.5804761 test: 6184.4721737 best: 6184.4721737 (4) total: 107ms remaining: 4.18s
5: learn: 6007.9352368 test: 6034.8070908 best: 6034.8070908 (5) total: 126ms remaining: 4.09s
6: learn: 5863.0232139 test: 5889.8635793 best: 5889.8635793 (6) total: 147ms remaining: 4.05s
7: learn: 5723.1429865 test: 5749.7447001 best: 5749.7447001 (7) total: 166ms remaining: 3.98s
8: learn: 5588.0566775 test: 5614.0572443 best: 5614.0572443 (8) total: 186ms remaining: 3.94s
9: learn: 5457.6855528 test: 5483.5220932 best: 5483.5220932 (9) total: 207ms remaining: 3.94s
10: learn: 5332.0741814 test: 5357.7160826 best: 5357.7160826 (10) total: 228ms remaining: 3.91s
11: learn: 5209.6432833 test: 5234.7811520 best: 5234.7811520 (11) total: 247ms remaining: 3.87s
12: learn: 5092.5279844 test: 5117.5109034 best: 5117.5109034 (12) total: 267ms remaining: 3.84s
13: learn: 4977.3028901 test: 5001.9784874 best: 5001.9784874 (13) total: 291ms remaining: 3.87s
14: learn: 4867.4866420 test: 4891.6020485 best: 4891.6020485 (14) total: 309ms remaining: 3.82s
15: learn: 4762.8180672 test: 4786.3284793 best: 4786.3284793 (15) total: 328ms remaining: 3.77s
16: learn: 4660.6006723 test: 4683.8963656 best: 4683.8963656 (16) total: 346ms remaining: 3.73s
17: learn: 4565.3529958 test: 4588.7195619 best: 4588.7195619 (17) total: 365ms remaining: 3.69s
18: learn: 4468.8129616 test: 4492.0424047 best: 4492.0424047 (18) total: 385ms remaining: 3.67s
19: learn: 4375.6751113 test: 4398.5049574 best: 4398.5049574 (19) total: 406ms remaining: 3.65s
20: learn: 4288.1191746 test: 4310.7356557 best: 4310.7356557 (20) total: 426ms remaining: 3.63s
21: learn: 4203.6929568 test: 4225.6794159 best: 4225.6794159 (21) total: 445ms remaining: 3.6s
22: learn: 4120.7637892 test: 4142.3508713 best: 4142.3508713 (22) total: 464ms remaining: 3.57s
23: learn: 4042.7231834 test: 4063.6752578 best: 4063.6752578 (23) total: 483ms remaining: 3.54s
24: learn: 3965.8028544 test: 3986.4120236 best: 3986.4120236 (24) total: 507ms remaining: 3.55s
25: learn: 3893.5400939 test: 3913.8309259 best: 3913.8309259 (25) total: 526ms remaining: 3.52s
26: learn: 3821.3873753 test: 3841.1546669 best: 3841.1546669 (26) total: 546ms remaining: 3.5s
27: learn: 3751.0846785 test: 3770.4465379 best: 3770.4465379 (27) total: 566ms remaining: 3.47s
28: learn: 3685.2075890 test: 3704.3433285 best: 3704.3433285 (28) total: 585ms remaining: 3.45s
29: learn: 3622.3034880 test: 3640.9121686 best: 3640.9121686 (29) total: 605ms remaining: 3.43s
30: learn: 3559.6564361 test: 3577.8558949 best: 3577.8558949 (30) total: 624ms remaining: 3.4s
31: learn: 3499.7249593 test: 3517.5332156 best: 3517.5332156 (31) total: 644ms remaining: 3.38s
32: learn: 3442.8700516 test: 3460.0817163 best: 3460.0817163 (32) total: 664ms remaining: 3.36s
33: learn: 3388.6213215 test: 3405.6045989 best: 3405.6045989 (33) total: 688ms remaining: 3.36s
34: learn: 3335.7096775 test: 3352.4485017 best: 3352.4485017 (34) total: 707ms remaining: 3.33s
35: learn: 3284.3980431 test: 3300.5698711 best: 3300.5698711 (35) total: 726ms remaining: 3.31s
36: learn: 3235.9281569 test: 3251.6653804 best: 3251.6653804 (36) total: 747ms remaining: 3.29s
37: learn: 3188.5251192 test: 3203.7410680 best: 3203.7410680 (37) total: 767ms remaining: 3.27s
38: learn: 3144.6259028 test: 3159.3966397 best: 3159.3966397 (38) total: 790ms remaining: 3.26s
39: learn: 3101.8845173 test: 3116.2754209 best: 3116.2754209 (39) total: 810ms remaining: 3.24s

40: learn: 3060.3259711 test: 3074.4943973 best: 3074.4943973 (40) total: 831ms remaining: 3.22s
41: learn: 3020.5178291 test: 3034.0444887 best: 3034.0444887 (41) total: 853ms remaining: 3.21s
42: learn: 2981.0091780 test: 2994.3423422 best: 2994.3423422 (42) total: 873ms remaining: 3.19s
43: learn: 2944.9840523 test: 2958.0681584 best: 2958.0681584 (43) total: 897ms remaining: 3.18s
44: learn: 2910.3165168 test: 2922.8633410 best: 2922.8633410 (44) total: 918ms remaining: 3.16s
45: learn: 2877.1096677 test: 2889.3400059 best: 2889.3400059 (45) total: 938ms remaining: 3.14s
46: learn: 2844.7654938 test: 2856.4041688 best: 2856.4041688 (46) total: 957ms remaining: 3.12s
47: learn: 2814.2610814 test: 2825.6958647 best: 2825.6958647 (47) total: 977ms remaining: 3.1s
48: learn: 2784.1806803 test: 2795.2307543 best: 2795.2307543 (48) total: 998ms remaining: 3.08s
49: learn: 2755.8167392 test: 2766.3252916 best: 2766.3252916 (49) total: 1.02s remaining: 3.06s
50: learn: 2728.5109906 test: 2738.2808973 best: 2738.2808973 (50) total: 1.04s remaining: 3.04s
51: learn: 2701.5888246 test: 2710.5739504 best: 2710.5739504 (51) total: 1.06s remaining: 3.02s
52: learn: 2676.1602268 test: 2684.6501450 best: 2684.6501450 (52) total: 1.08s remaining: 3.01s
53: learn: 2652.3045335 test: 2660.4677005 best: 2660.4677005 (53) total: 1.1s remaining: 2.98s
54: learn: 2628.6017470 test: 2636.2490382 best: 2636.2490382 (54) total: 1.12s remaining: 2.96s
55: learn: 2605.4234704 test: 2612.7040568 best: 2612.7040568 (55) total: 1.14s remaining: 2.94s
56: learn: 2583.8259400 test: 2590.5656575 best: 2590.5656575 (56) total: 1.16s remaining: 2.91s
57: learn: 2563.4979655 test: 2569.8351364 best: 2569.8351364 (57) total: 1.18s remaining: 2.89s
58: learn: 2542.5942805 test: 2548.4675002 best: 2548.4675002 (58) total: 1.2s remaining: 2.87s
59: learn: 2523.7400174 test: 2529.2565109 best: 2529.2565109 (59) total: 1.22s remaining: 2.85s
60: learn: 2505.0883382 test: 2510.0436829 best: 2510.0436829 (60) total: 1.24s remaining: 2.83s
61: learn: 2487.4829189 test: 2491.8529042 best: 2491.8529042 (61) total: 1.26s remaining: 2.82s
62: learn: 2470.4466712 test: 2474.5158772 best: 2474.5158772 (62) total: 1.29s remaining: 2.8s
63: learn: 2452.8529161 test: 2456.7000494 best: 2456.7000494 (63) total: 1.31s remaining: 2.78s
64: learn: 2436.5056463 test: 2439.7297549 best: 2439.7297549 (64) total: 1.32s remaining: 2.75s
65: learn: 2420.6654368 test: 2423.6243881 best: 2423.6243881 (65) total: 1.34s remaining: 2.73s
66: learn: 2405.4621122 test: 2407.9770126 best: 2407.9770126 (66) total: 1.36s remaining: 2.7s
67: learn: 2391.7689768 test: 2394.0825554 best: 2394.0825554 (67) total: 1.39s remaining: 2.69s
68: learn: 2378.1564467 test: 2380.1297245 best: 2380.1297245 (68) total: 1.41s remaining: 2.67s
69: learn: 2365.1166421 test: 2366.8437997 best: 2366.8437997 (69) total: 1.43s remaining: 2.65s
70: learn: 2352.6189211 test: 2354.2443085 best: 2354.2443085 (70) total: 1.45s remaining: 2.63s
71: learn: 2340.4625228 test: 2341.7208520 best: 2341.7208520 (71) total: 1.47s remaining: 2.61s
72: learn: 2328.1238162 test: 2329.0786669 best: 2329.0786669 (72) total: 1.49s remaining: 2.59s
73: learn: 2316.7136561 test: 2317.2600871 best: 2317.2600871 (73) total: 1.51s remaining: 2.56s
74: learn: 2306.1469378 test: 2306.1865911 best: 2306.1865911 (74) total: 1.52s remaining: 2.54s
75: learn: 2293.8177233 test: 2293.5775495 best: 2293.5775495 (75) total: 1.54s remaining: 2.52s
76: learn: 2283.4031034 test: 2282.8789830 best: 2282.8789830 (76) total: 1.56s remaining: 2.49s
77: learn: 2271.7796606 test: 2270.9512073 best: 2270.9512073 (77) total: 1.58s remaining: 2.48s
78: learn: 2261.8377409 test: 2260.9061099 best: 2260.9061099 (78) total: 1.6s remaining: 2.45s
79: learn: 2252.7004030 test: 2251.4457155 best: 2251.4457155 (79) total: 1.62s remaining: 2.43s
80: learn: 2242.5342518 test: 2241.0906694 best: 2241.0906694 (80) total: 1.64s remaining: 2.41s
81: learn: 2232.4476482 test: 2231.4738244 best: 2231.4738244 (81) total: 1.66s remaining: 2.39s

81: learn: 2233.1472430 test: 2231.4523214 best: 2231.4523214 (81) total: 1.66s remaining: 2.38s
82: learn: 2224.6801871 test: 2222.6908673 best: 2222.6908673 (82) total: 1.68s remaining: 2.36s
83: learn: 2216.5244089 test: 2214.5052073 best: 2214.5052073 (83) total: 1.7s remaining: 2.34s
84: learn: 2208.7511771 test: 2206.2616765 best: 2206.2616765 (84) total: 1.71s remaining: 2.32s
85: learn: 2201.2733130 test: 2198.5622437 best: 2198.5622437 (85) total: 1.73s remaining: 2.3s
86: learn: 2192.9967884 test: 2189.9288885 best: 2189.9288885 (86) total: 1.76s remaining: 2.28s
87: learn: 2186.1692975 test: 2182.8788292 best: 2182.8788292 (87) total: 1.79s remaining: 2.27s
88: learn: 2179.0727137 test: 2175.5246832 best: 2175.5246832 (88) total: 1.81s remaining: 2.26s
89: learn: 2172.0341075 test: 2168.1269403 best: 2168.1269403 (89) total: 1.83s remaining: 2.24s
90: learn: 2165.2626441 test: 2161.0522954 best: 2161.0522954 (90) total: 1.86s remaining: 2.22s
91: learn: 2158.1226004 test: 2153.7785428 best: 2153.7785428 (91) total: 1.88s remaining: 2.21s
92: learn: 2151.7326340 test: 2147.1171472 best: 2147.1171472 (92) total: 1.91s remaining: 2.2s
93: learn: 2145.7211822 test: 2140.8960989 best: 2140.8960989 (93) total: 1.93s remaining: 2.18s
94: learn: 2140.0193188 test: 2134.9217416 best: 2134.9217416 (94) total: 1.95s remaining: 2.16s
95: learn: 2134.4371195 test: 2129.2469831 best: 2129.2469831 (95) total: 1.98s remaining: 2.15s
96: learn: 2128.9199358 test: 2123.6843969 best: 2123.6843969 (96) total: 2.01s remaining: 2.13s
97: learn: 2123.5478691 test: 2118.2128706 best: 2118.2128706 (97) total: 2.03s remaining: 2.11s
98: learn: 2117.9709269 test: 2112.3468752 best: 2112.3468752 (98) total: 2.05s remaining: 2.09s
99: learn: 2111.4916766 test: 2105.7045013 best: 2105.7045013 (99) total: 2.07s remaining: 2.07s
100: learn: 2106.3654436 test: 2100.4660554 best: 2100.4660554 (100) total: 2.1s remaining: 2.05s
101: learn: 2101.2387852 test: 2095.4150579 best: 2095.4150579 (101) total: 2.11s remaining: 2.03s
102: learn: 2096.5548053 test: 2090.5023467 best: 2090.5023467 (102) total: 2.13s remaining: 2.01s
103: learn: 2091.8949829 test: 2085.7348120 best: 2085.7348120 (103) total: 2.15s remaining: 1.98s
104: learn: 2087.5460494 test: 2081.3761081 best: 2081.3761081 (104) total: 2.17s remaining: 1.96s
105: learn: 2082.9121171 test: 2076.6608548 best: 2076.6608548 (105) total: 2.19s remaining: 1.95s
106: learn: 2078.6059742 test: 2072.2756065 best: 2072.2756065 (106) total: 2.21s remaining: 1.92s
107: learn: 2074.1697472 test: 2067.8482893 best: 2067.8482893 (107) total: 2.23s remaining: 1.9s
108: learn: 2069.6266339 test: 2063.2506544 best: 2063.2506544 (108) total: 2.25s remaining: 1.88s
109: learn: 2065.8452957 test: 2059.3955738 best: 2059.3955738 (109) total: 2.27s remaining: 1.85s
110: learn: 2061.9757850 test: 2055.4523250 best: 2055.4523250 (110) total: 2.29s remaining: 1.84s
111: learn: 2058.0373390 test: 2051.4312240 best: 2051.4312240 (111) total: 2.31s remaining: 1.81s
112: learn: 2054.4211744 test: 2047.6382043 best: 2047.6382043 (112) total: 2.33s remaining: 1.79s
113: learn: 2049.9712063 test: 2043.1332463 best: 2043.1332463 (113) total: 2.35s remaining: 1.77s
114: learn: 2046.3604330 test: 2039.4038412 best: 2039.4038412 (114) total: 2.37s remaining: 1.75s
115: learn: 2043.2824693 test: 2036.2024023 best: 2036.2024023 (115) total: 2.39s remaining: 1.73s
116: learn: 2039.7687687 test: 2032.5850057 best: 2032.5850057 (116) total: 2.41s remaining: 1.71s
117: learn: 2036.6911043 test: 2029.5123802 best: 2029.5123802 (117) total: 2.43s remaining: 1.69s
118: learn: 2033.7821363 test: 2026.5111746 best: 2026.5111746 (118) total: 2.45s remaining: 1.67s
119: learn: 2030.0653939 test: 2022.6157465 best: 2022.6157465 (119) total: 2.47s remaining: 1.65s
120: learn: 2027.3030333 test: 2019.7632009 best: 2019.7632009 (120) total: 2.5s remaining: 1.63s
121: learn: 2024.2074032 test: 2016.4224405 best: 2016.4224405 (121) total: 2.51s remaining: 1.61s
122: learn: 2021.7626751 test: 2013.9030253 best: 2013.9030253 (122) total: 2.53s remaining: 1.58s

123: learn: 2018.9537055 test: 2011.0147596 best: 2011.0147596 (123) total: 2.55s remaining: 1.56s
124: learn: 2016.2531238 test: 2008.1946019 best: 2008.1946019 (124) total: 2.57s remaining: 1.54s
125: learn: 2013.0741776 test: 2005.0267781 best: 2005.0267781 (125) total: 2.6s remaining: 1.52s
126: learn: 2010.5339996 test: 2002.6153672 best: 2002.6153672 (126) total: 2.61s remaining: 1.5s
127: learn: 2007.9991434 test: 2000.0662558 best: 2000.0662558 (127) total: 2.63s remaining: 1.48s
128: learn: 2005.8255363 test: 1997.7875877 best: 1997.7875877 (128) total: 2.65s remaining: 1.46s
129: learn: 2002.2695217 test: 1994.2288560 best: 1994.2288560 (129) total: 2.67s remaining: 1.44s
130: learn: 1999.9145024 test: 1992.0904036 best: 1992.0904036 (130) total: 2.7s remaining: 1.42s
131: learn: 1997.4205099 test: 1989.6664872 best: 1989.6664872 (131) total: 2.72s remaining: 1.4s
132: learn: 1994.9024191 test: 1987.0597372 best: 1987.0597372 (132) total: 2.73s remaining: 1.38s
133: learn: 1992.4882742 test: 1984.4819435 best: 1984.4819435 (133) total: 2.75s remaining: 1.36s
134: learn: 1990.5325243 test: 1982.5480477 best: 1982.5480477 (134) total: 2.79s remaining: 1.34s
135: learn: 1988.2043387 test: 1980.2460059 best: 1980.2460059 (135) total: 2.81s remaining: 1.32s
136: learn: 1984.7175628 test: 1976.6016167 best: 1976.6016167 (136) total: 2.83s remaining: 1.3s
137: learn: 1982.2238376 test: 1973.9888742 best: 1973.9888742 (137) total: 2.85s remaining: 1.28s
138: learn: 1979.7676482 test: 1971.5730498 best: 1971.5730498 (138) total: 2.87s remaining: 1.26s
139: learn: 1977.6248665 test: 1969.3484804 best: 1969.3484804 (139) total: 2.9s remaining: 1.24s
140: learn: 1975.3359356 test: 1967.1327462 best: 1967.1327462 (140) total: 2.92s remaining: 1.22s
141: learn: 1973.0795590 test: 1964.9601166 best: 1964.9601166 (141) total: 2.93s remaining: 1.2s
142: learn: 1971.0032642 test: 1962.8518560 best: 1962.8518560 (142) total: 2.95s remaining: 1.18s
143: learn: 1968.9789626 test: 1960.9446941 best: 1960.9446941 (143) total: 2.97s remaining: 1.16s
144: learn: 1967.3758195 test: 1959.4108300 best: 1959.4108300 (144) total: 3s remaining: 1.14s
145: learn: 1965.2867850 test: 1957.2115698 best: 1957.2115698 (145) total: 3.01s remaining: 1.11s
146: learn: 1962.4287478 test: 1954.6174263 best: 1954.6174263 (146) total: 3.03s remaining: 1.09s
147: learn: 1960.5549496 test: 1952.7519150 best: 1952.7519150 (147) total: 3.05s remaining: 1.07s
148: learn: 1958.6098462 test: 1950.7986884 best: 1950.7986884 (148) total: 3.07s remaining: 1.05s
149: learn: 1956.5993166 test: 1948.7926065 best: 1948.7926065 (149) total: 3.1s remaining: 1.03s
150: learn: 1955.0661418 test: 1947.2404121 best: 1947.2404121 (150) total: 3.12s remaining: 1.01s
151: learn: 1953.2933512 test: 1945.4741273 best: 1945.4741273 (151) total: 3.13s remaining: 990ms
152: learn: 1951.7233797 test: 1943.9977658 best: 1943.9977658 (152) total: 3.15s remaining: 968ms
153: learn: 1949.7571677 test: 1942.2109164 best: 1942.2109164 (153) total: 3.18s remaining: 951ms
154: learn: 1948.2930195 test: 1940.8755746 best: 1940.8755746 (154) total: 3.2s remaining: 929ms
155: learn: 1946.6606582 test: 1939.1068409 best: 1939.1068409 (155) total: 3.22s remaining: 908ms
156: learn: 1944.7089544 test: 1936.9812529 best: 1936.9812529 (156) total: 3.24s remaining: 887ms
157: learn: 1942.2697772 test: 1934.5870765 best: 1934.5870765 (157) total: 3.26s remaining: 866ms
158: learn: 1940.5757781 test: 1932.8295419 best: 1932.8295419 (158) total: 3.29s remaining: 847ms
159: learn: 1938.9159142 test: 1931.1379903 best: 1931.1379903 (159) total: 3.3s remaining: 826ms
160: learn: 1937.4738580 test: 1929.7951260 best: 1929.7951260 (160) total: 3.32s remaining: 805ms
161: learn: 1935.6940592 test: 1928.0553934 best: 1928.0553934 (161) total: 3.34s remaining: 783ms
162: learn: 1934.2821100 test: 1926.6617556 best: 1926.6617556 (162) total: 3.36s remaining: 762ms
163: learn: 1932.9996304 test: 1925.5754272 best: 1925.5754272 (163) total: 3.38s remaining: 743ms

164: learn: 1931.6713880 test: 1924.1828657 best: 1924.1828657 (164) total: 3.4s remaining: 722ms
165: learn: 1930.0365592 test: 1922.4952159 best: 1922.4952159 (165) total: 3.42s remaining: 701ms
166: learn: 1928.4849709 test: 1921.0558671 best: 1921.0558671 (166) total: 3.44s remaining: 680ms
167: learn: 1927.0020990 test: 1919.3298319 best: 1919.3298319 (167) total: 3.46s remaining: 659ms
168: learn: 1925.3952149 test: 1917.7565341 best: 1917.7565341 (168) total: 3.49s remaining: 640ms
169: learn: 1923.7158340 test: 1916.0445597 best: 1916.0445597 (169) total: 3.51s remaining: 619ms
170: learn: 1922.3463872 test: 1914.7411569 best: 1914.7411569 (170) total: 3.52s remaining: 598ms
171: learn: 1920.5433270 test: 1912.9217738 best: 1912.9217738 (171) total: 3.54s remaining: 577ms
172: learn: 1918.7179899 test: 1911.1812892 best: 1911.1812892 (172) total: 3.57s remaining: 558ms
173: learn: 1917.2666082 test: 1909.8084764 best: 1909.8084764 (173) total: 3.6s remaining: 538ms
174: learn: 1916.1850686 test: 1908.7530803 best: 1908.7530803 (174) total: 3.62s remaining: 517ms
175: learn: 1914.5038886 test: 1907.2896776 best: 1907.2896776 (175) total: 3.64s remaining: 496ms
176: learn: 1913.1919557 test: 1905.9652630 best: 1905.9652630 (176) total: 3.66s remaining: 475ms
177: learn: 1912.1656246 test: 1904.9817657 best: 1904.9817657 (177) total: 3.68s remaining: 455ms
178: learn: 1910.6370849 test: 1903.4360503 best: 1903.4360503 (178) total: 3.7s remaining: 435ms
179: learn: 1909.6254973 test: 1902.4752690 best: 1902.4752690 (179) total: 3.72s remaining: 413ms
180: learn: 1908.3693460 test: 1901.2040523 best: 1901.2040523 (180) total: 3.74s remaining: 392ms
181: learn: 1906.6609112 test: 1899.3768286 best: 1899.3768286 (181) total: 3.76s remaining: 372ms
182: learn: 1905.6566641 test: 1898.3345479 best: 1898.3345479 (182) total: 3.79s remaining: 352ms
183: learn: 1904.6315121 test: 1897.2691610 best: 1897.2691610 (183) total: 3.81s remaining: 331ms
184: learn: 1903.6936038 test: 1896.3002478 best: 1896.3002478 (184) total: 3.83s remaining: 311ms
185: learn: 1901.9522740 test: 1894.5133137 best: 1894.5133137 (185) total: 3.85s remaining: 290ms
186: learn: 1900.9427968 test: 1893.5244139 best: 1893.5244139 (186) total: 3.88s remaining: 270ms
187: learn: 1899.7724144 test: 1892.2487878 best: 1892.2487878 (187) total: 3.9s remaining: 249ms
188: learn: 1898.2340791 test: 1890.7431043 best: 1890.7431043 (188) total: 3.92s remaining: 228ms
189: learn: 1896.8459284 test: 1889.5132756 best: 1889.5132756 (189) total: 3.94s remaining: 207ms
190: learn: 1895.7523159 test: 1888.4471829 best: 1888.4471829 (190) total: 3.96s remaining: 187ms
191: learn: 1894.7604786 test: 1887.5432673 best: 1887.5432673 (191) total: 3.99s remaining: 166ms
192: learn: 1892.9068752 test: 1885.6656924 best: 1885.6656924 (192) total: 4.01s remaining: 145ms
193: learn: 1892.0912103 test: 1884.8062653 best: 1884.8062653 (193) total: 4.03s remaining: 125ms
194: learn: 1891.1941444 test: 1883.9234045 best: 1883.9234045 (194) total: 4.04s remaining: 104ms
195: learn: 1890.3384523 test: 1882.9866103 best: 1882.9866103 (195) total: 4.06s remaining: 82.9ms
196: learn: 1888.8358023 test: 1881.4677450 best: 1881.4677450 (196) total: 4.09s remaining: 62.3ms
197: learn: 1888.0734206 test: 1880.7940339 best: 1880.7940339 (197) total: 4.11s remaining: 41.5ms
198: learn: 1887.2103310 test: 1879.8625428 best: 1879.8625428 (198) total: 4.12s remaining: 20.7ms
199: learn: 1886.1246510 test: 1878.7647622 best: 1878.7647622 (199) total: 4.14s remaining: 0us

bestTest = 1878.764762

bestIteration = 199

66: loss: 1878.7647622 best: 1709.4122952 (65) total: 2m 42s remaining: 1m 10s

0: learn: 6393.7262274 test: 6420.1355741 best: 6420.1355741 (0) total: 29ms remaining: 5.78s
1: learn: 5880.9230666 test: 5906.8207188 best: 5906.8207188 (1) total: 49.9ms remaining: 4.94s
2: learn: 5412.3280604 test: 5438.0275989 best: 5438.0275989 (2) total: 69.9ms remaining: 4.59s
3: learn: 5002.3051963 test: 5027.2431165 best: 5027.2431165 (3) total: 90.4ms remaining: 4.43s
4: learn: 4639.6374677 test: 4663.4820865 best: 4663.4820865 (4) total: 126ms remaining: 4.93s
5: learn: 4317.9417527 test: 4341.1882793 best: 4341.1882793 (5) total: 147ms remaining: 4.75s
6: learn: 4028.9003352 test: 4050.6430203 best: 4050.6430203 (6) total: 166ms remaining: 4.58s
7: learn: 3773.7986639 test: 3794.4229573 best: 3794.4229573 (7) total: 186ms remaining: 4.45s
8: learn: 3552.4925462 test: 3571.1447999 best: 3571.1447999 (8) total: 207ms remaining: 4.4s
9: learn: 3358.1689284 test: 3376.3065000 best: 3376.3065000 (9) total: 234ms remaining: 4.45s
10: learn: 3189.9499437 test: 3206.2155125 best: 3206.2155125 (10) total: 254ms remaining: 4.36s
11: learn: 3042.1066679 test: 3056.7233749 best: 3056.7233749 (11) total: 274ms remaining: 4.3s
12: learn: 2919.3276731 test: 2932.6945427 best: 2932.6945427 (12) total: 295ms remaining: 4.24s
13: learn: 2803.3588267 test: 2815.6675984 best: 2815.6675984 (13) total: 329ms remaining: 4.37s
14: learn: 2706.0026571 test: 2716.1810153 best: 2716.1810153 (14) total: 351ms remaining: 4.33s
15: learn: 2620.5980122 test: 2628.9505141 best: 2628.9505141 (15) total: 370ms remaining: 4.26s
16: learn: 2545.4301624 test: 2552.6332764 best: 2552.6332764 (16) total: 389ms remaining: 4.19s
17: learn: 2481.8749339 test: 2487.3359257 best: 2487.3359257 (17) total: 417ms remaining: 4.22s
18: learn: 2427.0022851 test: 2431.6111279 best: 2431.6111279 (18) total: 440ms remaining: 4.19s
19: learn: 2379.0624295 test: 2381.9374396 best: 2381.9374396 (19) total: 459ms remaining: 4.13s
20: learn: 2335.9635544 test: 2337.9281556 best: 2337.9281556 (20) total: 480ms remaining: 4.09s
21: learn: 2296.8310970 test: 2297.6411607 best: 2297.6411607 (21) total: 505ms remaining: 4.08s
22: learn: 2262.2383156 test: 2261.4204410 best: 2261.4204410 (22) total: 532ms remaining: 4.09s
23: learn: 2231.6789623 test: 2230.1990894 best: 2230.1990894 (23) total: 551ms remaining: 4.04s
24: learn: 2206.0715205 test: 2203.6457782 best: 2203.6457782 (24) total: 571ms remaining: 4s
25: learn: 2182.0874549 test: 2179.2346148 best: 2179.2346148 (25) total: 591ms remaining: 3.96s
26: learn: 2161.4874711 test: 2157.5570956 best: 2157.5570956 (26) total: 618ms remaining: 3.96s
27: learn: 2142.5011863 test: 2138.3647254 best: 2138.3647254 (27) total: 646ms remaining: 3.97s
28: learn: 2119.0936174 test: 2114.7435156 best: 2114.7435156 (28) total: 666ms remaining: 3.92s
29: learn: 2103.7564879 test: 2099.1320134 best: 2099.1320134 (29) total: 685ms remaining: 3.88s
30: learn: 2088.2221222 test: 2082.8395398 best: 2082.8395398 (30) total: 714ms remaining: 3.89s
31: learn: 2071.1221999 test: 2064.8847289 best: 2064.8847289 (31) total: 738ms remaining: 3.87s
32: learn: 2059.7564558 test: 2053.8266875 best: 2053.8266875 (32) total: 756ms remaining: 3.83s
33: learn: 2047.3483826 test: 2041.0306674 best: 2041.0306674 (33) total: 775ms remaining: 3.79s
34: learn: 2032.8927972 test: 2026.1191742 best: 2026.1191742 (34) total: 795ms remaining: 3.75s
35: learn: 2023.3102948 test: 2016.7359988 best: 2016.7359988 (35) total: 824ms remaining: 3.75s
36: learn: 2014.6112181 test: 2008.0106254 best: 2008.0106254 (36) total: 843ms remaining: 3.71s
37: learn: 2006.3324523 test: 1999.3897806 best: 1999.3897806 (37) total: 861ms remaining: 3.67s
38: learn: 1998.8082165 test: 1991.8804474 best: 1991.8804474 (38) total: 879ms remaining: 3.63s
39: learn: 1987.0427919 test: 1979.8395538 best: 1979.8395538 (39) total: 902ms remaining: 3.61s
40: learn: 1980.6866184 test: 1973.4798074 best: 1973.4798074 (40) total: 928ms remaining: 3.6s
41: learn: 1979.1507200 test: 1964.7700065 best: 1964.7700065 (41) total: 947ms remaining: 3.56s

41: learn: 1972.1507309 test: 1964.7700965 best: 1964.7700965 (41) total: 947ms remaining: 3.56s
42: learn: 1965.2465764 test: 1957.9825251 best: 1957.9825251 (42) total: 964ms remaining: 3.52s
43: learn: 1959.7732882 test: 1952.7802531 best: 1952.7802531 (43) total: 982ms remaining: 3.48s
44: learn: 1954.8454991 test: 1947.6273768 best: 1947.6273768 (44) total: 1.01s remaining: 3.47s
45: learn: 1949.6436831 test: 1942.4171343 best: 1942.4171343 (45) total: 1.03s remaining: 3.45s
46: learn: 1943.6934501 test: 1936.1970752 best: 1936.1970752 (46) total: 1.05s remaining: 3.41s
47: learn: 1937.5819863 test: 1930.2675478 best: 1930.2675478 (47) total: 1.07s remaining: 3.38s
48: learn: 1933.0955236 test: 1926.2910473 best: 1926.2910473 (48) total: 1.08s remaining: 3.34s
49: learn: 1928.2115771 test: 1921.4164300 best: 1921.4164300 (49) total: 1.11s remaining: 3.34s
50: learn: 1923.9624942 test: 1917.2119216 best: 1917.2119216 (50) total: 1.13s remaining: 3.31s
51: learn: 1920.6136466 test: 1914.1225280 best: 1914.1225280 (51) total: 1.15s remaining: 3.27s
52: learn: 1915.7774706 test: 1909.2147311 best: 1909.2147311 (52) total: 1.17s remaining: 3.24s
53: learn: 1910.9444325 test: 1904.6085596 best: 1904.6085596 (53) total: 1.19s remaining: 3.22s
54: learn: 1907.8779678 test: 1901.6331862 best: 1901.6331862 (54) total: 1.22s remaining: 3.22s
55: learn: 1902.8501268 test: 1896.8571236 best: 1896.8571236 (55) total: 1.24s remaining: 3.19s
56: learn: 1898.4232671 test: 1892.5166952 best: 1892.5166952 (56) total: 1.26s remaining: 3.16s
57: learn: 1892.7070345 test: 1886.3525489 best: 1886.3525489 (57) total: 1.28s remaining: 3.13s
58: learn: 1890.0205447 test: 1884.3335544 best: 1884.3335544 (58) total: 1.3s remaining: 3.1s
59: learn: 1886.6783395 test: 1881.1894121 best: 1881.1894121 (59) total: 1.32s remaining: 3.08s
60: learn: 1883.3209026 test: 1878.0855479 best: 1878.0855479 (60) total: 1.34s remaining: 3.05s
61: learn: 1880.5439943 test: 1875.1229480 best: 1875.1229480 (61) total: 1.36s remaining: 3.02s
62: learn: 1877.3431082 test: 1872.0936603 best: 1872.0936603 (62) total: 1.38s remaining: 3s
63: learn: 1873.6799636 test: 1868.6094781 best: 1868.6094781 (63) total: 1.41s remaining: 3s
64: learn: 1871.5092935 test: 1866.5890275 best: 1866.5890275 (64) total: 1.43s remaining: 2.97s
65: learn: 1865.9938135 test: 1861.8532033 best: 1861.8532033 (65) total: 1.45s remaining: 2.94s
66: learn: 1863.5493258 test: 1859.2763902 best: 1859.2763902 (66) total: 1.47s remaining: 2.91s
67: learn: 1861.1493144 test: 1856.9339443 best: 1856.9339443 (67) total: 1.48s remaining: 2.88s
68: learn: 1858.9840540 test: 1854.7803805 best: 1854.7803805 (68) total: 1.51s remaining: 2.87s
69: learn: 1855.7586340 test: 1851.5430907 best: 1851.5430907 (69) total: 1.53s remaining: 2.84s
70: learn: 1853.4494835 test: 1849.2283918 best: 1849.2283918 (70) total: 1.55s remaining: 2.81s
71: learn: 1850.5202155 test: 1846.4107141 best: 1846.4107141 (71) total: 1.57s remaining: 2.78s
72: learn: 1848.2689776 test: 1844.3168103 best: 1844.3168103 (72) total: 1.58s remaining: 2.76s
73: learn: 1846.3085211 test: 1842.4809609 best: 1842.4809609 (73) total: 1.61s remaining: 2.75s
74: learn: 1844.1037295 test: 1840.4762663 best: 1840.4762663 (74) total: 1.63s remaining: 2.72s
75: learn: 1840.4417864 test: 1836.7935103 best: 1836.7935103 (75) total: 1.65s remaining: 2.69s
76: learn: 1838.1674684 test: 1834.9048900 best: 1834.9048900 (76) total: 1.67s remaining: 2.67s
77: learn: 1834.1133136 test: 1831.1768787 best: 1831.1768787 (77) total: 1.69s remaining: 2.64s
78: learn: 1832.3039506 test: 1829.6962902 best: 1829.6962902 (78) total: 1.71s remaining: 2.62s
79: learn: 1830.1239565 test: 1827.9577656 best: 1827.9577656 (79) total: 1.73s remaining: 2.6s
80: learn: 1828.4843484 test: 1826.3913159 best: 1826.3913159 (80) total: 1.75s remaining: 2.57s
81: learn: 1827.0603570 test: 1824.9176065 best: 1824.9176065 (81) total: 1.77s remaining: 2.54s
82: learn: 1824.9189604 test: 1822.8014545 best: 1822.8014545 (82) total: 1.79s remaining: 2.52s

83: learn: 1823.0917414 test: 1820.9316533 best: 1820.9316533 (83) total: 1.82s remaining: 2.51s
84: learn: 1821.0966387 test: 1818.8654786 best: 1818.8654786 (84) total: 1.83s remaining: 2.48s
85: learn: 1819.4414575 test: 1817.0148633 best: 1817.0148633 (85) total: 1.85s remaining: 2.46s
86: learn: 1817.2759711 test: 1814.8453602 best: 1814.8453602 (86) total: 1.87s remaining: 2.43s
87: learn: 1815.6227273 test: 1813.2898825 best: 1813.2898825 (87) total: 1.89s remaining: 2.41s
88: learn: 1814.3963780 test: 1812.1949028 best: 1812.1949028 (88) total: 1.92s remaining: 2.39s
89: learn: 1811.8167982 test: 1809.8969404 best: 1809.8969404 (89) total: 1.94s remaining: 2.37s
90: learn: 1809.9215070 test: 1808.0984868 best: 1808.0984868 (90) total: 1.96s remaining: 2.35s
91: learn: 1807.5305881 test: 1805.7116067 best: 1805.7116067 (91) total: 1.98s remaining: 2.32s
92: learn: 1805.6602074 test: 1803.8474251 best: 1803.8474251 (92) total: 2.01s remaining: 2.31s
93: learn: 1804.3309003 test: 1803.0186817 best: 1803.0186817 (93) total: 2.02s remaining: 2.28s
94: learn: 1803.1395730 test: 1801.8102662 best: 1801.8102662 (94) total: 2.04s remaining: 2.26s
95: learn: 1801.7253587 test: 1800.6246784 best: 1800.6246784 (95) total: 2.06s remaining: 2.23s
96: learn: 1800.4850196 test: 1799.1252870 best: 1799.1252870 (96) total: 2.08s remaining: 2.21s
97: learn: 1799.1637533 test: 1797.9913459 best: 1797.9913459 (97) total: 2.11s remaining: 2.2s
98: learn: 1797.6796266 test: 1796.6177439 best: 1796.6177439 (98) total: 2.13s remaining: 2.18s
99: learn: 1796.4292703 test: 1795.6017889 best: 1795.6017889 (99) total: 2.15s remaining: 2.15s
100: learn: 1795.5242215 test: 1794.7059680 best: 1794.7059680 (100) total: 2.17s remaining: 2.13s
101: learn: 1794.5732405 test: 1793.8696122 best: 1793.8696122 (101) total: 2.19s remaining: 2.11s
102: learn: 1793.5827361 test: 1792.8859518 best: 1792.8859518 (102) total: 2.22s remaining: 2.09s
103: learn: 1791.8013901 test: 1791.1191899 best: 1791.1191899 (103) total: 2.24s remaining: 2.06s
104: learn: 1789.3868372 test: 1789.0570368 best: 1789.0570368 (104) total: 2.26s remaining: 2.04s
105: learn: 1787.7898306 test: 1787.6891734 best: 1787.6891734 (105) total: 2.28s remaining: 2.02s
106: learn: 1786.0947395 test: 1786.2344583 best: 1786.2344583 (106) total: 2.3s remaining: 2s
107: learn: 1785.0798008 test: 1785.7027753 best: 1785.7027753 (107) total: 2.32s remaining: 1.98s
108: learn: 1783.3407949 test: 1784.1739390 best: 1784.1739390 (108) total: 2.35s remaining: 1.96s
109: learn: 1781.8924180 test: 1782.9513746 best: 1782.9513746 (109) total: 2.37s remaining: 1.94s
110: learn: 1780.9274812 test: 1782.1767363 best: 1782.1767363 (110) total: 2.39s remaining: 1.92s
111: learn: 1779.5289400 test: 1781.4097862 best: 1781.4097862 (111) total: 2.42s remaining: 1.9s
112: learn: 1778.2313119 test: 1780.3999775 best: 1780.3999775 (112) total: 2.44s remaining: 1.87s
113: learn: 1776.6128744 test: 1779.2178877 best: 1779.2178877 (113) total: 2.46s remaining: 1.85s
114: learn: 1775.3439279 test: 1778.0591675 best: 1778.0591675 (114) total: 2.48s remaining: 1.83s
115: learn: 1774.0626939 test: 1777.2001739 best: 1777.2001739 (115) total: 2.51s remaining: 1.82s
116: learn: 1773.2447209 test: 1776.3164479 best: 1776.3164479 (116) total: 2.53s remaining: 1.79s
117: learn: 1771.1069977 test: 1774.7764700 best: 1774.7764700 (117) total: 2.55s remaining: 1.77s
118: learn: 1769.7903958 test: 1773.4947704 best: 1773.4947704 (118) total: 2.56s remaining: 1.75s
119: learn: 1769.0534649 test: 1772.7649847 best: 1772.7649847 (119) total: 2.59s remaining: 1.72s
120: learn: 1767.7922431 test: 1771.7152661 best: 1771.7152661 (120) total: 2.61s remaining: 1.7s
121: learn: 1766.7445790 test: 1770.6477884 best: 1770.6477884 (121) total: 2.63s remaining: 1.68s
122: learn: 1765.8192776 test: 1769.7510901 best: 1769.7510901 (122) total: 2.64s remaining: 1.66s
123: learn: 1764.7909326 test: 1768.5912991 best: 1768.5912991 (123) total: 2.66s remaining: 1.63s

124: learn: 1764.0033979 test: 1768.2038202 best: 1768.2038202 (124) total: 2.68s remaining: 1.61s
125: learn: 1762.8915016 test: 1767.0984222 best: 1767.0984222 (125) total: 2.7s remaining: 1.58s
126: learn: 1761.5864839 test: 1766.6533038 best: 1766.6533038 (126) total: 2.71s remaining: 1.56s
127: learn: 1760.5795851 test: 1765.7760805 best: 1765.7760805 (127) total: 2.74s remaining: 1.54s
128: learn: 1759.5220975 test: 1765.1159306 best: 1765.1159306 (128) total: 2.75s remaining: 1.52s
129: learn: 1758.4239601 test: 1764.0277075 best: 1764.0277075 (129) total: 2.77s remaining: 1.49s
130: learn: 1757.1279396 test: 1763.0774822 best: 1763.0774822 (130) total: 2.8s remaining: 1.47s
131: learn: 1755.6544552 test: 1761.9238800 best: 1761.9238800 (131) total: 2.82s remaining: 1.45s
132: learn: 1753.5318378 test: 1759.6894444 best: 1759.6894444 (132) total: 2.84s remaining: 1.43s
133: learn: 1752.6917337 test: 1759.0609202 best: 1759.0609202 (133) total: 2.86s remaining: 1.41s
134: learn: 1751.4231320 test: 1757.8252692 best: 1757.8252692 (134) total: 2.88s remaining: 1.39s
135: learn: 1749.9191333 test: 1756.3631475 best: 1756.3631475 (135) total: 2.9s remaining: 1.36s
136: learn: 1748.5564914 test: 1755.0664690 best: 1755.0664690 (136) total: 2.92s remaining: 1.34s
137: learn: 1747.2191579 test: 1754.0622191 best: 1754.0622191 (137) total: 2.94s remaining: 1.32s
138: learn: 1746.3220073 test: 1753.4458752 best: 1753.4458752 (138) total: 2.95s remaining: 1.3s
139: learn: 1745.1601774 test: 1752.5880563 best: 1752.5880563 (139) total: 2.97s remaining: 1.27s
140: learn: 1744.3592176 test: 1751.9108369 best: 1751.9108369 (140) total: 2.99s remaining: 1.25s
141: learn: 1742.5614418 test: 1750.8864201 best: 1750.8864201 (141) total: 3.01s remaining: 1.23s
142: learn: 1741.7038205 test: 1750.0774394 best: 1750.0774394 (142) total: 3.03s remaining: 1.21s
143: learn: 1741.1182015 test: 1749.8361049 best: 1749.8361049 (143) total: 3.05s remaining: 1.19s
144: learn: 1740.0468614 test: 1748.9561939 best: 1748.9561939 (144) total: 3.07s remaining: 1.16s
145: learn: 1739.1110101 test: 1748.1268715 best: 1748.1268715 (145) total: 3.09s remaining: 1.14s
146: learn: 1737.8146132 test: 1746.6691055 best: 1746.6691055 (146) total: 3.1s remaining: 1.12s
147: learn: 1736.4889394 test: 1745.0297378 best: 1745.0297378 (147) total: 3.12s remaining: 1.1s
148: learn: 1735.2356054 test: 1743.9869385 best: 1743.9869385 (148) total: 3.14s remaining: 1.07s
149: learn: 1734.0109003 test: 1742.9814722 best: 1742.9814722 (149) total: 3.16s remaining: 1.05s
150: learn: 1732.6975588 test: 1741.9801032 best: 1741.9801032 (150) total: 3.18s remaining: 1.03s
151: learn: 1731.6226369 test: 1740.9118653 best: 1740.9118653 (151) total: 3.2s remaining: 1.01s
152: learn: 1730.7336855 test: 1740.3443403 best: 1740.3443403 (152) total: 3.21s remaining: 987ms
153: learn: 1730.2667927 test: 1740.1098731 best: 1740.1098731 (153) total: 3.23s remaining: 965ms
154: learn: 1729.1496521 test: 1739.0533865 best: 1739.0533865 (154) total: 3.25s remaining: 943ms
155: learn: 1728.1769703 test: 1738.1201121 best: 1738.1201121 (155) total: 3.27s remaining: 921ms
156: learn: 1727.4771474 test: 1737.8231820 best: 1737.8231820 (156) total: 3.29s remaining: 901ms
157: learn: 1725.8565345 test: 1737.0398779 best: 1737.0398779 (157) total: 3.31s remaining: 879ms
158: learn: 1724.7842180 test: 1736.2509174 best: 1736.2509174 (158) total: 3.33s remaining: 858ms
159: learn: 1723.6749718 test: 1735.0772107 best: 1735.0772107 (159) total: 3.34s remaining: 836ms
160: learn: 1722.6569171 test: 1734.4367138 best: 1734.4367138 (160) total: 3.36s remaining: 814ms
161: learn: 1721.9153601 test: 1733.8928654 best: 1733.8928654 (161) total: 3.38s remaining: 792ms
162: learn: 1720.8146398 test: 1733.2747602 best: 1733.2747602 (162) total: 3.4s remaining: 771ms
163: learn: 1719.7076332 test: 1732.7705688 best: 1732.7705688 (163) total: 3.42s remaining: 750ms
164: learn: 1718.3126976 test: 1731.3241433 best: 1731.3241433 (164) total: 3.44s remaining: 730ms

165: learn: 1717.5082912 test: 1730.8015513 best: 1730.8015513 (165) total: 3.46s remaining: 709ms
166: learn: 1716.6779688 test: 1730.1393960 best: 1730.1393960 (166) total: 3.48s remaining: 688ms
167: learn: 1715.6125257 test: 1729.1936065 best: 1729.1936065 (167) total: 3.5s remaining: 667ms
168: learn: 1714.7226121 test: 1728.7150071 best: 1728.7150071 (168) total: 3.52s remaining: 646ms
169: learn: 1714.0799224 test: 1728.2420903 best: 1728.2420903 (169) total: 3.54s remaining: 625ms
170: learn: 1713.5232839 test: 1727.6658452 best: 1727.6658452 (170) total: 3.56s remaining: 604ms
171: learn: 1712.7319409 test: 1726.9721686 best: 1726.9721686 (171) total: 3.58s remaining: 583ms
172: learn: 1711.9632888 test: 1726.3963880 best: 1726.3963880 (172) total: 3.6s remaining: 562ms
173: learn: 1711.1537634 test: 1725.7533473 best: 1725.7533473 (173) total: 3.62s remaining: 541ms
174: learn: 1710.0698680 test: 1725.2111369 best: 1725.2111369 (174) total: 3.64s remaining: 520ms
175: learn: 1709.0403310 test: 1724.2041049 best: 1724.2041049 (175) total: 3.66s remaining: 499ms
176: learn: 1708.1694897 test: 1723.3352113 best: 1723.3352113 (176) total: 3.68s remaining: 478ms
177: learn: 1707.1460397 test: 1722.6613647 best: 1722.6613647 (177) total: 3.7s remaining: 457ms
178: learn: 1706.4588351 test: 1722.3623189 best: 1722.3623189 (178) total: 3.72s remaining: 436ms
179: learn: 1705.7750767 test: 1722.1753212 best: 1722.1753212 (179) total: 3.73s remaining: 415ms
180: learn: 1705.0598216 test: 1721.9096252 best: 1721.9096252 (180) total: 3.75s remaining: 394ms
181: learn: 1704.3645999 test: 1721.2720203 best: 1721.2720203 (181) total: 3.77s remaining: 373ms
182: learn: 1703.7959783 test: 1720.7397463 best: 1720.7397463 (182) total: 3.79s remaining: 352ms
183: learn: 1702.9750326 test: 1720.0486092 best: 1720.0486092 (183) total: 3.81s remaining: 331ms
184: learn: 1701.8980791 test: 1718.8165332 best: 1718.8165332 (184) total: 3.83s remaining: 310ms
185: learn: 1700.9775143 test: 1718.1488406 best: 1718.1488406 (185) total: 3.85s remaining: 290ms
186: learn: 1700.2201661 test: 1717.4829071 best: 1717.4829071 (186) total: 3.87s remaining: 269ms
187: learn: 1699.2409568 test: 1716.6086288 best: 1716.6086288 (187) total: 3.89s remaining: 248ms
188: learn: 1698.7332142 test: 1716.1455546 best: 1716.1455546 (188) total: 3.9s remaining: 227ms
189: learn: 1697.9146706 test: 1715.6010571 best: 1715.6010571 (189) total: 3.92s remaining: 206ms
190: learn: 1697.1531096 test: 1715.1780486 best: 1715.1780486 (190) total: 3.94s remaining: 186ms
191: learn: 1696.6047308 test: 1714.5649090 best: 1714.5649090 (191) total: 3.96s remaining: 165ms
192: learn: 1695.8924140 test: 1714.1118879 best: 1714.1118879 (192) total: 3.98s remaining: 144ms
193: learn: 1695.3591410 test: 1713.6263473 best: 1713.6263473 (193) total: 4s remaining: 124ms
194: learn: 1694.6495146 test: 1712.8521222 best: 1712.8521222 (194) total: 4.01s remaining: 103ms
195: learn: 1694.0684273 test: 1712.6659753 best: 1712.6659753 (195) total: 4.03s remaining: 82.3ms
196: learn: 1693.6854860 test: 1712.2975502 best: 1712.2975502 (196) total: 4.05s remaining: 61.6ms
197: learn: 1692.9635257 test: 1712.0356304 best: 1712.0356304 (197) total: 4.07s remaining: 41.1ms
198: learn: 1692.1213567 test: 1711.8025506 best: 1711.8025506 (198) total: 4.09s remaining: 20.6ms
199: learn: 1691.2892500 test: 1710.9377685 best: 1710.9377685 (199) total: 4.11s remaining: 0us

bestTest = 1710.937768

bestIteration = 199

67: loss: 1710.9377685 best: 1709.4122952 (65) total: 2m 46s remaining: 1m 8s

0: learn: 6804.6080501 test: 6832.1976802 best: 6832.1976802 (0) total: 20.9ms remaining: 4.16s

1: learn: 6662.0428512 test: 6662.4411127 best: 6662.4411127 (1) total: 41.6ms remaining: 4.12s

1: learn: 6636.0426312 test: 6635.4411127 best: 6635.4411127 (1) total: 41.6ms remaining: 4.12s
2: learn: 6472.0632959 test: 6499.5936465 best: 6499.5936465 (2) total: 60.8ms remaining: 3.99s
3: learn: 6311.2260428 test: 6338.3522485 best: 6338.3522485 (3) total: 80.7ms remaining: 3.95s
4: learn: 6157.7372635 test: 6184.6283716 best: 6184.6283716 (4) total: 102ms remaining: 3.97s
5: learn: 6008.1214828 test: 6034.9934028 best: 6034.9934028 (5) total: 123ms remaining: 3.96s
6: learn: 5863.2348043 test: 5890.0746625 best: 5890.0746625 (6) total: 143ms remaining: 3.93s
7: learn: 5723.3732335 test: 5749.9728294 best: 5749.9728294 (7) total: 166ms remaining: 3.99s
8: learn: 5588.3273320 test: 5614.3278075 best: 5614.3278075 (8) total: 186ms remaining: 3.94s
9: learn: 5457.9729354 test: 5483.8103633 best: 5483.8103633 (9) total: 205ms remaining: 3.9s
10: learn: 5332.3827177 test: 5358.0259098 best: 5358.0259098 (10) total: 225ms remaining: 3.86s
11: learn: 5209.9613265 test: 5235.1004312 best: 5235.1004312 (11) total: 244ms remaining: 3.83s
12: learn: 5092.8784342 test: 5117.8637199 best: 5117.8637199 (12) total: 266ms remaining: 3.82s
13: learn: 4977.6599776 test: 5002.3383465 best: 5002.3383465 (13) total: 287ms remaining: 3.82s
14: learn: 4867.8526948 test: 4891.9708198 best: 4891.9708198 (14) total: 310ms remaining: 3.82s
15: learn: 4763.1886178 test: 4786.7018208 best: 4786.7018208 (15) total: 334ms remaining: 3.84s
16: learn: 4660.9820750 test: 4684.2802590 best: 4684.2802590 (16) total: 361ms remaining: 3.88s
17: learn: 4565.7364249 test: 4589.1042128 best: 4589.1042128 (17) total: 381ms remaining: 3.86s
18: learn: 4469.2009829 test: 4492.4314920 best: 4492.4314920 (18) total: 402ms remaining: 3.83s
19: learn: 4376.0631283 test: 4398.8940431 best: 4398.8940431 (19) total: 422ms remaining: 3.8s
20: learn: 4288.5037759 test: 4311.1212211 best: 4311.1212211 (20) total: 444ms remaining: 3.78s
21: learn: 4204.0795671 test: 4226.0674117 best: 4226.0674117 (21) total: 466ms remaining: 3.77s
22: learn: 4121.1583750 test: 4142.7462378 best: 4142.7462378 (22) total: 487ms remaining: 3.74s
23: learn: 4043.1169940 test: 4064.0699258 best: 4064.0699258 (23) total: 507ms remaining: 3.72s
24: learn: 3966.2016057 test: 3986.8113700 best: 3986.8113700 (24) total: 527ms remaining: 3.69s
25: learn: 3893.9514632 test: 3914.2432582 best: 3914.2432582 (25) total: 551ms remaining: 3.69s
26: learn: 3821.8122432 test: 3841.5772852 best: 3841.5772852 (26) total: 571ms remaining: 3.66s
27: learn: 3751.5070545 test: 3770.8668322 best: 3770.8668322 (27) total: 593ms remaining: 3.64s
28: learn: 3685.6489950 test: 3704.7787714 best: 3704.7787714 (28) total: 613ms remaining: 3.62s
29: learn: 3622.7523746 test: 3641.3567259 best: 3641.3567259 (29) total: 634ms remaining: 3.59s
30: learn: 3560.0998765 test: 3578.2947428 best: 3578.2947428 (30) total: 655ms remaining: 3.57s
31: learn: 3500.1653882 test: 3517.9689595 best: 3517.9689595 (31) total: 675ms remaining: 3.54s
32: learn: 3443.3049908 test: 3460.5120467 best: 3460.5120467 (32) total: 695ms remaining: 3.52s
33: learn: 3389.0591184 test: 3406.0377244 best: 3406.0377244 (33) total: 715ms remaining: 3.49s
34: learn: 3336.1389048 test: 3352.8731342 best: 3352.8731342 (34) total: 735ms remaining: 3.47s
35: learn: 3284.8236104 test: 3300.9904154 best: 3300.9904154 (35) total: 760ms remaining: 3.46s
36: learn: 3236.8987928 test: 3252.5594314 best: 3252.5594314 (36) total: 780ms remaining: 3.44s
37: learn: 3189.4130577 test: 3204.5540723 best: 3204.5540723 (37) total: 800ms remaining: 3.41s
38: learn: 3145.5130452 test: 3160.2005660 best: 3160.2005660 (38) total: 820ms remaining: 3.39s
39: learn: 3102.7754907 test: 3117.0853312 best: 3117.0853312 (39) total: 841ms remaining: 3.37s
40: learn: 3061.2311612 test: 3075.3213264 best: 3075.3213264 (40) total: 863ms remaining: 3.35s
41: learn: 3021.6634841 test: 3035.1657006 best: 3035.1657006 (41) total: 884ms remaining: 3.32s
42: learn: 2982.1736001 test: 2995.4800976 best: 2995.4800976 (42) total: 904ms remaining: 3.3s

43: learn: 2946.1698964 test: 2959.2263658 best: 2959.2263658 (43) total: 924ms remaining: 3.28s
44: learn: 2911.4774919 test: 2924.1272674 best: 2924.1272674 (44) total: 949ms remaining: 3.27s
45: learn: 2878.3837294 test: 2890.7066905 best: 2890.7066905 (45) total: 968ms remaining: 3.24s
46: learn: 2845.9149705 test: 2857.6470151 best: 2857.6470151 (46) total: 988ms remaining: 3.21s
47: learn: 2815.4316509 test: 2827.0430345 best: 2827.0430345 (47) total: 1.01s remaining: 3.19s
48: learn: 2785.3279138 test: 2796.3323641 best: 2796.3323641 (48) total: 1.03s remaining: 3.16s
49: learn: 2756.9146655 test: 2767.3765306 best: 2767.3765306 (49) total: 1.05s remaining: 3.15s
50: learn: 2729.5664122 test: 2739.2844389 best: 2739.2844389 (50) total: 1.07s remaining: 3.13s
51: learn: 2702.6171577 test: 2711.5502504 best: 2711.5502504 (51) total: 1.09s remaining: 3.1s
52: learn: 2677.1508065 test: 2685.5852713 best: 2685.5852713 (52) total: 1.11s remaining: 3.07s
53: learn: 2653.2635674 test: 2661.3675848 best: 2661.3675848 (53) total: 1.13s remaining: 3.05s
54: learn: 2629.5268662 test: 2637.1137608 best: 2637.1137608 (54) total: 1.15s remaining: 3.02s
55: learn: 2607.0843580 test: 2614.1097088 best: 2614.1097088 (55) total: 1.17s remaining: 3s
56: learn: 2585.3744165 test: 2591.8505609 best: 2591.8505609 (56) total: 1.19s remaining: 2.98s
57: learn: 2564.1797714 test: 2570.3458135 best: 2570.3458135 (57) total: 1.21s remaining: 2.96s
58: learn: 2543.4102447 test: 2549.1066736 best: 2549.1066736 (58) total: 1.23s remaining: 2.93s
59: learn: 2523.7579369 test: 2529.1025303 best: 2529.1025303 (59) total: 1.25s remaining: 2.93s
60: learn: 2505.2204944 test: 2510.1616192 best: 2510.1616192 (60) total: 1.28s remaining: 2.92s
61: learn: 2487.6475469 test: 2492.0010773 best: 2492.0010773 (61) total: 1.31s remaining: 2.91s
62: learn: 2470.7788006 test: 2474.8256777 best: 2474.8256777 (62) total: 1.33s remaining: 2.9s
63: learn: 2453.6650296 test: 2457.3285099 best: 2457.3285099 (63) total: 1.36s remaining: 2.88s
64: learn: 2437.7376997 test: 2440.7603836 best: 2440.7603836 (64) total: 1.38s remaining: 2.87s
65: learn: 2422.1071328 test: 2424.8582252 best: 2424.8582252 (65) total: 1.41s remaining: 2.87s
66: learn: 2407.0163330 test: 2409.3196199 best: 2409.3196199 (66) total: 1.45s remaining: 2.87s
67: learn: 2392.8108159 test: 2394.6872692 best: 2394.6872692 (67) total: 1.48s remaining: 2.87s
68: learn: 2379.2550806 test: 2380.5541750 best: 2380.5541750 (68) total: 1.51s remaining: 2.87s
69: learn: 2366.3097671 test: 2367.3579582 best: 2367.3579582 (69) total: 1.54s remaining: 2.87s
70: learn: 2353.8284408 test: 2354.3804192 best: 2354.3804192 (70) total: 1.56s remaining: 2.84s
71: learn: 2341.8509670 test: 2342.1997472 best: 2342.1997472 (71) total: 1.58s remaining: 2.81s
72: learn: 2330.6370816 test: 2330.6373984 best: 2330.6373984 (72) total: 1.6s remaining: 2.79s
73: learn: 2319.2001886 test: 2318.7912129 best: 2318.7912129 (73) total: 1.62s remaining: 2.76s
74: learn: 2308.6423969 test: 2307.8826940 best: 2307.8826940 (74) total: 1.64s remaining: 2.74s
75: learn: 2295.8934599 test: 2294.8413750 best: 2294.8413750 (75) total: 1.66s remaining: 2.71s
76: learn: 2286.0804377 test: 2284.7314709 best: 2284.7314709 (76) total: 1.68s remaining: 2.69s
77: learn: 2276.4324717 test: 2274.7710917 best: 2274.7710917 (77) total: 1.7s remaining: 2.66s
78: learn: 2265.3860476 test: 2263.4753726 best: 2263.4753726 (78) total: 1.72s remaining: 2.64s
79: learn: 2256.0753774 test: 2253.9537630 best: 2253.9537630 (79) total: 1.74s remaining: 2.61s
80: learn: 2247.8299707 test: 2245.6205009 best: 2245.6205009 (80) total: 1.76s remaining: 2.59s
81: learn: 2239.1448819 test: 2236.9296268 best: 2236.9296268 (81) total: 1.78s remaining: 2.56s
82: learn: 2230.6345966 test: 2228.1690083 best: 2228.1690083 (82) total: 1.8s remaining: 2.53s
83: learn: 2222.5007367 test: 2219.6157935 best: 2219.6157935 (83) total: 1.81s remaining: 2.5s

84: learn: 2214.6213696 test: 2211.3954333 best: 2211.3954333 (84) total: 1.84s remaining: 2.48s
85: learn: 2207.2223503 test: 2203.8155490 best: 2203.8155490 (85) total: 1.86s remaining: 2.47s
86: learn: 2198.8206304 test: 2195.0647456 best: 2195.0647456 (86) total: 1.88s remaining: 2.45s
87: learn: 2191.2276192 test: 2187.0901896 best: 2187.0901896 (87) total: 1.9s remaining: 2.42s
88: learn: 2184.0849795 test: 2179.7328101 best: 2179.7328101 (88) total: 1.92s remaining: 2.4s
89: learn: 2176.6533200 test: 2171.9680301 best: 2171.9680301 (89) total: 1.94s remaining: 2.37s
90: learn: 2168.8456792 test: 2163.9604116 best: 2163.9604116 (90) total: 1.96s remaining: 2.35s
91: learn: 2161.0432658 test: 2155.9806159 best: 2155.9806159 (91) total: 1.98s remaining: 2.32s
92: learn: 2154.4698465 test: 2149.1211587 best: 2149.1211587 (92) total: 2s remaining: 2.3s
93: learn: 2148.3528058 test: 2142.8056334 best: 2142.8056334 (93) total: 2.02s remaining: 2.27s
94: learn: 2142.5280800 test: 2136.8129895 best: 2136.8129895 (94) total: 2.04s remaining: 2.25s
95: learn: 2136.7483585 test: 2130.9737988 best: 2130.9737988 (95) total: 2.06s remaining: 2.23s
96: learn: 2131.1796384 test: 2125.2433831 best: 2125.2433831 (96) total: 2.08s remaining: 2.21s
97: learn: 2124.8635978 test: 2118.8261019 best: 2118.8261019 (97) total: 2.1s remaining: 2.18s
98: learn: 2119.3950042 test: 2113.1349203 best: 2113.1349203 (98) total: 2.11s remaining: 2.16s
99: learn: 2113.6150326 test: 2107.2365355 best: 2107.2365355 (99) total: 2.13s remaining: 2.13s
100: learn: 2108.3827527 test: 2102.0013829 best: 2102.0013829 (100) total: 2.15s remaining: 2.11s
101: learn: 2103.5631377 test: 2097.1150692 best: 2097.1150692 (101) total: 2.17s remaining: 2.08s
102: learn: 2098.9650651 test: 2092.5111841 best: 2092.5111841 (102) total: 2.19s remaining: 2.06s
103: learn: 2094.3340668 test: 2087.7776747 best: 2087.7776747 (103) total: 2.21s remaining: 2.04s
104: learn: 2090.0370069 test: 2083.4065767 best: 2083.4065767 (104) total: 2.23s remaining: 2.01s
105: learn: 2085.4037788 test: 2078.5732202 best: 2078.5732202 (105) total: 2.25s remaining: 1.99s
106: learn: 2081.2033785 test: 2074.3755646 best: 2074.3755646 (106) total: 2.27s remaining: 1.97s
107: learn: 2076.3607818 test: 2069.5173940 best: 2069.5173940 (107) total: 2.29s remaining: 1.95s
108: learn: 2072.2626277 test: 2065.2962238 best: 2065.2962238 (108) total: 2.3s remaining: 1.92s
109: learn: 2067.9672485 test: 2060.7923595 best: 2060.7923595 (109) total: 2.32s remaining: 1.9s
110: learn: 2064.1966334 test: 2056.9215274 best: 2056.9215274 (110) total: 2.34s remaining: 1.88s
111: learn: 2060.3563752 test: 2052.8997003 best: 2052.8997003 (111) total: 2.36s remaining: 1.86s
112: learn: 2057.1945356 test: 2049.7303014 best: 2049.7303014 (112) total: 2.38s remaining: 1.83s
113: learn: 2053.1203075 test: 2045.3575316 best: 2045.3575316 (113) total: 2.4s remaining: 1.81s
114: learn: 2049.2315356 test: 2041.1728580 best: 2041.1728580 (114) total: 2.42s remaining: 1.79s
115: learn: 2045.4046426 test: 2037.1973245 best: 2037.1973245 (115) total: 2.45s remaining: 1.77s
116: learn: 2042.1720971 test: 2033.8969476 best: 2033.8969476 (116) total: 2.47s remaining: 1.75s
117: learn: 2039.1376158 test: 2030.7526387 best: 2030.7526387 (117) total: 2.49s remaining: 1.73s
118: learn: 2035.9025454 test: 2027.4802668 best: 2027.4802668 (118) total: 2.51s remaining: 1.71s
119: learn: 2032.7247193 test: 2024.2519050 best: 2024.2519050 (119) total: 2.53s remaining: 1.69s
120: learn: 2029.5415966 test: 2021.0736886 best: 2021.0736886 (120) total: 2.55s remaining: 1.66s
121: learn: 2026.5445294 test: 2017.7967066 best: 2017.7967066 (121) total: 2.56s remaining: 1.64s
122: learn: 2023.9328153 test: 2015.1630327 best: 2015.1630327 (122) total: 2.58s remaining: 1.62s
123: learn: 2021.1913921 test: 2012.4293608 best: 2012.4293608 (123) total: 2.6s remaining: 1.59s
124: learn: 2018.2515454 test: 2009.3138832 best: 2009.3138832 (124) total: 2.62s remaining: 1.57s

125: learn: 2015.8303028 test: 2006.7161613 best: 2006.7161613 (125) total: 2.64s remaining: 1.55s
126: learn: 2013.0097040 test: 2003.8630747 best: 2003.8630747 (126) total: 2.66s remaining: 1.53s
127: learn: 2010.7223953 test: 2001.5525360 best: 2001.5525360 (127) total: 2.68s remaining: 1.5s
128: learn: 2007.7939274 test: 1998.5493329 best: 1998.5493329 (128) total: 2.69s remaining: 1.48s
129: learn: 2004.2021805 test: 1994.9475013 best: 1994.9475013 (129) total: 2.71s remaining: 1.46s
130: learn: 2001.7385617 test: 1992.5070979 best: 1992.5070979 (130) total: 2.73s remaining: 1.44s
131: learn: 1999.4161133 test: 1990.1135382 best: 1990.1135382 (131) total: 2.75s remaining: 1.42s
132: learn: 1997.2666786 test: 1987.9725924 best: 1987.9725924 (132) total: 2.77s remaining: 1.4s
133: learn: 1995.0772690 test: 1985.5771967 best: 1985.5771967 (133) total: 2.79s remaining: 1.37s
134: learn: 1992.7873670 test: 1983.1821195 best: 1983.1821195 (134) total: 2.81s remaining: 1.35s
135: learn: 1990.6436517 test: 1980.9360530 best: 1980.9360530 (135) total: 2.83s remaining: 1.33s
136: learn: 1988.3616191 test: 1978.7522053 best: 1978.7522053 (136) total: 2.85s remaining: 1.31s
137: learn: 1986.0105080 test: 1976.4416438 best: 1976.4416438 (137) total: 2.86s remaining: 1.29s
138: learn: 1983.3993173 test: 1973.8600771 best: 1973.8600771 (138) total: 2.88s remaining: 1.26s
139: learn: 1981.1916739 test: 1971.7041632 best: 1971.7041632 (139) total: 2.9s remaining: 1.24s
140: learn: 1979.2939002 test: 1969.8554126 best: 1969.8554126 (140) total: 2.92s remaining: 1.22s
141: learn: 1977.1838167 test: 1967.8214694 best: 1967.8214694 (141) total: 2.94s remaining: 1.2s
142: learn: 1975.4091593 test: 1966.0329327 best: 1966.0329327 (142) total: 2.96s remaining: 1.18s
143: learn: 1973.4727432 test: 1964.1930567 best: 1964.1930567 (143) total: 2.98s remaining: 1.16s
144: learn: 1971.8447231 test: 1962.6355477 best: 1962.6355477 (144) total: 3s remaining: 1.14s
145: learn: 1969.6901934 test: 1960.3531120 best: 1960.3531120 (145) total: 3.02s remaining: 1.12s
146: learn: 1967.4044326 test: 1957.9813427 best: 1957.9813427 (146) total: 3.04s remaining: 1.1s
147: learn: 1965.5624640 test: 1956.1036155 best: 1956.1036155 (147) total: 3.06s remaining: 1.07s
148: learn: 1963.6322065 test: 1954.0836501 best: 1954.0836501 (148) total: 3.08s remaining: 1.05s
149: learn: 1961.5608608 test: 1952.1095357 best: 1952.1095357 (149) total: 3.1s remaining: 1.03s
150: learn: 1959.9773692 test: 1950.5148569 best: 1950.5148569 (150) total: 3.11s remaining: 1.01s
151: learn: 1958.2122983 test: 1948.6736533 best: 1948.6736533 (151) total: 3.14s remaining: 991ms
152: learn: 1956.6541243 test: 1947.2078817 best: 1947.2078817 (152) total: 3.15s remaining: 969ms
153: learn: 1954.6497179 test: 1945.3700792 best: 1945.3700792 (153) total: 3.17s remaining: 948ms
154: learn: 1953.1570244 test: 1944.0320192 best: 1944.0320192 (154) total: 3.19s remaining: 926ms
155: learn: 1951.1955086 test: 1942.0859902 best: 1942.0859902 (155) total: 3.21s remaining: 905ms
156: learn: 1948.9133126 test: 1939.6370150 best: 1939.6370150 (156) total: 3.23s remaining: 885ms
157: learn: 1947.2846860 test: 1937.9919199 best: 1937.9919199 (157) total: 3.25s remaining: 863ms
158: learn: 1945.4634073 test: 1936.1155509 best: 1936.1155509 (158) total: 3.27s remaining: 843ms
159: learn: 1944.0408852 test: 1934.8364046 best: 1934.8364046 (159) total: 3.29s remaining: 822ms
160: learn: 1942.5566393 test: 1933.2160233 best: 1933.2160233 (160) total: 3.31s remaining: 801ms
161: learn: 1941.1004857 test: 1931.5817585 best: 1931.5817585 (161) total: 3.33s remaining: 781ms
162: learn: 1939.5419673 test: 1930.1566532 best: 1930.1566532 (162) total: 3.35s remaining: 760ms
163: learn: 1938.2686044 test: 1929.0721159 best: 1929.0721159 (163) total: 3.37s remaining: 739ms
164: learn: 1936.4549460 test: 1927.2326736 best: 1927.2326736 (164) total: 3.39s remaining: 719ms
165: learn: 1934.6064154 test: 1925.2372159 best: 1925.2372159 (165) total: 3.41s remaining: 698ms
166: learn: 1933.2349498 test: 1923.9389576 best: 1923.9389576 (166) total: 3.43s remaining: 677ms

165: learn: 1938.2045458 test: 1920.9885570 best: 1920.9885570 (165) total: 3.48s remaining: 677ms
167: learn: 1931.7743070 test: 1922.3876171 best: 1922.3876171 (167) total: 3.44s remaining: 656ms
168: learn: 1930.2811473 test: 1920.9775617 best: 1920.9775617 (168) total: 3.46s remaining: 635ms
169: learn: 1928.5301570 test: 1919.1432575 best: 1919.1432575 (169) total: 3.48s remaining: 614ms
170: learn: 1926.6739748 test: 1917.1819845 best: 1917.1819845 (170) total: 3.5s remaining: 594ms
171: learn: 1925.2003353 test: 1915.7528396 best: 1915.7528396 (171) total: 3.52s remaining: 574ms
172: learn: 1923.2284856 test: 1913.7137880 best: 1913.7137880 (172) total: 3.54s remaining: 553ms
173: learn: 1921.6363997 test: 1912.2038722 best: 1912.2038722 (173) total: 3.56s remaining: 532ms
174: learn: 1920.4287002 test: 1910.9817580 best: 1910.9817580 (174) total: 3.58s remaining: 512ms
175: learn: 1918.9648366 test: 1909.6283667 best: 1909.6283667 (175) total: 3.6s remaining: 491ms
176: learn: 1917.4868777 test: 1908.3466773 best: 1908.3466773 (176) total: 3.62s remaining: 471ms
177: learn: 1916.2402035 test: 1907.0864281 best: 1907.0864281 (177) total: 3.64s remaining: 450ms
178: learn: 1914.6839504 test: 1905.5159647 best: 1905.5159647 (178) total: 3.66s remaining: 430ms
179: learn: 1913.4300099 test: 1904.3188726 best: 1904.3188726 (179) total: 3.68s remaining: 409ms
180: learn: 1911.9025413 test: 1902.8814723 best: 1902.8814723 (180) total: 3.7s remaining: 388ms
181: learn: 1910.9771227 test: 1901.8609835 best: 1901.8609835 (181) total: 3.71s remaining: 367ms
182: learn: 1910.0626893 test: 1900.9305045 best: 1900.9305045 (182) total: 3.74s remaining: 347ms
183: learn: 1909.0473700 test: 1899.8225546 best: 1899.8225546 (183) total: 3.75s remaining: 327ms
184: learn: 1908.0859043 test: 1898.9318620 best: 1898.9318620 (184) total: 3.77s remaining: 306ms
185: learn: 1906.4050602 test: 1897.2076714 best: 1897.2076714 (185) total: 3.79s remaining: 286ms
186: learn: 1905.3720765 test: 1896.2162276 best: 1896.2162276 (186) total: 3.81s remaining: 265ms
187: learn: 1904.0448351 test: 1894.8665530 best: 1894.8665530 (187) total: 3.84s remaining: 245ms
188: learn: 1902.8444842 test: 1893.5693968 best: 1893.5693968 (188) total: 3.85s remaining: 224ms
189: learn: 1901.6848115 test: 1892.4475597 best: 1892.4475597 (189) total: 3.87s remaining: 204ms
190: learn: 1900.5111037 test: 1891.3637743 best: 1891.3637743 (190) total: 3.9s remaining: 184ms
191: learn: 1899.6126451 test: 1890.5337951 best: 1890.5337951 (191) total: 3.92s remaining: 163ms
192: learn: 1898.1811211 test: 1889.0382631 best: 1889.0382631 (192) total: 3.94s remaining: 143ms
193: learn: 1897.3875373 test: 1888.1809842 best: 1888.1809842 (193) total: 3.96s remaining: 122ms
194: learn: 1896.5415589 test: 1887.3899654 best: 1887.3899654 (194) total: 3.98s remaining: 102ms
195: learn: 1895.6441417 test: 1886.4333785 best: 1886.4333785 (195) total: 3.99s remaining: 81.5ms
196: learn: 1894.3774769 test: 1885.3251243 best: 1885.3251243 (196) total: 4.01s remaining: 61.1ms
197: learn: 1893.5906525 test: 1884.6268113 best: 1884.6268113 (197) total: 4.03s remaining: 40.7ms
198: learn: 1892.4748079 test: 1883.4491053 best: 1883.4491053 (198) total: 4.04s remaining: 20.3ms
199: learn: 1891.6521138 test: 1882.7248346 best: 1882.7248346 (199) total: 4.06s remaining: 0us

bestTest = 1882.724835

bestIteration = 199

68: loss: 1882.7248346 best: 1709.4122952 (65) total: 2m 50s remaining: 1m 6s

0: learn: 6393.8225421 test: 6420.2298938 best: 6420.2298938 (0) total: 20.8ms remaining: 4.14s

1: learn: 5881.1831655 test: 5907.0693702 best: 5907.0693702 (1) total: 40.2ms remaining: 3.98s

2: learn: 5412.6591064 test: 5438.3435213 best: 5438.3435213 (2) total: 61ms remaining: 4s

3: learn: 5002.6411738 test: 5027.5652005 best: 5027.5652005 (3) total: 80.3ms remaining: 3.94s
4: learn: 4640.0067759 test: 4663.8408017 best: 4663.8408017 (4) total: 99.7ms remaining: 3.89s
5: learn: 4318.3491215 test: 4341.5871428 best: 4341.5871428 (5) total: 119ms remaining: 3.84s
6: learn: 4029.3068216 test: 4051.0414169 best: 4051.0414169 (6) total: 143ms remaining: 3.95s
7: learn: 3774.1934303 test: 3794.8095572 best: 3794.8095572 (7) total: 162ms remaining: 3.89s
8: learn: 3552.9051797 test: 3571.5509811 best: 3571.5509811 (8) total: 181ms remaining: 3.84s
9: learn: 3358.5803567 test: 3376.7132774 best: 3376.7132774 (9) total: 203ms remaining: 3.85s
10: learn: 3190.3488414 test: 3206.6111629 best: 3206.6111629 (10) total: 223ms remaining: 3.83s
11: learn: 3042.5212329 test: 3057.1254954 best: 3057.1254954 (11) total: 244ms remaining: 3.81s
12: learn: 2919.7677700 test: 2933.1154141 best: 2933.1154141 (12) total: 265ms remaining: 3.8s
13: learn: 2803.7664009 test: 2816.0565469 best: 2816.0565469 (13) total: 284ms remaining: 3.77s
14: learn: 2706.3946506 test: 2716.5520681 best: 2716.5520681 (14) total: 304ms remaining: 3.75s
15: learn: 2620.9700339 test: 2629.2997492 best: 2629.2997492 (15) total: 325ms remaining: 3.74s
16: learn: 2545.7838646 test: 2552.9608485 best: 2552.9608485 (16) total: 351ms remaining: 3.78s
17: learn: 2482.2271581 test: 2487.6538997 best: 2487.6538997 (17) total: 370ms remaining: 3.74s
18: learn: 2427.3466313 test: 2431.9212157 best: 2431.9212157 (18) total: 390ms remaining: 3.72s
19: learn: 2379.3996199 test: 2382.2381525 best: 2382.2381525 (19) total: 409ms remaining: 3.68s
20: learn: 2336.3113337 test: 2338.2414180 best: 2338.2414180 (20) total: 428ms remaining: 3.65s
21: learn: 2297.1890054 test: 2297.9601176 best: 2297.9601176 (21) total: 447ms remaining: 3.62s
22: learn: 2262.5905494 test: 2261.7294585 best: 2261.7294585 (22) total: 465ms remaining: 3.58s
23: learn: 2232.0282398 test: 2230.5018126 best: 2230.5018126 (23) total: 486ms remaining: 3.56s
24: learn: 2206.4098700 test: 2203.9330741 best: 2203.9330741 (24) total: 505ms remaining: 3.53s
25: learn: 2182.4274929 test: 2179.5208575 best: 2179.5208575 (25) total: 525ms remaining: 3.52s
26: learn: 2161.8236674 test: 2157.8396616 best: 2157.8396616 (26) total: 550ms remaining: 3.52s
27: learn: 2142.8479265 test: 2138.6166511 best: 2138.6166511 (27) total: 570ms remaining: 3.5s
28: learn: 2119.4298919 test: 2114.9854759 best: 2114.9854759 (28) total: 589ms remaining: 3.48s
29: learn: 2104.0927703 test: 2099.3700313 best: 2099.3700313 (29) total: 607ms remaining: 3.44s
30: learn: 2088.5649515 test: 2083.0761706 best: 2083.0761706 (30) total: 625ms remaining: 3.41s
31: learn: 2071.4523110 test: 2065.1089655 best: 2065.1089655 (31) total: 644ms remaining: 3.38s
32: learn: 2060.1011593 test: 2054.0624133 best: 2054.0624133 (32) total: 661ms remaining: 3.34s
33: learn: 2047.6883690 test: 2041.2558902 best: 2041.2558902 (33) total: 680ms remaining: 3.32s
34: learn: 2033.2271449 test: 2026.3397557 best: 2026.3397557 (34) total: 698ms remaining: 3.29s
35: learn: 2023.6729795 test: 2016.9513013 best: 2016.9513013 (35) total: 716ms remaining: 3.26s
36: learn: 2014.9886856 test: 2008.2236694 best: 2008.2236694 (36) total: 742ms remaining: 3.27s
37: learn: 2006.6349906 test: 1999.1772648 best: 1999.1772648 (37) total: 762ms remaining: 3.25s
38: learn: 1999.0640786 test: 1991.9640871 best: 1991.9640871 (38) total: 780ms remaining: 3.22s
39: learn: 1990.7718752 test: 1983.5678242 best: 1983.5678242 (39) total: 800ms remaining: 3.2s
40: learn: 1982.2946936 test: 1975.3494373 best: 1975.3494373 (40) total: 819ms remaining: 3.18s
41: learn: 1974.7300645 test: 1967.3922671 best: 1967.3922671 (41) total: 841ms remaining: 3.16s
42: learn: 1968.0436610 test: 1960.9194828 best: 1960.9194828 (42) total: 858ms remaining: 3.13s
43: learn: 1959.3476083 test: 1953.1875409 best: 1953.1875409 (43) total: 877ms remaining: 3.11s

44: learn: 1953.5777989 test: 1947.1776184 best: 1947.1776184 (44) total: 896ms remaining: 3.09s
45: learn: 1948.7011455 test: 1942.0915256 best: 1942.0915256 (45) total: 914ms remaining: 3.06s
46: learn: 1942.7635763 test: 1935.8850056 best: 1935.8850056 (46) total: 937ms remaining: 3.05s
47: learn: 1937.6074375 test: 1931.1769748 best: 1931.1769748 (47) total: 955ms remaining: 3.02s
48: learn: 1932.7580431 test: 1926.2170731 best: 1926.2170731 (48) total: 973ms remaining: 3s
49: learn: 1927.6267433 test: 1921.1908507 best: 1921.1908507 (49) total: 993ms remaining: 2.98s
50: learn: 1923.8221959 test: 1917.6461995 best: 1917.6461995 (50) total: 1.01s remaining: 2.95s
51: learn: 1918.6016978 test: 1912.3521331 best: 1912.3521331 (51) total: 1.03s remaining: 2.93s
52: learn: 1914.1337902 test: 1907.8577260 best: 1907.8577260 (52) total: 1.05s remaining: 2.91s
53: learn: 1909.7505738 test: 1903.3646725 best: 1903.3646725 (53) total: 1.07s remaining: 2.88s
54: learn: 1906.5137438 test: 1900.3217309 best: 1900.3217309 (54) total: 1.08s remaining: 2.86s
55: learn: 1902.7635182 test: 1896.4476251 best: 1896.4476251 (55) total: 1.1s remaining: 2.84s
56: learn: 1896.9599607 test: 1891.6898663 best: 1891.6898663 (56) total: 1.12s remaining: 2.81s
57: learn: 1893.8350518 test: 1888.6926201 best: 1888.6926201 (57) total: 1.15s remaining: 2.8s
58: learn: 1890.2999008 test: 1885.1089698 best: 1885.1089698 (58) total: 1.17s remaining: 2.79s
59: learn: 1887.1181065 test: 1881.9404688 best: 1881.9404688 (59) total: 1.19s remaining: 2.77s
60: learn: 1884.2415278 test: 1879.1772097 best: 1879.1772097 (60) total: 1.21s remaining: 2.75s
61: learn: 1881.6346425 test: 1876.6661178 best: 1876.6661178 (61) total: 1.22s remaining: 2.72s
62: learn: 1878.2699566 test: 1873.2709537 best: 1873.2709537 (62) total: 1.25s remaining: 2.71s
63: learn: 1874.6848966 test: 1869.7975041 best: 1869.7975041 (63) total: 1.26s remaining: 2.69s
64: learn: 1872.1635082 test: 1867.6982317 best: 1867.6982317 (64) total: 1.28s remaining: 2.66s
65: learn: 1867.4057818 test: 1863.3642933 best: 1863.3642933 (65) total: 1.3s remaining: 2.64s
66: learn: 1865.1051759 test: 1861.2464332 best: 1861.2464332 (66) total: 1.32s remaining: 2.62s
67: learn: 1862.3562353 test: 1858.5229634 best: 1858.5229634 (67) total: 1.34s remaining: 2.61s
68: learn: 1860.1310466 test: 1856.2173587 best: 1856.2173587 (68) total: 1.36s remaining: 2.59s
69: learn: 1857.7083831 test: 1854.2696619 best: 1854.2696619 (69) total: 1.38s remaining: 2.57s
70: learn: 1855.5400632 test: 1852.3069971 best: 1852.3069971 (70) total: 1.4s remaining: 2.55s
71: learn: 1853.0125861 test: 1849.8663056 best: 1849.8663056 (71) total: 1.42s remaining: 2.52s
72: learn: 1851.0611440 test: 1848.1221065 best: 1848.1221065 (72) total: 1.44s remaining: 2.5s
73: learn: 1847.3581862 test: 1844.2332607 best: 1844.2332607 (73) total: 1.46s remaining: 2.49s
74: learn: 1844.5074557 test: 1841.4876093 best: 1841.4876093 (74) total: 1.49s remaining: 2.48s
75: learn: 1841.5476070 test: 1838.8440156 best: 1838.8440156 (75) total: 1.54s remaining: 2.51s
76: learn: 1839.3195652 test: 1836.9601774 best: 1836.9601774 (76) total: 1.56s remaining: 2.49s
77: learn: 1838.0519668 test: 1835.5045096 best: 1835.5045096 (77) total: 1.58s remaining: 2.47s
78: learn: 1836.1863510 test: 1833.8972669 best: 1833.8972669 (78) total: 1.59s remaining: 2.44s
79: learn: 1833.3065785 test: 1831.5236269 best: 1831.5236269 (79) total: 1.61s remaining: 2.42s
80: learn: 1830.4662729 test: 1828.6448560 best: 1828.6448560 (80) total: 1.65s remaining: 2.42s
81: learn: 1828.8233365 test: 1827.0073776 best: 1827.0073776 (81) total: 1.67s remaining: 2.4s
82: learn: 1826.7661962 test: 1825.3076142 best: 1825.3076142 (82) total: 1.68s remaining: 2.37s
83: learn: 1825.0367472 test: 1823.4057841 best: 1823.4057841 (83) total: 1.7s remaining: 2.35s
84: learn: 1822.7690957 test: 1820.8826211 best: 1820.8826211 (84) total: 1.72s remaining: 2.33s

85: learn: 1820.5962335 test: 1818.9542666 best: 1818.9542666 (85) total: 1.74s remaining: 2.31s
86: learn: 1819.4520439 test: 1817.7884717 best: 1817.7884717 (86) total: 1.76s remaining: 2.28s
87: learn: 1817.5748811 test: 1816.4080572 best: 1816.4080572 (87) total: 1.78s remaining: 2.26s
88: learn: 1816.2378844 test: 1815.1987681 best: 1815.1987681 (88) total: 1.79s remaining: 2.24s
89: learn: 1813.8414176 test: 1813.1113724 best: 1813.1113724 (89) total: 1.81s remaining: 2.22s
90: learn: 1811.2643199 test: 1810.6005000 best: 1810.6005000 (90) total: 1.84s remaining: 2.2s
91: learn: 1809.0487878 test: 1808.7528550 best: 1808.7528550 (91) total: 1.85s remaining: 2.18s
92: learn: 1807.6702823 test: 1807.6314656 best: 1807.6314656 (92) total: 1.87s remaining: 2.15s
93: learn: 1806.6314550 test: 1806.6141162 best: 1806.6141162 (93) total: 1.89s remaining: 2.13s
94: learn: 1805.2320580 test: 1805.3598853 best: 1805.3598853 (94) total: 1.91s remaining: 2.11s
95: learn: 1804.2344596 test: 1804.6063141 best: 1804.6063141 (95) total: 1.92s remaining: 2.08s
96: learn: 1801.9944938 test: 1802.5672147 best: 1802.5672147 (96) total: 1.94s remaining: 2.06s
97: learn: 1800.0962706 test: 1800.6256918 best: 1800.6256918 (97) total: 1.96s remaining: 2.04s
98: learn: 1798.6610343 test: 1799.2971928 best: 1799.2971928 (98) total: 1.98s remaining: 2.02s
99: learn: 1797.2174136 test: 1797.8732416 best: 1797.8732416 (99) total: 2s remaining: 2s
100: learn: 1796.2341970 test: 1796.8327597 best: 1796.8327597 (100) total: 2.04s remaining: 2s
101: learn: 1794.8445405 test: 1795.5581509 best: 1795.5581509 (101) total: 2.06s remaining: 1.98s
102: learn: 1793.5646595 test: 1794.1103482 best: 1794.1103482 (102) total: 2.13s remaining: 2s
103: learn: 1792.3074687 test: 1793.0739250 best: 1793.0739250 (103) total: 2.15s remaining: 1.98s
104: learn: 1790.8446033 test: 1791.9162256 best: 1791.9162256 (104) total: 2.17s remaining: 1.96s
105: learn: 1789.3662084 test: 1790.4360431 best: 1790.4360431 (105) total: 2.24s remaining: 1.99s
106: learn: 1788.2853091 test: 1789.4336570 best: 1789.4336570 (106) total: 2.26s remaining: 1.96s
107: learn: 1786.8827307 test: 1788.1273987 best: 1788.1273987 (107) total: 2.27s remaining: 1.94s
108: learn: 1785.1173008 test: 1786.9948091 best: 1786.9948091 (108) total: 2.35s remaining: 1.96s
109: learn: 1783.3011150 test: 1785.2714306 best: 1785.2714306 (109) total: 2.37s remaining: 1.94s
110: learn: 1782.3588139 test: 1784.4567100 best: 1784.4567100 (110) total: 2.39s remaining: 1.91s
111: learn: 1781.2126772 test: 1783.2936840 best: 1783.2936840 (111) total: 2.4s remaining: 1.89s
112: learn: 1779.8473817 test: 1782.0719760 best: 1782.0719760 (112) total: 2.44s remaining: 1.88s
113: learn: 1779.0939527 test: 1781.3595574 best: 1781.3595574 (113) total: 2.46s remaining: 1.85s
114: learn: 1778.0153652 test: 1780.5088092 best: 1780.5088092 (114) total: 2.48s remaining: 1.83s
115: learn: 1776.5780965 test: 1779.1282530 best: 1779.1282530 (115) total: 2.54s remaining: 1.84s
116: learn: 1775.1257505 test: 1778.1278223 best: 1778.1278223 (116) total: 2.56s remaining: 1.81s
117: learn: 1773.1086595 test: 1777.0451908 best: 1777.0451908 (117) total: 2.58s remaining: 1.79s
118: learn: 1772.1977693 test: 1776.2755581 best: 1776.2755581 (118) total: 2.59s remaining: 1.76s
119: learn: 1770.8966600 test: 1775.4160139 best: 1775.4160139 (119) total: 2.63s remaining: 1.75s
120: learn: 1770.1145988 test: 1774.5590521 best: 1774.5590521 (120) total: 2.65s remaining: 1.73s
121: learn: 1768.5971456 test: 1773.2318603 best: 1773.2318603 (121) total: 2.66s remaining: 1.7s
122: learn: 1767.2372814 test: 1772.0127099 best: 1772.0127099 (122) total: 2.68s remaining: 1.68s
123: learn: 1766.1090620 test: 1770.9225325 best: 1770.9225325 (123) total: 2.7s remaining: 1.66s
124: learn: 1764.8043292 test: 1769.8334714 best: 1769.8334714 (124) total: 2.72s remaining: 1.63s
125: learn: 1762.3729660 test: 1767.2818024 best: 1767.2818024 (125) total: 2.74s remaining: 1.61s
126: learn: 1761.4265473 test: 1766.2579560 best: 1766.2579560 (126) total: 2.76s remaining: 1.58s

127: learn: 1760.3778050 test: 1765.4821184 best: 1765.4821184 (127) total: 2.78s remaining: 1.56s
128: learn: 1759.3775443 test: 1764.8140861 best: 1764.8140861 (128) total: 2.8s remaining: 1.54s
129: learn: 1758.4058021 test: 1763.9883061 best: 1763.9883061 (129) total: 2.82s remaining: 1.52s
130: learn: 1757.4275557 test: 1762.9731718 best: 1762.9731718 (130) total: 2.84s remaining: 1.5s
131: learn: 1756.3366935 test: 1761.9473875 best: 1761.9473875 (131) total: 2.86s remaining: 1.47s
132: learn: 1755.0752814 test: 1760.5914915 best: 1760.5914915 (132) total: 2.88s remaining: 1.45s
133: learn: 1753.9216899 test: 1759.4672770 best: 1759.4672770 (133) total: 2.9s remaining: 1.43s
134: learn: 1752.7165669 test: 1758.3921341 best: 1758.3921341 (134) total: 2.91s remaining: 1.4s
135: learn: 1751.5904616 test: 1757.4199601 best: 1757.4199601 (135) total: 2.94s remaining: 1.38s
136: learn: 1749.6291935 test: 1755.6517131 best: 1755.6517131 (136) total: 2.95s remaining: 1.36s
137: learn: 1748.1076175 test: 1753.9127020 best: 1753.9127020 (137) total: 2.97s remaining: 1.34s
138: learn: 1747.0180303 test: 1752.9717970 best: 1752.9717970 (138) total: 2.99s remaining: 1.31s
139: learn: 1746.0014842 test: 1752.2701983 best: 1752.2701983 (139) total: 3.01s remaining: 1.29s
140: learn: 1745.3301088 test: 1751.7370599 best: 1751.7370599 (140) total: 3.04s remaining: 1.27s
141: learn: 1743.5781517 test: 1750.0731360 best: 1750.0731360 (141) total: 3.06s remaining: 1.25s
142: learn: 1742.4474210 test: 1749.1877014 best: 1749.1877014 (142) total: 3.08s remaining: 1.23s
143: learn: 1741.8146058 test: 1748.5474053 best: 1748.5474053 (143) total: 3.1s remaining: 1.21s
144: learn: 1740.8890713 test: 1747.8614096 best: 1747.8614096 (144) total: 3.12s remaining: 1.18s
145: learn: 1739.6647244 test: 1746.8760329 best: 1746.8760329 (145) total: 3.14s remaining: 1.16s
146: learn: 1738.5148653 test: 1745.7842527 best: 1745.7842527 (146) total: 3.16s remaining: 1.14s
147: learn: 1736.8262916 test: 1744.7521527 best: 1744.7521527 (147) total: 3.18s remaining: 1.12s
148: learn: 1735.8285827 test: 1743.9814024 best: 1743.9814024 (148) total: 3.2s remaining: 1.09s
149: learn: 1734.7732482 test: 1742.9485080 best: 1742.9485080 (149) total: 3.23s remaining: 1.08s
150: learn: 1733.7520977 test: 1742.0041886 best: 1742.0041886 (150) total: 3.25s remaining: 1.05s
151: learn: 1733.0088086 test: 1741.4434536 best: 1741.4434536 (151) total: 3.27s remaining: 1.03s
152: learn: 1731.9834858 test: 1740.7027464 best: 1740.7027464 (152) total: 3.29s remaining: 1.01s
153: learn: 1730.9635687 test: 1739.5573095 best: 1739.5573095 (153) total: 3.3s remaining: 986ms
154: learn: 1729.9423821 test: 1738.6647882 best: 1738.6647882 (154) total: 3.32s remaining: 964ms
155: learn: 1728.8328809 test: 1737.6800031 best: 1737.6800031 (155) total: 3.34s remaining: 941ms
156: learn: 1727.7209325 test: 1736.8198024 best: 1736.8198024 (156) total: 3.35s remaining: 919ms
157: learn: 1727.1369050 test: 1736.4449989 best: 1736.4449989 (157) total: 3.37s remaining: 897ms
158: learn: 1726.3277334 test: 1735.5248618 best: 1735.5248618 (158) total: 3.39s remaining: 875ms
159: learn: 1725.5031485 test: 1734.9114790 best: 1734.9114790 (159) total: 3.41s remaining: 853ms
160: learn: 1724.6243509 test: 1733.9776324 best: 1733.9776324 (160) total: 3.43s remaining: 832ms
161: learn: 1723.5076886 test: 1733.0156212 best: 1733.0156212 (161) total: 3.45s remaining: 810ms
162: learn: 1722.1049807 test: 1732.3263965 best: 1732.3263965 (162) total: 3.47s remaining: 788ms
163: learn: 1721.1870344 test: 1731.6858006 best: 1731.6858006 (163) total: 3.49s remaining: 767ms
164: learn: 1720.0737061 test: 1731.1250553 best: 1731.1250553 (164) total: 3.51s remaining: 745ms
165: learn: 1718.9624104 test: 1730.3168616 best: 1730.3168616 (165) total: 3.53s remaining: 723ms
166: learn: 1717.6903480 test: 1729.4610309 best: 1729.4610309 (166) total: 3.55s remaining: 702ms
167: learn: 1716.8995352 test: 1728.7715975 best: 1728.7715975 (167) total: 3.57s remaining: 680ms

168: learn: 1715.5640346 test: 1727.5016960 best: 1727.5016960 (168) total: 3.59s remaining: 658ms
169: learn: 1714.5351904 test: 1726.7949569 best: 1726.7949569 (169) total: 3.61s remaining: 636ms
170: learn: 1713.6205676 test: 1726.2575934 best: 1726.2575934 (170) total: 3.63s remaining: 615ms
171: learn: 1712.9611760 test: 1725.8776599 best: 1725.8776599 (171) total: 3.64s remaining: 593ms
172: learn: 1712.2188697 test: 1725.1227875 best: 1725.1227875 (172) total: 3.66s remaining: 571ms
173: learn: 1711.1495241 test: 1724.2947818 best: 1724.2947818 (173) total: 3.68s remaining: 550ms
174: learn: 1710.1345741 test: 1723.3658794 best: 1723.3658794 (174) total: 3.7s remaining: 528ms
175: learn: 1709.3014896 test: 1722.6755468 best: 1722.6755468 (175) total: 3.72s remaining: 508ms
176: learn: 1708.7574174 test: 1722.1835733 best: 1722.1835733 (176) total: 3.74s remaining: 486ms
177: learn: 1707.8599305 test: 1721.2988111 best: 1721.2988111 (177) total: 3.76s remaining: 465ms
178: learn: 1707.1295573 test: 1721.0314293 best: 1721.0314293 (178) total: 3.78s remaining: 443ms
179: learn: 1706.3075660 test: 1720.6771447 best: 1720.6771447 (179) total: 3.79s remaining: 422ms
180: learn: 1705.5161578 test: 1720.2948483 best: 1720.2948483 (180) total: 3.81s remaining: 400ms
181: learn: 1704.8471798 test: 1719.6997556 best: 1719.6997556 (181) total: 3.83s remaining: 379ms
182: learn: 1703.9206842 test: 1719.0446512 best: 1719.0446512 (182) total: 3.85s remaining: 358ms
183: learn: 1703.1565567 test: 1718.4442415 best: 1718.4442415 (183) total: 3.87s remaining: 337ms
184: learn: 1702.4324442 test: 1718.0872927 best: 1718.0872927 (184) total: 3.89s remaining: 316ms
185: learn: 1701.7550194 test: 1717.4968855 best: 1717.4968855 (185) total: 3.91s remaining: 295ms
186: learn: 1700.6908156 test: 1716.5456760 best: 1716.5456760 (186) total: 3.93s remaining: 273ms
187: learn: 1700.0500476 test: 1716.0535345 best: 1716.0535345 (187) total: 3.95s remaining: 252ms
188: learn: 1699.0416919 test: 1715.2956686 best: 1715.2956686 (188) total: 3.97s remaining: 231ms
189: learn: 1698.6400900 test: 1714.9469755 best: 1714.9469755 (189) total: 3.99s remaining: 210ms
190: learn: 1697.9611429 test: 1714.3451638 best: 1714.3451638 (190) total: 4s remaining: 189ms
191: learn: 1697.3075423 test: 1713.8054845 best: 1713.8054845 (191) total: 4.03s remaining: 168ms
192: learn: 1696.8912069 test: 1713.4170571 best: 1713.4170571 (192) total: 4.04s remaining: 147ms
193: learn: 1696.4331987 test: 1713.0461805 best: 1713.0461805 (193) total: 4.06s remaining: 126ms
194: learn: 1695.6264602 test: 1712.3606781 best: 1712.3606781 (194) total: 4.08s remaining: 105ms
195: learn: 1694.9638601 test: 1711.8401750 best: 1711.8401750 (195) total: 4.1s remaining: 83.6ms
196: learn: 1694.1947377 test: 1711.2920718 best: 1711.2920718 (196) total: 4.12s remaining: 62.7ms
197: learn: 1693.2665756 test: 1710.4824200 best: 1710.4824200 (197) total: 4.14s remaining: 41.8ms
198: learn: 1692.5314702 test: 1710.0078211 best: 1710.0078211 (198) total: 4.15s remaining: 20.9ms
199: learn: 1691.9782904 test: 1709.6971123 best: 1709.6971123 (199) total: 4.17s remaining: 0us

bestTest = 1709.697112

bestIteration = 199

69: loss: 1709.6971123 best: 1709.4122952 (65) total: 2m 55s remaining: 1m 5s
0: learn: 6804.7243338 test: 6832.3115458 best: 6832.3115458 (0) total: 20.7ms remaining: 4.13s
1: learn: 6636.3760727 test: 6663.7591004 best: 6663.7591004 (1) total: 40.5ms remaining: 4.01s
2: learn: 6472.4741468 test: 6499.9890322 best: 6499.9890322 (2) total: 59.1ms remaining: 3.88s
3: learn: 6311.7382830 test: 6338.8526470 best: 6338.8526470 (3) total: 78.7ms remaining: 3.86s

4: learn: 6158.3583814 test: 6185.2477489 best: 6185.2477489 (4) total: 98.2ms remaining: 3.83s
5: learn: 6008.8584268 test: 6035.7311375 best: 6035.7311375 (5) total: 119ms remaining: 3.86s
6: learn: 5864.0727468 test: 5890.9111523 best: 5890.9111523 (6) total: 145ms remaining: 3.99s
7: learn: 5724.2838579 test: 5750.8769435 best: 5750.8769435 (7) total: 164ms remaining: 3.94s
8: learn: 5589.3960101 test: 5615.3979983 best: 5615.3979983 (8) total: 184ms remaining: 3.9s
9: learn: 5459.1085877 test: 5484.9513015 best: 5484.9513015 (9) total: 203ms remaining: 3.86s
10: learn: 5333.6024373 test: 5359.2522815 best: 5359.2522815 (10) total: 226ms remaining: 3.87s
11: learn: 5211.2193124 test: 5236.3648355 best: 5236.3648355 (11) total: 246ms remaining: 3.85s
12: learn: 5094.2654310 test: 5119.2615550 best: 5119.2615550 (12) total: 265ms remaining: 3.81s
13: learn: 4979.0741813 test: 5003.7650059 best: 5003.7650059 (13) total: 285ms remaining: 3.79s
14: learn: 4869.3025749 test: 4893.4330438 best: 4893.4330438 (14) total: 304ms remaining: 3.75s
15: learn: 4764.6567792 test: 4788.1826693 best: 4788.1826693 (15) total: 328ms remaining: 3.77s
16: learn: 4662.4905826 test: 4685.8011758 best: 4685.8011758 (16) total: 348ms remaining: 3.74s
17: learn: 4567.2518173 test: 4590.6286627 best: 4590.6286627 (17) total: 368ms remaining: 3.72s
18: learn: 4470.7353560 test: 4493.9742437 best: 4493.9742437 (18) total: 389ms remaining: 3.7s
19: learn: 4377.5980282 test: 4400.4373194 best: 4400.4373194 (19) total: 409ms remaining: 3.68s
20: learn: 4290.0253757 test: 4312.6507884 best: 4312.6507884 (20) total: 429ms remaining: 3.66s
21: learn: 4205.6098360 test: 4227.6073269 best: 4227.6073269 (21) total: 449ms remaining: 3.63s
22: learn: 4123.8775164 test: 4145.5607646 best: 4145.5607646 (22) total: 469ms remaining: 3.61s
23: learn: 4045.8835740 test: 4066.9312933 best: 4066.9312933 (23) total: 488ms remaining: 3.58s
24: learn: 3968.8301141 test: 3989.5349592 best: 3989.5349592 (24) total: 507ms remaining: 3.55s
25: learn: 3896.6774440 test: 3917.0637273 best: 3917.0637273 (25) total: 530ms remaining: 3.55s
26: learn: 3824.6606995 test: 3844.5103289 best: 3844.5103289 (26) total: 549ms remaining: 3.52s
27: learn: 3754.2522646 test: 3773.6950419 best: 3773.6950419 (27) total: 569ms remaining: 3.5s
28: learn: 3689.9457529 test: 3709.0000091 best: 3709.0000091 (28) total: 588ms remaining: 3.47s
29: learn: 3626.7468597 test: 3645.4553939 best: 3645.4553939 (29) total: 607ms remaining: 3.44s
30: learn: 3563.9109833 test: 3582.2114789 best: 3582.2114789 (30) total: 629ms remaining: 3.43s
31: learn: 3503.7300264 test: 3521.4039806 best: 3521.4039806 (31) total: 648ms remaining: 3.4s
32: learn: 3446.4258170 test: 3463.7129956 best: 3463.7129956 (32) total: 669ms remaining: 3.38s
33: learn: 3392.3315059 test: 3409.3910754 best: 3409.3910754 (33) total: 689ms remaining: 3.36s
34: learn: 3339.1523515 test: 3355.9726784 best: 3355.9726784 (34) total: 709ms remaining: 3.34s
35: learn: 3287.6855092 test: 3303.9391605 best: 3303.9391605 (35) total: 735ms remaining: 3.35s
36: learn: 3239.2352938 test: 3255.0310699 best: 3255.0310699 (36) total: 754ms remaining: 3.32s
37: learn: 3191.8428216 test: 3207.1193245 best: 3207.1193245 (37) total: 775ms remaining: 3.3s
38: learn: 3148.0173094 test: 3162.8123625 best: 3162.8123625 (38) total: 797ms remaining: 3.29s
39: learn: 3105.2574835 test: 3119.6712430 best: 3119.6712430 (39) total: 816ms remaining: 3.27s
40: learn: 3063.4260596 test: 3077.5487234 best: 3077.5487234 (40) total: 836ms remaining: 3.24s
41: learn: 3023.9337555 test: 3037.4694345 best: 3037.4694345 (41) total: 856ms remaining: 3.22s
42: learn: 2984.2347334 test: 2997.5770590 best: 2997.5770590 (42) total: 874ms remaining: 3.19s
43: learn: 2947.9505075 test: 2961.0977585 best: 2961.0977585 (43) total: 893ms remaining: 3.16s
44: learn: 2913.7595451 test: 2926.5305956 best: 2926.5305956 (44) total: 912ms remaining: 3.14s
45: learn: 2879.2154729 test: 2900.2521287 best: 2900.2521287 (45) total: 932ms remaining: 3.12s

45: learn: 2879.9154723 test: 2892.3521807 best: 2892.3521807 (45) total: 936ms remaining: 3.13s
46: learn: 2847.4545555 test: 2859.2980427 best: 2859.2980427 (46) total: 955ms remaining: 3.11s
47: learn: 2816.9372092 test: 2828.6658591 best: 2828.6658591 (47) total: 976ms remaining: 3.09s
48: learn: 2786.5926284 test: 2797.7064875 best: 2797.7064875 (48) total: 998ms remaining: 3.07s
49: learn: 2758.1158003 test: 2768.6903814 best: 2768.6903814 (49) total: 1.02s remaining: 3.06s
50: learn: 2730.5346115 test: 2740.2953443 best: 2740.2953443 (50) total: 1.04s remaining: 3.04s
51: learn: 2703.6945511 test: 2712.6869303 best: 2712.6869303 (51) total: 1.06s remaining: 3.02s
52: learn: 2678.0590154 test: 2686.5490271 best: 2686.5490271 (52) total: 1.08s remaining: 3s
53: learn: 2653.4829235 test: 2661.3757362 best: 2661.3757362 (53) total: 1.1s remaining: 2.97s
54: learn: 2629.7844753 test: 2637.1595308 best: 2637.1595308 (54) total: 1.12s remaining: 2.96s
55: learn: 2607.5438989 test: 2614.3689604 best: 2614.3689604 (55) total: 1.14s remaining: 2.94s
56: learn: 2585.8653667 test: 2592.1419079 best: 2592.1419079 (56) total: 1.16s remaining: 2.92s
57: learn: 2564.7932781 test: 2570.6161754 best: 2570.6161754 (57) total: 1.18s remaining: 2.89s
58: learn: 2543.8412640 test: 2549.2437466 best: 2549.2437466 (58) total: 1.2s remaining: 2.87s
59: learn: 2523.5858739 test: 2528.4834181 best: 2528.4834181 (59) total: 1.22s remaining: 2.85s
60: learn: 2505.3287398 test: 2509.8511725 best: 2509.8511725 (60) total: 1.24s remaining: 2.83s
61: learn: 2487.5556687 test: 2491.4836730 best: 2491.4836730 (61) total: 1.26s remaining: 2.81s
62: learn: 2470.5024913 test: 2474.0535454 best: 2474.0535454 (62) total: 1.28s remaining: 2.78s
63: learn: 2452.8148776 test: 2456.1472015 best: 2456.1472015 (63) total: 1.3s remaining: 2.76s
64: learn: 2436.6674787 test: 2439.6625081 best: 2439.6625081 (64) total: 1.32s remaining: 2.74s
65: learn: 2420.9787331 test: 2423.7037135 best: 2423.7037135 (65) total: 1.34s remaining: 2.72s
66: learn: 2406.2841735 test: 2408.5210098 best: 2408.5210098 (66) total: 1.36s remaining: 2.7s
67: learn: 2391.8694621 test: 2393.7483622 best: 2393.7483622 (67) total: 1.38s remaining: 2.67s
68: learn: 2376.3404961 test: 2377.8885588 best: 2377.8885588 (68) total: 1.4s remaining: 2.65s
69: learn: 2363.4251937 test: 2364.5393697 best: 2364.5393697 (69) total: 1.42s remaining: 2.63s
70: learn: 2350.9973466 test: 2351.6803634 best: 2351.6803634 (70) total: 1.44s remaining: 2.61s
71: learn: 2338.8924096 test: 2339.2083986 best: 2339.2083986 (71) total: 1.46s remaining: 2.59s
72: learn: 2327.5833677 test: 2327.5092914 best: 2327.5092914 (72) total: 1.47s remaining: 2.56s
73: learn: 2315.8885970 test: 2315.4732964 best: 2315.4732964 (73) total: 1.49s remaining: 2.54s
74: learn: 2304.6175076 test: 2304.0201561 best: 2304.0201561 (74) total: 1.51s remaining: 2.53s
75: learn: 2292.5106147 test: 2291.6437731 best: 2291.6437731 (75) total: 1.54s remaining: 2.51s
76: learn: 2282.8385388 test: 2281.6452883 best: 2281.6452883 (76) total: 1.56s remaining: 2.48s
77: learn: 2272.7747475 test: 2271.2260014 best: 2271.2260014 (77) total: 1.57s remaining: 2.46s
78: learn: 2262.9937444 test: 2261.3458408 best: 2261.3458408 (78) total: 1.59s remaining: 2.44s
79: learn: 2254.1477853 test: 2252.2232280 best: 2252.2232280 (79) total: 1.61s remaining: 2.42s
80: learn: 2243.9657645 test: 2241.8614342 best: 2241.8614342 (80) total: 1.63s remaining: 2.4s
81: learn: 2235.4247648 test: 2233.2431704 best: 2233.2431704 (81) total: 1.65s remaining: 2.37s
82: learn: 2226.7735815 test: 2224.3866985 best: 2224.3866985 (82) total: 1.67s remaining: 2.35s
83: learn: 2218.9853273 test: 2216.4335518 best: 2216.4335518 (83) total: 1.68s remaining: 2.33s
84: learn: 2211.2228579 test: 2208.1882242 best: 2208.1882242 (84) total: 1.7s remaining: 2.3s
85: learn: 2203.4026034 test: 2200.2098804 best: 2200.2098804 (85) total: 1.72s remaining: 2.28s
86: learn: 2195.0123192 test: 2191.4623218 best: 2191.4623218 (86) total: 1.74s remaining: 2.26s

87: learn: 2188.2090027 test: 2184.4683861 best: 2184.4683861 (87) total: 1.76s remaining: 2.24s
88: learn: 2181.4363744 test: 2177.4962991 best: 2177.4962991 (88) total: 1.78s remaining: 2.22s
89: learn: 2173.9643304 test: 2169.8711560 best: 2169.8711560 (89) total: 1.8s remaining: 2.19s
90: learn: 2166.1119316 test: 2161.8167972 best: 2161.8167972 (90) total: 1.82s remaining: 2.18s
91: learn: 2158.3598034 test: 2153.8798040 best: 2153.8798040 (91) total: 1.84s remaining: 2.16s
92: learn: 2151.7438969 test: 2147.0688136 best: 2147.0688136 (92) total: 1.85s remaining: 2.13s
93: learn: 2145.6095832 test: 2140.8551979 best: 2140.8551979 (93) total: 1.87s remaining: 2.11s
94: learn: 2139.7136477 test: 2134.6470070 best: 2134.6470070 (94) total: 1.89s remaining: 2.09s
95: learn: 2133.9298271 test: 2128.4862380 best: 2128.4862380 (95) total: 1.91s remaining: 2.07s
96: learn: 2128.3437402 test: 2122.7375759 best: 2122.7375759 (96) total: 1.93s remaining: 2.05s
97: learn: 2122.0905079 test: 2116.3777072 best: 2116.3777072 (97) total: 1.95s remaining: 2.03s
98: learn: 2116.3576242 test: 2110.7114294 best: 2110.7114294 (98) total: 1.97s remaining: 2.01s
99: learn: 2110.8160563 test: 2104.8623504 best: 2104.8623504 (99) total: 1.99s remaining: 1.99s
100: learn: 2105.8509833 test: 2099.9521620 best: 2099.9521620 (100) total: 2.01s remaining: 1.97s
101: learn: 2101.1299384 test: 2094.9667991 best: 2094.9667991 (101) total: 2.03s remaining: 1.95s
102: learn: 2096.3579090 test: 2089.9549552 best: 2089.9549552 (102) total: 2.05s remaining: 1.93s
103: learn: 2091.6641355 test: 2085.1572173 best: 2085.1572173 (103) total: 2.07s remaining: 1.91s
104: learn: 2087.2962249 test: 2080.6306441 best: 2080.6306441 (104) total: 2.08s remaining: 1.89s
105: learn: 2082.7948765 test: 2076.0614710 best: 2076.0614710 (105) total: 2.1s remaining: 1.86s
106: learn: 2078.5710303 test: 2071.7427655 best: 2071.7427655 (106) total: 2.13s remaining: 1.85s
107: learn: 2073.8856537 test: 2067.0180214 best: 2067.0180214 (107) total: 2.15s remaining: 1.83s
108: learn: 2069.7048576 test: 2062.8286050 best: 2062.8286050 (108) total: 2.17s remaining: 1.81s
109: learn: 2066.0487169 test: 2059.2607004 best: 2059.2607004 (109) total: 2.19s remaining: 1.79s
110: learn: 2061.8338289 test: 2055.0916372 best: 2055.0916372 (110) total: 2.21s remaining: 1.77s
111: learn: 2058.0655391 test: 2051.1777238 best: 2051.1777238 (111) total: 2.23s remaining: 1.75s
112: learn: 2054.5767880 test: 2047.6023355 best: 2047.6023355 (112) total: 2.25s remaining: 1.73s
113: learn: 2050.8092172 test: 2043.7454357 best: 2043.7454357 (113) total: 2.27s remaining: 1.71s
114: learn: 2047.2431927 test: 2039.9851561 best: 2039.9851561 (114) total: 2.29s remaining: 1.69s
115: learn: 2043.8505315 test: 2036.5475303 best: 2036.5475303 (115) total: 2.31s remaining: 1.67s
116: learn: 2040.5323516 test: 2033.2518951 best: 2033.2518951 (116) total: 2.33s remaining: 1.65s
117: learn: 2037.4254496 test: 2030.0983498 best: 2030.0983498 (117) total: 2.34s remaining: 1.63s
118: learn: 2034.1407107 test: 2026.7907657 best: 2026.7907657 (118) total: 2.36s remaining: 1.61s
119: learn: 2031.2666495 test: 2023.9448718 best: 2023.9448718 (119) total: 2.38s remaining: 1.59s
120: learn: 2028.3999683 test: 2020.9759883 best: 2020.9759883 (120) total: 2.4s remaining: 1.57s
121: learn: 2025.3001606 test: 2017.6279598 best: 2017.6279598 (121) total: 2.42s remaining: 1.55s
122: learn: 2022.7463310 test: 2015.1521616 best: 2015.1521616 (122) total: 2.44s remaining: 1.53s
123: learn: 2020.1022825 test: 2012.4404389 best: 2012.4404389 (123) total: 2.46s remaining: 1.5s
124: learn: 2016.1107172 test: 2008.3134102 best: 2008.3134102 (124) total: 2.48s remaining: 1.49s
125: learn: 2013.4819493 test: 2005.5485662 best: 2005.5485662 (125) total: 2.49s remaining: 1.47s
126: learn: 2009.7440115 test: 2001.8001199 best: 2001.8001199 (126) total: 2.52s remaining: 1.45s
127: learn: 2007.3029325 test: 1999.3070023 best: 1999.3070023 (127) total: 2.54s remaining: 1.43s

128: learn: 2005.0860040 test: 1996.9848432 best: 1996.9848432 (128) total: 2.55s remaining: 1.41s
129: learn: 2001.5991987 test: 1993.4961070 best: 1993.4961070 (129) total: 2.57s remaining: 1.39s
130: learn: 1999.5181937 test: 1991.2979652 best: 1991.2979652 (130) total: 2.59s remaining: 1.36s
131: learn: 1997.1165605 test: 1988.9225512 best: 1988.9225512 (131) total: 2.62s remaining: 1.35s
132: learn: 1995.0348807 test: 1986.8436065 best: 1986.8436065 (132) total: 2.63s remaining: 1.33s
133: learn: 1992.6404542 test: 1984.3384240 best: 1984.3384240 (133) total: 2.65s remaining: 1.31s
134: learn: 1990.3327786 test: 1981.7619966 best: 1981.7619966 (134) total: 2.67s remaining: 1.29s
135: learn: 1988.0334427 test: 1979.3928967 best: 1979.3928967 (135) total: 2.69s remaining: 1.27s
136: learn: 1986.0313836 test: 1977.4560091 best: 1977.4560091 (136) total: 2.71s remaining: 1.25s
137: learn: 1984.1522024 test: 1975.5926265 best: 1975.5926265 (137) total: 2.73s remaining: 1.23s
138: learn: 1981.6699947 test: 1973.1264131 best: 1973.1264131 (138) total: 2.74s remaining: 1.2s
139: learn: 1979.4844714 test: 1970.8513519 best: 1970.8513519 (139) total: 2.76s remaining: 1.18s
140: learn: 1977.5467283 test: 1968.8702706 best: 1968.8702706 (140) total: 2.78s remaining: 1.16s
141: learn: 1975.2306468 test: 1966.6061016 best: 1966.6061016 (141) total: 2.8s remaining: 1.15s
142: learn: 1973.5356050 test: 1964.8062951 best: 1964.8062951 (142) total: 2.82s remaining: 1.12s
143: learn: 1971.5398192 test: 1962.8969300 best: 1962.8969300 (143) total: 2.84s remaining: 1.1s
144: learn: 1969.7540015 test: 1961.1302822 best: 1961.1302822 (144) total: 2.85s remaining: 1.08s
145: learn: 1967.6657378 test: 1958.9898499 best: 1958.9898499 (145) total: 2.87s remaining: 1.06s
146: learn: 1964.9909338 test: 1956.1995340 best: 1956.1995340 (146) total: 2.89s remaining: 1.04s
147: learn: 1963.1121449 test: 1954.3654509 best: 1954.3654509 (147) total: 2.91s remaining: 1.02s
148: learn: 1961.2807401 test: 1952.5410748 best: 1952.5410748 (148) total: 2.94s remaining: 1s
149: learn: 1959.4065286 test: 1950.6869453 best: 1950.6869453 (149) total: 2.96s remaining: 986ms
150: learn: 1957.7428634 test: 1949.1200234 best: 1949.1200234 (150) total: 2.98s remaining: 968ms
151: learn: 1955.9303181 test: 1947.3320502 best: 1947.3320502 (151) total: 3.01s remaining: 950ms
152: learn: 1954.3138885 test: 1945.6988652 best: 1945.6988652 (152) total: 3.03s remaining: 932ms
153: learn: 1952.2663545 test: 1943.6111699 best: 1943.6111699 (153) total: 3.06s remaining: 913ms
154: learn: 1950.8356569 test: 1942.2289602 best: 1942.2289602 (154) total: 3.09s remaining: 896ms
155: learn: 1949.2391469 test: 1940.4930286 best: 1940.4930286 (155) total: 3.11s remaining: 878ms
156: learn: 1947.2945113 test: 1938.3729674 best: 1938.3729674 (156) total: 3.13s remaining: 858ms
157: learn: 1945.7628331 test: 1936.8970708 best: 1936.8970708 (157) total: 3.15s remaining: 837ms
158: learn: 1944.0534030 test: 1935.2069221 best: 1935.2069221 (158) total: 3.17s remaining: 817ms
159: learn: 1941.8449847 test: 1932.9329664 best: 1932.9329664 (159) total: 3.19s remaining: 797ms
160: learn: 1940.3505501 test: 1931.3867460 best: 1931.3867460 (160) total: 3.21s remaining: 778ms
161: learn: 1938.7206781 test: 1929.6212122 best: 1929.6212122 (161) total: 3.23s remaining: 757ms
162: learn: 1937.4627284 test: 1928.3893519 best: 1928.3893519 (162) total: 3.25s remaining: 737ms
163: learn: 1936.2215855 test: 1927.3321523 best: 1927.3321523 (163) total: 3.27s remaining: 718ms
164: learn: 1934.3823823 test: 1925.4717956 best: 1925.4717956 (164) total: 3.29s remaining: 698ms
165: learn: 1932.8932685 test: 1923.9829015 best: 1923.9829015 (165) total: 3.31s remaining: 678ms
166: learn: 1931.5601547 test: 1922.6310363 best: 1922.6310363 (166) total: 3.33s remaining: 658ms
167: learn: 1930.1986422 test: 1921.1606032 best: 1921.1606032 (167) total: 3.35s remaining: 637ms
168: learn: 1928.5769129 test: 1919.6987774 best: 1919.6987774 (168) total: 3.36s remaining: 617ms

169: learn: 1926.2964639 test: 1917.7024937 best: 1917.7024937 (169) total: 3.38s remaining: 597ms
170: learn: 1924.4640481 test: 1915.8103296 best: 1915.8103296 (170) total: 3.4s remaining: 577ms
171: learn: 1923.1950358 test: 1914.5053304 best: 1914.5053304 (171) total: 3.42s remaining: 557ms
172: learn: 1920.9898170 test: 1912.2200579 best: 1912.2200579 (172) total: 3.44s remaining: 537ms
173: learn: 1919.8260861 test: 1911.1528053 best: 1911.1528053 (173) total: 3.46s remaining: 517ms
174: learn: 1918.7568411 test: 1910.1079265 best: 1910.1079265 (174) total: 3.47s remaining: 496ms
175: learn: 1917.1331517 test: 1908.4862459 best: 1908.4862459 (175) total: 3.49s remaining: 477ms
176: learn: 1915.8315357 test: 1907.1532639 best: 1907.1532639 (176) total: 3.51s remaining: 456ms
177: learn: 1914.7345083 test: 1906.0845384 best: 1906.0845384 (177) total: 3.53s remaining: 436ms
178: learn: 1913.1543856 test: 1904.4815355 best: 1904.4815355 (178) total: 3.55s remaining: 416ms
179: learn: 1911.8215870 test: 1903.1418530 best: 1903.1418530 (179) total: 3.56s remaining: 396ms
180: learn: 1910.5438555 test: 1901.9033714 best: 1901.9033714 (180) total: 3.58s remaining: 376ms
181: learn: 1909.5412331 test: 1900.8456027 best: 1900.8456027 (181) total: 3.6s remaining: 356ms
182: learn: 1908.5260482 test: 1899.7953089 best: 1899.7953089 (182) total: 3.62s remaining: 336ms
183: learn: 1906.7791290 test: 1898.0833654 best: 1898.0833654 (183) total: 3.64s remaining: 316ms
184: learn: 1905.8343153 test: 1897.1263470 best: 1897.1263470 (184) total: 3.66s remaining: 297ms
185: learn: 1904.2428289 test: 1895.4988232 best: 1895.4988232 (185) total: 3.67s remaining: 277ms
186: learn: 1903.3029886 test: 1894.6157359 best: 1894.6157359 (186) total: 3.69s remaining: 257ms
187: learn: 1902.1149102 test: 1893.3868659 best: 1893.3868659 (187) total: 3.71s remaining: 237ms
188: learn: 1901.0083363 test: 1892.1811133 best: 1892.1811133 (188) total: 3.73s remaining: 217ms
189: learn: 1900.0270908 test: 1891.2104220 best: 1891.2104220 (189) total: 3.75s remaining: 197ms
190: learn: 1899.1072680 test: 1890.3236169 best: 1890.3236169 (190) total: 3.77s remaining: 177ms
191: learn: 1898.0654357 test: 1889.3653605 best: 1889.3653605 (191) total: 3.78s remaining: 158ms
192: learn: 1897.0684930 test: 1888.3911447 best: 1888.3911447 (192) total: 3.8s remaining: 138ms
193: learn: 1896.2283784 test: 1887.5212576 best: 1887.5212576 (193) total: 3.82s remaining: 118ms
194: learn: 1894.6961392 test: 1885.9049242 best: 1885.9049242 (194) total: 3.84s remaining: 98.4ms
195: learn: 1893.7315177 test: 1884.9659020 best: 1884.9659020 (195) total: 3.86s remaining: 78.7ms
196: learn: 1892.3236268 test: 1883.5681749 best: 1883.5681749 (196) total: 3.88s remaining: 59ms
197: learn: 1891.4913585 test: 1882.7651687 best: 1882.7651687 (197) total: 3.9s remaining: 39.4ms
198: learn: 1889.9993082 test: 1881.1970224 best: 1881.1970224 (198) total: 3.92s remaining: 19.7ms
199: learn: 1889.2256950 test: 1880.4874958 best: 1880.4874958 (199) total: 3.94s remaining: 0us

bestTest = 1880.487496

bestIteration = 199

70: loss: 1880.4874958 best: 1709.4122952 (65) total: 2m 59s remaining: 1m 3s
0: learn: 6394.2054357 test: 6420.6049341 best: 6420.6049341 (0) total: 20.3ms remaining: 4.05s
1: learn: 5882.2079984 test: 5908.0506001 best: 5908.0506001 (1) total: 39.4ms remaining: 3.9s
2: learn: 5413.9645663 test: 5439.5922712 best: 5439.5922712 (2) total: 59.7ms remaining: 3.92s
3: learn: 5003.9699246 test: 5028.8417858 best: 5028.8417858 (3) total: 79.8ms remaining: 3.91s
4: learn: 4641.4714637 test: 4665.2661361 best: 4665.2661361 (4) total: 101ms remaining: 3.92s
5: learn: 4219.0620170 test: 4242.1604622 best: 4242.1604622 (5) total: 121ms remaining: 3.92s

5: learn: 4319.9630170 test: 4343.1694622 best: 4343.1694622 (5) total: 121ms remaining: 3.98s
6: learn: 4030.9193621 test: 4052.6237092 best: 4052.6237092 (6) total: 145ms remaining: 3.98s
7: learn: 3775.7613258 test: 3796.3465732 best: 3796.3465732 (7) total: 169ms remaining: 4.06s
8: learn: 3554.5433874 test: 3573.1649822 best: 3573.1649822 (8) total: 190ms remaining: 4.04s
9: learn: 3360.2107788 test: 3378.3294307 best: 3378.3294307 (9) total: 209ms remaining: 3.98s
10: learn: 3191.9305369 test: 3208.1836949 best: 3208.1836949 (10) total: 229ms remaining: 3.93s
11: learn: 3044.1418204 test: 3058.7102353 best: 3058.7102353 (11) total: 248ms remaining: 3.89s
12: learn: 2921.4805168 test: 2934.7754732 best: 2934.7754732 (12) total: 269ms remaining: 3.87s
13: learn: 2805.3518673 test: 2817.5921077 best: 2817.5921077 (13) total: 288ms remaining: 3.82s
14: learn: 2707.9130371 test: 2718.0163530 best: 2718.0163530 (14) total: 306ms remaining: 3.77s
15: learn: 2622.4061990 test: 2630.6788811 best: 2630.6788811 (15) total: 325ms remaining: 3.74s
16: learn: 2547.1408772 test: 2554.2529396 best: 2554.2529396 (16) total: 350ms remaining: 3.76s
17: learn: 2483.5602982 test: 2488.9009150 best: 2488.9009150 (17) total: 369ms remaining: 3.73s
18: learn: 2428.6480882 test: 2433.1382142 best: 2433.1382142 (18) total: 387ms remaining: 3.69s
19: learn: 2380.6674889 test: 2383.4138598 best: 2383.4138598 (19) total: 405ms remaining: 3.65s
20: learn: 2337.6162753 test: 2339.4614184 best: 2339.4614184 (20) total: 424ms remaining: 3.61s
21: learn: 2298.5119692 test: 2299.1820833 best: 2299.1820833 (21) total: 442ms remaining: 3.58s
22: learn: 2263.8890747 test: 2262.9179738 best: 2262.9179738 (22) total: 460ms remaining: 3.54s
23: learn: 2233.3128699 test: 2231.6692719 best: 2231.6692719 (23) total: 480ms remaining: 3.52s
24: learn: 2207.6492543 test: 2205.0448901 best: 2205.0448901 (24) total: 498ms remaining: 3.49s
25: learn: 2183.6580142 test: 2180.6156846 best: 2180.6156846 (25) total: 517ms remaining: 3.46s
26: learn: 2163.0350543 test: 2158.9153436 best: 2158.9153436 (26) total: 540ms remaining: 3.46s
27: learn: 2144.0659765 test: 2139.6260156 best: 2139.6260156 (27) total: 558ms remaining: 3.42s
28: learn: 2120.2226500 test: 2115.5680100 best: 2115.5680100 (28) total: 577ms remaining: 3.4s
29: learn: 2104.8787921 test: 2099.9345256 best: 2099.9345256 (29) total: 595ms remaining: 3.37s
30: learn: 2089.3692483 test: 2083.6347967 best: 2083.6347967 (30) total: 613ms remaining: 3.34s
31: learn: 2072.2087203 test: 2065.6218043 best: 2065.6218043 (31) total: 632ms remaining: 3.32s
32: learn: 2060.8454059 test: 2054.3857029 best: 2054.3857029 (32) total: 652ms remaining: 3.3s
33: learn: 2048.4231381 test: 2041.5494662 best: 2041.5494662 (33) total: 671ms remaining: 3.28s
34: learn: 2033.9344257 test: 2026.6132591 best: 2026.6132591 (34) total: 692ms remaining: 3.26s
35: learn: 2024.3953016 test: 2017.1731173 best: 2017.1731173 (35) total: 717ms remaining: 3.27s
36: learn: 2015.3938645 test: 2008.0864220 best: 2008.0864220 (36) total: 742ms remaining: 3.27s
37: learn: 2007.0117941 test: 1999.3590474 best: 1999.3590474 (37) total: 761ms remaining: 3.24s
38: learn: 2000.0337113 test: 1992.7475152 best: 1992.7475152 (38) total: 779ms remaining: 3.21s
39: learn: 1989.8906840 test: 1982.1446262 best: 1982.1446262 (39) total: 799ms remaining: 3.2s
40: learn: 1982.7747098 test: 1975.3052992 best: 1975.3052992 (40) total: 818ms remaining: 3.17s
41: learn: 1975.4372875 test: 1967.4239852 best: 1967.4239852 (41) total: 836ms remaining: 3.14s
42: learn: 1968.3109795 test: 1960.6261521 best: 1960.6261521 (42) total: 854ms remaining: 3.12s
43: learn: 1962.9524848 test: 1955.2945831 best: 1955.2945831 (43) total: 871ms remaining: 3.09s
44: learn: 1956.7320798 test: 1949.0263317 best: 1949.0263317 (44) total: 890ms remaining: 3.06s
45: learn: 1950.8080774 test: 1943.2136414 best: 1943.2136414 (45) total: 908ms remaining: 3.04s
46: learn: 1945.2868253 test: 1938.1839225 best: 1938.1839225 (46) total: 927ms remaining: 3.02s

47: learn: 1939.7667151 test: 1932.8167517 best: 1932.8167517 (47) total: 951ms remaining: 3.01s
48: learn: 1934.8808625 test: 1927.2300638 best: 1927.2300638 (48) total: 969ms remaining: 2.98s
49: learn: 1929.6053176 test: 1922.1180487 best: 1922.1180487 (49) total: 986ms remaining: 2.96s
50: learn: 1925.6225036 test: 1918.4019967 best: 1918.4019967 (50) total: 1s remaining: 2.93s
51: learn: 1921.3835253 test: 1914.1761740 best: 1914.1761740 (51) total: 1.02s remaining: 2.91s
52: learn: 1917.5477420 test: 1910.6304371 best: 1910.6304371 (52) total: 1.04s remaining: 2.89s
53: learn: 1913.2567988 test: 1906.3483507 best: 1906.3483507 (53) total: 1.06s remaining: 2.86s
54: learn: 1910.4921127 test: 1903.6457311 best: 1903.6457311 (54) total: 1.08s remaining: 2.84s
55: learn: 1907.2147916 test: 1900.3450211 best: 1900.3450211 (55) total: 1.09s remaining: 2.81s
56: learn: 1900.5098815 test: 1894.2523775 best: 1894.2523775 (56) total: 1.11s remaining: 2.79s
57: learn: 1897.2520602 test: 1891.2774540 best: 1891.2774540 (57) total: 1.14s remaining: 2.78s
58: learn: 1894.2262581 test: 1888.6030380 best: 1888.6030380 (58) total: 1.15s remaining: 2.76s
59: learn: 1890.9156132 test: 1885.3611878 best: 1885.3611878 (59) total: 1.17s remaining: 2.73s
60: learn: 1884.6150897 test: 1878.9858066 best: 1878.9858066 (60) total: 1.19s remaining: 2.71s
61: learn: 1881.8957916 test: 1875.9210569 best: 1875.9210569 (61) total: 1.21s remaining: 2.69s
62: learn: 1879.5445134 test: 1873.3445763 best: 1873.3445763 (62) total: 1.23s remaining: 2.67s
63: learn: 1877.3607520 test: 1871.4582705 best: 1871.4582705 (63) total: 1.24s remaining: 2.64s
64: learn: 1872.1356608 test: 1865.9809126 best: 1865.9809126 (64) total: 1.26s remaining: 2.62s
65: learn: 1869.0413197 test: 1862.8925406 best: 1862.8925406 (65) total: 1.28s remaining: 2.6s
66: learn: 1865.8971914 test: 1859.4222182 best: 1859.4222182 (66) total: 1.3s remaining: 2.58s
67: learn: 1863.6874699 test: 1857.3089595 best: 1857.3089595 (67) total: 1.32s remaining: 2.56s
68: learn: 1860.7346603 test: 1854.3352095 best: 1854.3352095 (68) total: 1.34s remaining: 2.55s
69: learn: 1858.1830375 test: 1851.7166114 best: 1851.7166114 (69) total: 1.36s remaining: 2.53s
70: learn: 1856.2004916 test: 1849.8880448 best: 1849.8880448 (70) total: 1.38s remaining: 2.5s
71: learn: 1853.9063843 test: 1847.7341172 best: 1847.7341172 (71) total: 1.4s remaining: 2.48s
72: learn: 1851.7114457 test: 1845.5785626 best: 1845.5785626 (72) total: 1.41s remaining: 2.46s
73: learn: 1849.7967712 test: 1843.6280809 best: 1843.6280809 (73) total: 1.43s remaining: 2.44s
74: learn: 1848.2392746 test: 1842.3650643 best: 1842.3650643 (74) total: 1.45s remaining: 2.41s
75: learn: 1846.4349664 test: 1840.5789828 best: 1840.5789828 (75) total: 1.46s remaining: 2.39s
76: learn: 1844.9595420 test: 1839.5054049 best: 1839.5054049 (76) total: 1.48s remaining: 2.37s
77: learn: 1842.2343399 test: 1836.6952544 best: 1836.6952544 (77) total: 1.5s remaining: 2.34s
78: learn: 1840.3449785 test: 1835.1396599 best: 1835.1396599 (78) total: 1.52s remaining: 2.32s
79: learn: 1838.1659432 test: 1832.9773102 best: 1832.9773102 (79) total: 1.54s remaining: 2.31s
80: learn: 1835.8566970 test: 1831.2649380 best: 1831.2649380 (80) total: 1.56s remaining: 2.29s
81: learn: 1834.4798020 test: 1829.9600018 best: 1829.9600018 (81) total: 1.57s remaining: 2.27s
82: learn: 1832.5587773 test: 1828.2983297 best: 1828.2983297 (82) total: 1.59s remaining: 2.25s
83: learn: 1830.6459379 test: 1826.4492591 best: 1826.4492591 (83) total: 1.61s remaining: 2.23s
84: learn: 1828.9046796 test: 1824.6651116 best: 1824.6651116 (84) total: 1.63s remaining: 2.21s
85: learn: 1825.6688625 test: 1821.9191529 best: 1821.9191529 (85) total: 1.65s remaining: 2.19s
86: learn: 1823.6792104 test: 1819.6854385 best: 1819.6854385 (86) total: 1.67s remaining: 2.17s
87: learn: 1821.3727482 test: 1817.5198868 best: 1817.5198868 (87) total: 1.69s remaining: 2.15s

88: learn: 1820.1196760 test: 1816.4592152 best: 1816.4592152 (88) total: 1.71s remaining: 2.13s
89: learn: 1818.7425321 test: 1814.6903203 best: 1814.6903203 (89) total: 1.72s remaining: 2.1s
90: learn: 1817.3530063 test: 1813.2928336 best: 1813.2928336 (90) total: 1.74s remaining: 2.08s
91: learn: 1814.8186604 test: 1811.0235098 best: 1811.0235098 (91) total: 1.76s remaining: 2.07s
92: learn: 1812.9544693 test: 1809.2089561 best: 1809.2089561 (92) total: 1.78s remaining: 2.05s
93: learn: 1809.9457368 test: 1806.1320423 best: 1806.1320423 (93) total: 1.8s remaining: 2.03s
94: learn: 1807.8814929 test: 1804.1432911 best: 1804.1432911 (94) total: 1.82s remaining: 2.01s
95: learn: 1806.7861169 test: 1803.1565819 best: 1803.1565819 (95) total: 1.84s remaining: 2s
96: learn: 1805.5429181 test: 1801.9078506 best: 1801.9078506 (96) total: 1.86s remaining: 1.98s
97: learn: 1803.5514687 test: 1800.0199922 best: 1800.0199922 (97) total: 1.89s remaining: 1.96s
98: learn: 1802.2519259 test: 1798.8744058 best: 1798.8744058 (98) total: 1.91s remaining: 1.95s
99: learn: 1800.6756586 test: 1797.5411546 best: 1797.5411546 (99) total: 1.93s remaining: 1.93s
100: learn: 1799.7822760 test: 1796.7705416 best: 1796.7705416 (100) total: 1.95s remaining: 1.91s
101: learn: 1798.7100098 test: 1795.7657309 best: 1795.7657309 (101) total: 1.97s remaining: 1.89s
102: learn: 1797.4260405 test: 1794.5198626 best: 1794.5198626 (102) total: 1.98s remaining: 1.87s
103: learn: 1795.4303334 test: 1792.7845904 best: 1792.7845904 (103) total: 2s remaining: 1.85s
104: learn: 1793.7498352 test: 1791.6729168 best: 1791.6729168 (104) total: 2.03s remaining: 1.83s
105: learn: 1791.8807315 test: 1790.3490300 best: 1790.3490300 (105) total: 2.04s remaining: 1.81s
106: learn: 1790.1970630 test: 1788.8505810 best: 1788.8505810 (106) total: 2.06s remaining: 1.79s
107: learn: 1788.7467483 test: 1787.5176669 best: 1787.5176669 (107) total: 2.08s remaining: 1.77s
108: learn: 1787.2432280 test: 1786.0522499 best: 1786.0522499 (108) total: 2.1s remaining: 1.75s
109: learn: 1785.5211069 test: 1784.7064491 best: 1784.7064491 (109) total: 2.12s remaining: 1.73s
110: learn: 1784.4453257 test: 1783.7417812 best: 1783.7417812 (110) total: 2.14s remaining: 1.71s
111: learn: 1783.3239274 test: 1782.9215920 best: 1782.9215920 (111) total: 2.16s remaining: 1.7s
112: learn: 1782.1729916 test: 1782.1342853 best: 1782.1342853 (112) total: 2.17s remaining: 1.68s
113: learn: 1781.2533948 test: 1781.1387551 best: 1781.1387551 (113) total: 2.19s remaining: 1.65s
114: learn: 1779.0681193 test: 1779.1311708 best: 1779.1311708 (114) total: 2.21s remaining: 1.63s
115: learn: 1777.7833436 test: 1777.9413384 best: 1777.9413384 (115) total: 2.23s remaining: 1.62s
116: learn: 1776.4478238 test: 1776.9050358 best: 1776.9050358 (116) total: 2.25s remaining: 1.6s
117: learn: 1775.1462055 test: 1775.6203664 best: 1775.6203664 (117) total: 2.27s remaining: 1.58s
118: learn: 1773.8174657 test: 1774.4578118 best: 1774.4578118 (118) total: 2.29s remaining: 1.56s
119: learn: 1772.6846428 test: 1773.2087572 best: 1773.2087572 (119) total: 2.31s remaining: 1.54s
120: learn: 1771.6985387 test: 1772.2354515 best: 1772.2354515 (120) total: 2.32s remaining: 1.52s
121: learn: 1771.0307991 test: 1771.6337845 best: 1771.6337845 (121) total: 2.34s remaining: 1.5s
122: learn: 1769.8605592 test: 1770.6145844 best: 1770.6145844 (122) total: 2.36s remaining: 1.48s
123: learn: 1768.6955266 test: 1769.8124442 best: 1769.8124442 (123) total: 2.38s remaining: 1.46s
124: learn: 1767.7526376 test: 1769.0314692 best: 1769.0314692 (124) total: 2.4s remaining: 1.44s
125: learn: 1766.4881512 test: 1768.1750366 best: 1768.1750366 (125) total: 2.42s remaining: 1.42s
126: learn: 1765.4964798 test: 1767.1001139 best: 1767.1001139 (126) total: 2.44s remaining: 1.4s
127: learn: 1764.3922886 test: 1766.1509301 best: 1766.1509301 (127) total: 2.46s remaining: 1.38s
128: learn: 1763.0000310 test: 1764.9145880 best: 1764.9145880 (128) total: 2.48s remaining: 1.36s

129: learn: 1761.8880411 test: 1763.9951880 best: 1763.9951880 (129) total: 2.49s remaining: 1.34s
130: learn: 1760.6502260 test: 1762.9417579 best: 1762.9417579 (130) total: 2.51s remaining: 1.32s
131: learn: 1759.0133790 test: 1761.4655958 best: 1761.4655958 (131) total: 2.54s remaining: 1.31s
132: learn: 1757.7441986 test: 1760.2022992 best: 1760.2022992 (132) total: 2.56s remaining: 1.29s
133: learn: 1756.8828647 test: 1759.2944337 best: 1759.2944337 (133) total: 2.57s remaining: 1.27s
134: learn: 1755.3616625 test: 1758.1428177 best: 1758.1428177 (134) total: 2.59s remaining: 1.25s
135: learn: 1754.4327599 test: 1757.4977872 best: 1757.4977872 (135) total: 2.61s remaining: 1.23s
136: learn: 1752.9739031 test: 1756.6327970 best: 1756.6327970 (136) total: 2.63s remaining: 1.21s
137: learn: 1751.8431422 test: 1755.3863630 best: 1755.3863630 (137) total: 2.65s remaining: 1.19s
138: learn: 1750.9788456 test: 1754.5543781 best: 1754.5543781 (138) total: 2.67s remaining: 1.17s
139: learn: 1748.9200045 test: 1752.6926759 best: 1752.6926759 (139) total: 2.69s remaining: 1.15s
140: learn: 1747.7564482 test: 1751.5708277 best: 1751.5708277 (140) total: 2.71s remaining: 1.14s
141: learn: 1746.5555650 test: 1750.3628474 best: 1750.3628474 (141) total: 2.73s remaining: 1.12s
142: learn: 1745.6298288 test: 1749.7100351 best: 1749.7100351 (142) total: 2.75s remaining: 1.1s
143: learn: 1744.8020880 test: 1749.1592528 best: 1749.1592528 (143) total: 2.77s remaining: 1.08s
144: learn: 1744.1535926 test: 1748.4463576 best: 1748.4463576 (144) total: 2.79s remaining: 1.06s
145: learn: 1742.9683052 test: 1747.4333476 best: 1747.4333476 (145) total: 2.81s remaining: 1.04s
146: learn: 1741.7395305 test: 1746.6882483 best: 1746.6882483 (146) total: 2.83s remaining: 1.02s
147: learn: 1741.1564538 test: 1746.1582633 best: 1746.1582633 (147) total: 2.85s remaining: 1000ms
148: learn: 1740.2479487 test: 1745.3263688 best: 1745.3263688 (148) total: 2.86s remaining: 980ms
149: learn: 1739.0030194 test: 1744.2271924 best: 1744.2271924 (149) total: 2.88s remaining: 961ms
150: learn: 1737.9151570 test: 1743.0800157 best: 1743.0800157 (150) total: 2.9s remaining: 942ms
151: learn: 1737.2784816 test: 1742.5376718 best: 1742.5376718 (151) total: 2.92s remaining: 922ms
152: learn: 1736.4318472 test: 1741.6300818 best: 1741.6300818 (152) total: 2.94s remaining: 903ms
153: learn: 1735.8391325 test: 1741.0344213 best: 1741.0344213 (153) total: 2.96s remaining: 883ms
154: learn: 1734.6494182 test: 1739.8365872 best: 1739.8365872 (154) total: 2.97s remaining: 864ms
155: learn: 1733.8362392 test: 1739.1453489 best: 1739.1453489 (155) total: 2.99s remaining: 844ms
156: learn: 1732.3483237 test: 1738.0354841 best: 1738.0354841 (156) total: 3.02s remaining: 827ms
157: learn: 1731.5213715 test: 1737.3657794 best: 1737.3657794 (157) total: 3.04s remaining: 807ms
158: learn: 1730.1871684 test: 1736.5666801 best: 1736.5666801 (158) total: 3.06s remaining: 788ms
159: learn: 1729.2628228 test: 1735.8035288 best: 1735.8035288 (159) total: 3.07s remaining: 769ms
160: learn: 1728.5180787 test: 1735.1684666 best: 1735.1684666 (160) total: 3.09s remaining: 749ms
161: learn: 1727.9029142 test: 1734.9171053 best: 1734.9171053 (161) total: 3.11s remaining: 730ms
162: learn: 1727.0377210 test: 1733.8762083 best: 1733.8762083 (162) total: 3.13s remaining: 711ms
163: learn: 1726.1372612 test: 1733.3947345 best: 1733.3947345 (163) total: 3.15s remaining: 692ms
164: learn: 1725.1457850 test: 1732.8752193 best: 1732.8752193 (164) total: 3.17s remaining: 673ms
165: learn: 1724.3743357 test: 1732.5076463 best: 1732.5076463 (165) total: 3.19s remaining: 653ms
166: learn: 1723.4285489 test: 1731.6319506 best: 1731.6319506 (166) total: 3.21s remaining: 634ms
167: learn: 1722.5848793 test: 1730.9748530 best: 1730.9748530 (167) total: 3.24s remaining: 616ms
168: learn: 1721.4090151 test: 1730.0695951 best: 1730.0695951 (168) total: 3.26s remaining: 597ms
169: learn: 1720.3321242 test: 1729.1240803 best: 1729.1240803 (169) total: 3.27s remaining: 578ms
170: learn: 1719.6619614 test: 1728.7519766 best: 1728.7519766 (170) total: 3.29s remaining: 558ms

170: learn: 1715.0015014 test: 1728.7515700 best: 1728.7515700 (170) total: 3.25s remaining: 350ms
171: learn: 1718.7163501 test: 1728.0335835 best: 1728.0335835 (171) total: 3.31s remaining: 539ms
172: learn: 1718.0347541 test: 1727.4811483 best: 1727.4811483 (172) total: 3.33s remaining: 520ms
173: learn: 1717.1148488 test: 1726.4875728 best: 1726.4875728 (173) total: 3.35s remaining: 500ms
174: learn: 1716.6437408 test: 1726.0092372 best: 1726.0092372 (174) total: 3.37s remaining: 481ms
175: learn: 1715.8710282 test: 1725.3741699 best: 1725.3741699 (175) total: 3.38s remaining: 462ms
176: learn: 1715.2477315 test: 1724.8879267 best: 1724.8879267 (176) total: 3.41s remaining: 443ms
177: learn: 1714.5937301 test: 1724.4743757 best: 1724.4743757 (177) total: 3.43s remaining: 424ms
178: learn: 1713.7676286 test: 1723.8251801 best: 1723.8251801 (178) total: 3.44s remaining: 404ms
179: learn: 1712.7823270 test: 1722.8997041 best: 1722.8997041 (179) total: 3.46s remaining: 385ms
180: learn: 1711.9799249 test: 1722.1338662 best: 1722.1338662 (180) total: 3.48s remaining: 365ms
181: learn: 1711.4692700 test: 1721.6924516 best: 1721.6924516 (181) total: 3.5s remaining: 346ms
182: learn: 1710.6243142 test: 1721.3700251 best: 1721.3700251 (182) total: 3.52s remaining: 327ms
183: learn: 1710.1841582 test: 1720.9592890 best: 1720.9592890 (183) total: 3.54s remaining: 308ms
184: learn: 1709.2652113 test: 1719.9865471 best: 1719.9865471 (184) total: 3.56s remaining: 288ms
185: learn: 1708.3767089 test: 1719.4162975 best: 1719.4162975 (185) total: 3.57s remaining: 269ms
186: learn: 1707.5202906 test: 1718.9375708 best: 1718.9375708 (186) total: 3.59s remaining: 250ms
187: learn: 1706.5347964 test: 1717.8396538 best: 1717.8396538 (187) total: 3.61s remaining: 231ms
188: learn: 1705.9139513 test: 1717.3238936 best: 1717.3238936 (188) total: 3.63s remaining: 211ms
189: learn: 1704.7949581 test: 1716.3794590 best: 1716.3794590 (189) total: 3.65s remaining: 192ms
190: learn: 1704.1694500 test: 1715.6668254 best: 1715.6668254 (190) total: 3.67s remaining: 173ms
191: learn: 1703.6327119 test: 1715.1925599 best: 1715.1925599 (191) total: 3.69s remaining: 154ms
192: learn: 1703.2293155 test: 1714.8341829 best: 1714.8341829 (192) total: 3.7s remaining: 134ms
193: learn: 1702.5310761 test: 1714.3531282 best: 1714.3531282 (193) total: 3.73s remaining: 115ms
194: learn: 1701.8129784 test: 1713.5875332 best: 1713.5875332 (194) total: 3.74s remaining: 96ms
195: learn: 1700.7851747 test: 1712.9741042 best: 1712.9741042 (195) total: 3.76s remaining: 76.8ms
196: learn: 1700.1428388 test: 1712.3576149 best: 1712.3576149 (196) total: 3.78s remaining: 57.6ms
197: learn: 1699.2884161 test: 1711.6117528 best: 1711.6117528 (197) total: 3.8s remaining: 38.4ms
198: learn: 1698.6742295 test: 1711.3535052 best: 1711.3535052 (198) total: 3.82s remaining: 19.2ms
199: learn: 1698.0054676 test: 1710.9645798 best: 1710.9645798 (199) total: 3.83s remaining: 0us

bestTest = 1710.96458

bestIteration = 199

71: loss: 1710.9645798 best: 1709.4122952 (65) total: 3m 2s remaining: 1m
0: learn: 6802.4650498 test: 6829.7849825 best: 6829.7849825 (0) total: 28.7ms remaining: 2.84s
1: learn: 6628.5063111 test: 6655.5788597 best: 6655.5788597 (1) total: 53.4ms remaining: 2.62s
2: learn: 6459.9296609 test: 6486.8893716 best: 6486.8893716 (2) total: 83.7ms remaining: 2.71s
3: learn: 6298.5448478 test: 6325.7734785 best: 6325.7734785 (3) total: 109ms remaining: 2.61s
4: learn: 6142.3874791 test: 6169.2818898 best: 6169.2818898 (4) total: 134ms remaining: 2.55s
5: learn: 5990.4442651 test: 6017.1847327 best: 6017.1847327 (5) total: 160ms remaining: 2.5s
6: learn: 5843.3977700 test: 5870.1886390 best: 5870.1886390 (6) total: 186ms remaining: 2.47s

7: learn: 5702.3710468 test: 5728.8407237 best: 5728.8407237 (7) total: 211ms remaining: 2.43s
8: learn: 5565.4138791 test: 5591.5293266 best: 5591.5293266 (8) total: 236ms remaining: 2.39s
9: learn: 5432.3041119 test: 5458.1585702 best: 5458.1585702 (9) total: 273ms remaining: 2.46s
10: learn: 5303.4362787 test: 5329.6977546 best: 5329.6977546 (10) total: 298ms remaining: 2.41s
11: learn: 5179.4060792 test: 5205.4944242 best: 5205.4944242 (11) total: 325ms remaining: 2.38s
12: learn: 5060.6765757 test: 5086.5156494 best: 5086.5156494 (12) total: 350ms remaining: 2.34s
13: learn: 4943.8014383 test: 4969.4190656 best: 4969.4190656 (13) total: 377ms remaining: 2.32s
14: learn: 4831.4322938 test: 4856.6171912 best: 4856.6171912 (14) total: 403ms remaining: 2.29s
15: learn: 4723.9710628 test: 4748.9899456 best: 4748.9899456 (15) total: 428ms remaining: 2.25s
16: learn: 4619.1310303 test: 4643.5125399 best: 4643.5125399 (16) total: 455ms remaining: 2.22s
17: learn: 4518.4510630 test: 4542.5853519 best: 4542.5853519 (17) total: 484ms remaining: 2.21s
18: learn: 4420.8849778 test: 4444.6078089 best: 4444.6078089 (18) total: 509ms remaining: 2.17s
19: learn: 4325.2433001 test: 4348.8027750 best: 4348.8027750 (19) total: 532ms remaining: 2.13s
20: learn: 4233.3684294 test: 4256.4725648 best: 4256.4725648 (20) total: 556ms remaining: 2.09s
21: learn: 4145.8345495 test: 4168.5259523 best: 4168.5259523 (21) total: 585ms remaining: 2.07s
22: learn: 4061.5203050 test: 4083.8530144 best: 4083.8530144 (22) total: 611ms remaining: 2.05s
23: learn: 3979.2395342 test: 4001.3572480 best: 4001.3572480 (23) total: 635ms remaining: 2.01s
24: learn: 3901.3917349 test: 3922.8770666 best: 3922.8770666 (24) total: 663ms remaining: 1.99s
25: learn: 3826.5356235 test: 3847.4905000 best: 3847.4905000 (25) total: 689ms remaining: 1.96s
26: learn: 3754.6769805 test: 3775.4105699 best: 3775.4105699 (26) total: 716ms remaining: 1.94s
27: learn: 3684.0489974 test: 3704.3947331 best: 3704.3947331 (27) total: 741ms remaining: 1.91s
28: learn: 3616.6016924 test: 3636.6988987 best: 3636.6988987 (28) total: 767ms remaining: 1.88s
29: learn: 3551.5083485 test: 3571.3038701 best: 3571.3038701 (29) total: 791ms remaining: 1.85s
30: learn: 3489.5850522 test: 3509.0810900 best: 3509.0810900 (30) total: 817ms remaining: 1.82s
31: learn: 3429.4452877 test: 3448.4849461 best: 3448.4849461 (31) total: 842ms remaining: 1.79s
32: learn: 3369.8086892 test: 3388.4033798 best: 3388.4033798 (32) total: 872ms remaining: 1.77s
33: learn: 3312.8364716 test: 3331.1891566 best: 3331.1891566 (33) total: 900ms remaining: 1.75s
34: learn: 3257.1278142 test: 3274.9817866 best: 3274.9817866 (34) total: 924ms remaining: 1.72s
35: learn: 3203.8541307 test: 3221.3796312 best: 3221.3796312 (35) total: 948ms remaining: 1.69s
36: learn: 3152.4955485 test: 3169.6145480 best: 3169.6145480 (36) total: 974ms remaining: 1.66s
37: learn: 3103.0907210 test: 3120.0202919 best: 3120.0202919 (37) total: 998ms remaining: 1.63s
38: learn: 3056.5686714 test: 3073.0804207 best: 3073.0804207 (38) total: 1.02s remaining: 1.6s
39: learn: 3012.2316969 test: 3028.2676273 best: 3028.2676273 (39) total: 1.05s remaining: 1.57s
40: learn: 2969.8314146 test: 2985.4908392 best: 2985.4908392 (40) total: 1.08s remaining: 1.55s
41: learn: 2928.8548752 test: 2943.8346181 best: 2943.8346181 (41) total: 1.1s remaining: 1.52s
42: learn: 2889.4684489 test: 2904.2143631 best: 2904.2143631 (42) total: 1.13s remaining: 1.49s
43: learn: 2850.9445540 test: 2865.2467334 best: 2865.2467334 (43) total: 1.15s remaining: 1.47s
44: learn: 2814.6719990 test: 2828.5439418 best: 2828.5439418 (44) total: 1.18s remaining: 1.44s
45: learn: 2779.3897668 test: 2792.7731168 best: 2792.7731168 (45) total: 1.2s remaining: 1.41s
46: learn: 2745.7238168 test: 2758.7330161 best: 2758.7330161 (46) total: 1.23s remaining: 1.38s
47: learn: 2712.6572282 test: 2725.3177278 best: 2725.3177278 (47) total: 1.26s remaining: 1.36s

48: learn: 2682.0990098 test: 2694.3797101 best: 2694.3797101 (48) total: 1.28s remaining: 1.33s
49: learn: 2652.1524814 test: 2664.2830048 best: 2664.2830048 (49) total: 1.31s remaining: 1.31s
50: learn: 2623.3358325 test: 2634.8737489 best: 2634.8737489 (50) total: 1.33s remaining: 1.28s
51: learn: 2596.5263253 test: 2608.0707375 best: 2608.0707375 (51) total: 1.36s remaining: 1.25s
52: learn: 2570.6727868 test: 2581.7038065 best: 2581.7038065 (52) total: 1.38s remaining: 1.22s
53: learn: 2545.1209175 test: 2555.7784018 best: 2555.7784018 (53) total: 1.4s remaining: 1.2s
54: learn: 2521.1334859 test: 2531.3392481 best: 2531.3392481 (54) total: 1.43s remaining: 1.17s
55: learn: 2498.0703432 test: 2507.9393867 best: 2507.9393867 (55) total: 1.46s remaining: 1.15s
56: learn: 2475.2419540 test: 2485.0136683 best: 2485.0136683 (56) total: 1.48s remaining: 1.12s
57: learn: 2453.0587707 test: 2462.4480370 best: 2462.4480370 (57) total: 1.51s remaining: 1.09s
58: learn: 2430.9799399 test: 2440.1740864 best: 2440.1740864 (58) total: 1.53s remaining: 1.07s
59: learn: 2411.1951542 test: 2419.8976083 best: 2419.8976083 (59) total: 1.56s remaining: 1.04s
60: learn: 2391.4673937 test: 2399.6594567 best: 2399.6594567 (60) total: 1.58s remaining: 1.01s
61: learn: 2373.7322544 test: 2381.6650650 best: 2381.6650650 (61) total: 1.61s remaining: 986ms
62: learn: 2356.6075884 test: 2364.0973101 best: 2364.0973101 (62) total: 1.64s remaining: 961ms
63: learn: 2337.0748217 test: 2344.2602274 best: 2344.2602274 (63) total: 1.66s remaining: 936ms
64: learn: 2318.2371492 test: 2325.1583089 best: 2325.1583089 (64) total: 1.69s remaining: 909ms
65: learn: 2302.8652588 test: 2309.4814384 best: 2309.4814384 (65) total: 1.71s remaining: 883ms
66: learn: 2287.9549709 test: 2294.3660727 best: 2294.3660727 (66) total: 1.74s remaining: 856ms
67: learn: 2273.9702497 test: 2279.9749035 best: 2279.9749035 (67) total: 1.76s remaining: 830ms
68: learn: 2259.2751522 test: 2265.1182335 best: 2265.1182335 (68) total: 1.79s remaining: 803ms
69: learn: 2244.3764286 test: 2249.9193990 best: 2249.9193990 (69) total: 1.81s remaining: 777ms
70: learn: 2231.3966433 test: 2236.8553931 best: 2236.8553931 (70) total: 1.83s remaining: 750ms
71: learn: 2218.1943909 test: 2223.3266694 best: 2223.3266694 (71) total: 1.86s remaining: 724ms
72: learn: 2206.3929932 test: 2211.1754207 best: 2211.1754207 (72) total: 1.89s remaining: 699ms
73: learn: 2194.9344032 test: 2199.5935710 best: 2199.5935710 (73) total: 1.91s remaining: 672ms
74: learn: 2183.2200291 test: 2187.5963089 best: 2187.5963089 (74) total: 1.94s remaining: 645ms
75: learn: 2171.1943942 test: 2175.2500524 best: 2175.2500524 (75) total: 1.96s remaining: 619ms
76: learn: 2160.5877432 test: 2164.2756713 best: 2164.2756713 (76) total: 1.98s remaining: 592ms
77: learn: 2151.0527850 test: 2154.5673708 best: 2154.5673708 (77) total: 2s remaining: 566ms
78: learn: 2139.8763850 test: 2142.9600348 best: 2142.9600348 (78) total: 2.03s remaining: 539ms
79: learn: 2130.4916561 test: 2133.3645610 best: 2133.3645610 (79) total: 2.05s remaining: 513ms
80: learn: 2121.3467205 test: 2124.0824196 best: 2124.0824196 (80) total: 2.08s remaining: 487ms
81: learn: 2112.8528044 test: 2115.2513985 best: 2115.2513985 (81) total: 2.1s remaining: 461ms
82: learn: 2103.7521192 test: 2105.9333791 best: 2105.9333791 (82) total: 2.12s remaining: 435ms
83: learn: 2095.8855832 test: 2097.8578556 best: 2097.8578556 (83) total: 2.15s remaining: 410ms
84: learn: 2088.4382133 test: 2090.2997153 best: 2090.2997153 (84) total: 2.18s remaining: 384ms
85: learn: 2081.3796244 test: 2083.1183984 best: 2083.1183984 (85) total: 2.2s remaining: 358ms
86: learn: 2072.8478517 test: 2074.4305621 best: 2074.4305621 (86) total: 2.22s remaining: 332ms
87: learn: 2066.1761457 test: 2067.6277053 best: 2067.6277053 (87) total: 2.26s remaining: 308ms
88: learn: 2058.0121205 test: 2059.3148146 best: 2059.3148146 (88) total: 2.28s remaining: 282ms

89: learn: 2051.4569199 test: 2052.5553021 best: 2052.5553021 (89) total: 2.31s remaining: 257ms
90: learn: 2045.1037922 test: 2045.9843985 best: 2045.9843985 (90) total: 2.33s remaining: 231ms
91: learn: 2038.7033980 test: 2039.5363293 best: 2039.5363293 (91) total: 2.36s remaining: 205ms
92: learn: 2032.6313141 test: 2033.5241622 best: 2033.5241622 (92) total: 2.38s remaining: 179ms
93: learn: 2026.5973411 test: 2027.3770669 best: 2027.3770669 (93) total: 2.41s remaining: 154ms
94: learn: 2021.0487298 test: 2021.5650385 best: 2021.5650385 (94) total: 2.43s remaining: 128ms
95: learn: 2014.6341932 test: 2014.9848853 best: 2014.9848853 (95) total: 2.45s remaining: 102ms
96: learn: 2009.7061149 test: 2009.6857619 best: 2009.6857619 (96) total: 2.48s remaining: 76.6ms
97: learn: 2003.7457826 test: 2003.6755372 best: 2003.6755372 (97) total: 2.5s remaining: 51ms
98: learn: 1999.1293893 test: 1998.8443995 best: 1998.8443995 (98) total: 2.52s remaining: 25.5ms
99: learn: 1994.5047977 test: 1994.1442035 best: 1994.1442035 (99) total: 2.55s remaining: 0us

bestTest = 1994.144203

bestIteration = 99

72: loss: 1994.1442035 best: 1709.4122952 (65) total: 3m 5s remaining: 58.4s
0: learn: 6386.4907368 test: 6411.9963701 best: 6411.9963701 (0) total: 26.5ms remaining: 2.63s
1: learn: 5855.2051814 test: 5880.5311007 best: 5880.5311007 (1) total: 57.6ms remaining: 2.82s
2: learn: 5382.3746586 test: 5407.3462822 best: 5407.3462822 (2) total: 83.5ms remaining: 2.7s
3: learn: 4964.9458514 test: 4989.4562940 best: 4989.4562940 (3) total: 110ms remaining: 2.64s
4: learn: 4600.1245506 test: 4623.3901092 best: 4623.3901092 (4) total: 135ms remaining: 2.57s
5: learn: 4271.7974969 test: 4293.3856094 best: 4293.3856094 (5) total: 161ms remaining: 2.52s
6: learn: 3978.1148839 test: 3997.8835601 best: 3997.8835601 (6) total: 191ms remaining: 2.54s
7: learn: 3722.7138839 test: 3741.3433098 best: 3741.3433098 (7) total: 216ms remaining: 2.49s
8: learn: 3496.8398188 test: 3513.3481026 best: 3513.3481026 (8) total: 242ms remaining: 2.44s
9: learn: 3293.4342222 test: 3308.7678804 best: 3308.7678804 (9) total: 267ms remaining: 2.4s
10: learn: 3117.2854759 test: 3131.8548819 best: 3131.8548819 (10) total: 296ms remaining: 2.39s
11: learn: 2963.0224170 test: 2975.9637313 best: 2975.9637313 (11) total: 321ms remaining: 2.36s
12: learn: 2830.0710675 test: 2841.5017247 best: 2841.5017247 (12) total: 348ms remaining: 2.33s
13: learn: 2715.5482236 test: 2725.5425050 best: 2725.5425050 (13) total: 374ms remaining: 2.29s
14: learn: 2612.8125735 test: 2621.6008253 best: 2621.6008253 (14) total: 403ms remaining: 2.29s
15: learn: 2528.7864262 test: 2536.9840093 best: 2536.9840093 (15) total: 429ms remaining: 2.25s
16: learn: 2452.6874381 test: 2459.6859152 best: 2459.6859152 (16) total: 455ms remaining: 2.22s
17: learn: 2388.1852923 test: 2395.4223898 best: 2395.4223898 (17) total: 479ms remaining: 2.18s
18: learn: 2329.7929959 test: 2335.8968719 best: 2335.8968719 (18) total: 503ms remaining: 2.14s
19: learn: 2272.9148587 test: 2277.4276883 best: 2277.4276883 (19) total: 527ms remaining: 2.11s
20: learn: 2221.7195707 test: 2224.9617543 best: 2224.9617543 (20) total: 557ms remaining: 2.09s
21: learn: 2183.1321532 test: 2184.5456658 best: 2184.5456658 (21) total: 584ms remaining: 2.07s
22: learn: 2142.6369687 test: 2143.1245211 best: 2143.1245211 (22) total: 613ms remaining: 2.05s
23: learn: 2111.9967788 test: 2111.2648752 best: 2111.2648752 (23) total: 639ms remaining: 2.02s
24: learn: 2086.4336511 test: 2084.7557596 best: 2084.7557596 (24) total: 664ms remaining: 1.99s
25: learn: 2062.1196787 test: 2059.8737662 best: 2059.8737662 (25) total: 691ms remaining: 1.97s

26: learn: 2039.5139542 test: 2036.5882456 best: 2036.5882456 (26) total: 714ms remaining: 1.93s
27: learn: 2019.5477497 test: 2016.7811757 best: 2016.7811757 (27) total: 738ms remaining: 1.9s
28: learn: 2003.0909272 test: 2000.2601540 best: 2000.2601540 (28) total: 762ms remaining: 1.87s
29: learn: 1987.9007701 test: 1984.7180957 best: 1984.7180957 (29) total: 787ms remaining: 1.84s
30: learn: 1971.7318297 test: 1968.4050603 best: 1968.4050603 (30) total: 812ms remaining: 1.81s
31: learn: 1959.5433357 test: 1956.0250535 best: 1956.0250535 (31) total: 836ms remaining: 1.77s
32: learn: 1948.4066954 test: 1944.6304879 best: 1944.6304879 (32) total: 860ms remaining: 1.75s
33: learn: 1938.3965727 test: 1934.6378425 best: 1934.6378425 (33) total: 887ms remaining: 1.72s
34: learn: 1928.6528387 test: 1924.3535101 best: 1924.3535101 (34) total: 911ms remaining: 1.69s
35: learn: 1919.4446338 test: 1915.7017293 best: 1915.7017293 (35) total: 936ms remaining: 1.66s
36: learn: 1910.3805867 test: 1906.6628058 best: 1906.6628058 (36) total: 961ms remaining: 1.64s
37: learn: 1902.6253312 test: 1898.6819360 best: 1898.6819360 (37) total: 984ms remaining: 1.6s
38: learn: 1895.8963106 test: 1892.2166797 best: 1892.2166797 (38) total: 1.01s remaining: 1.57s
39: learn: 1889.5880305 test: 1886.4813671 best: 1886.4813671 (39) total: 1.03s remaining: 1.54s
40: learn: 1883.8415784 test: 1880.8712730 best: 1880.8712730 (40) total: 1.05s remaining: 1.51s
41: learn: 1878.4613616 test: 1875.7007876 best: 1875.7007876 (41) total: 1.08s remaining: 1.49s
42: learn: 1872.6016542 test: 1869.8810475 best: 1869.8810475 (42) total: 1.1s remaining: 1.46s
43: learn: 1867.8293492 test: 1864.9851209 best: 1864.9851209 (43) total: 1.13s remaining: 1.43s
44: learn: 1861.2313603 test: 1859.0981682 best: 1859.0981682 (44) total: 1.15s remaining: 1.41s
45: learn: 1855.4352462 test: 1853.7281072 best: 1853.7281072 (45) total: 1.18s remaining: 1.38s
46: learn: 1850.7020260 test: 1849.3222802 best: 1849.3222802 (46) total: 1.2s remaining: 1.35s
47: learn: 1846.8415537 test: 1845.5991094 best: 1845.5991094 (47) total: 1.22s remaining: 1.32s
48: learn: 1842.3499991 test: 1841.5419681 best: 1841.5419681 (48) total: 1.25s remaining: 1.3s
49: learn: 1837.7218851 test: 1837.0761258 best: 1837.0761258 (49) total: 1.27s remaining: 1.27s
50: learn: 1834.3287158 test: 1833.4006095 best: 1833.4006095 (50) total: 1.3s remaining: 1.25s
51: learn: 1830.6034251 test: 1829.9861393 best: 1829.9861393 (51) total: 1.32s remaining: 1.22s
52: learn: 1827.8984488 test: 1827.0562604 best: 1827.0562604 (52) total: 1.34s remaining: 1.19s
53: learn: 1823.3263805 test: 1822.5054628 best: 1822.5054628 (53) total: 1.36s remaining: 1.16s
54: learn: 1819.3123790 test: 1818.7899840 best: 1818.7899840 (54) total: 1.39s remaining: 1.14s
55: learn: 1815.7013936 test: 1815.0679690 best: 1815.0679690 (55) total: 1.41s remaining: 1.11s
56: learn: 1812.0386997 test: 1812.5213171 best: 1812.5213171 (56) total: 1.44s remaining: 1.08s
57: learn: 1809.4611697 test: 1810.2823680 best: 1810.2823680 (57) total: 1.46s remaining: 1.05s
58: learn: 1806.6468257 test: 1807.4229208 best: 1807.4229208 (58) total: 1.49s remaining: 1.03s
59: learn: 1803.9504771 test: 1805.0042185 best: 1805.0042185 (59) total: 1.51s remaining: 1.01s
60: learn: 1801.2749099 test: 1802.8920271 best: 1802.8920271 (60) total: 1.53s remaining: 980ms
61: learn: 1798.3553353 test: 1800.4166297 best: 1800.4166297 (61) total: 1.56s remaining: 954ms
62: learn: 1795.6865485 test: 1798.0081341 best: 1798.0081341 (62) total: 1.58s remaining: 928ms
63: learn: 1792.7396285 test: 1795.9024603 best: 1795.9024603 (63) total: 1.6s remaining: 902ms
64: learn: 1790.4570860 test: 1793.7850243 best: 1793.7850243 (64) total: 1.63s remaining: 875ms
65: learn: 1785.9938742 test: 1790.9481866 best: 1790.9481866 (65) total: 1.65s remaining: 851ms
66: learn: 1783.7971046 test: 1788.9872065 best: 1788.9872065 (66) total: 1.68s remaining: 827ms

67: learn: 1781.1546639 test: 1786.3170865 best: 1786.3170865 (67) total: 1.7s remaining: 802ms
68: learn: 1777.6314654 test: 1783.1066338 best: 1783.1066338 (68) total: 1.73s remaining: 777ms
69: learn: 1773.6954421 test: 1779.5654995 best: 1779.5654995 (69) total: 1.75s remaining: 752ms
70: learn: 1771.1560503 test: 1777.0025273 best: 1777.0025273 (70) total: 1.78s remaining: 726ms
71: learn: 1768.7276962 test: 1775.5607706 best: 1775.5607706 (71) total: 1.8s remaining: 701ms
72: learn: 1766.0730117 test: 1773.2028752 best: 1773.2028752 (72) total: 1.83s remaining: 676ms
73: learn: 1764.3085796 test: 1771.3376842 best: 1771.3376842 (73) total: 1.85s remaining: 650ms
74: learn: 1762.9665005 test: 1770.1823173 best: 1770.1823173 (74) total: 1.88s remaining: 626ms
75: learn: 1760.9210837 test: 1768.5189629 best: 1768.5189629 (75) total: 1.9s remaining: 601ms
76: learn: 1759.6478249 test: 1767.2989662 best: 1767.2989662 (76) total: 1.92s remaining: 574ms
77: learn: 1756.1243201 test: 1764.4139854 best: 1764.4139854 (77) total: 1.95s remaining: 549ms
78: learn: 1753.9550186 test: 1762.7242592 best: 1762.7242592 (78) total: 1.97s remaining: 524ms
79: learn: 1751.9915694 test: 1761.0753523 best: 1761.0753523 (79) total: 1.99s remaining: 499ms
80: learn: 1750.1542263 test: 1759.5375017 best: 1759.5375017 (80) total: 2.02s remaining: 473ms
81: learn: 1748.1481938 test: 1757.6470003 best: 1757.6470003 (81) total: 2.04s remaining: 447ms
82: learn: 1745.2108348 test: 1754.9420408 best: 1754.9420408 (82) total: 2.06s remaining: 423ms
83: learn: 1743.8383519 test: 1753.8528942 best: 1753.8528942 (83) total: 2.09s remaining: 398ms
84: learn: 1742.2869061 test: 1752.3697218 best: 1752.3697218 (84) total: 2.12s remaining: 373ms
85: learn: 1740.8936048 test: 1751.6933133 best: 1751.6933133 (85) total: 2.14s remaining: 348ms
86: learn: 1739.2850499 test: 1750.1931346 best: 1750.1931346 (86) total: 2.16s remaining: 323ms
87: learn: 1737.7843847 test: 1748.7334918 best: 1748.7334918 (87) total: 2.19s remaining: 298ms
88: learn: 1736.2181967 test: 1747.2502802 best: 1747.2502802 (88) total: 2.21s remaining: 273ms
89: learn: 1735.0205442 test: 1746.4557955 best: 1746.4557955 (89) total: 2.23s remaining: 248ms
90: learn: 1733.0783668 test: 1744.4941055 best: 1744.4941055 (90) total: 2.26s remaining: 223ms
91: learn: 1731.8081349 test: 1743.7152847 best: 1743.7152847 (91) total: 2.28s remaining: 198ms
92: learn: 1730.8945929 test: 1742.9141149 best: 1742.9141149 (92) total: 2.3s remaining: 173ms
93: learn: 1729.4868331 test: 1741.6003113 best: 1741.6003113 (93) total: 2.32s remaining: 148ms
94: learn: 1727.3406029 test: 1739.8756925 best: 1739.8756925 (94) total: 2.35s remaining: 124ms
95: learn: 1726.2921432 test: 1739.1758180 best: 1739.1758180 (95) total: 2.37s remaining: 98.9ms
96: learn: 1723.9143081 test: 1737.5229639 best: 1737.5229639 (96) total: 2.4s remaining: 74.2ms
97: learn: 1721.9186518 test: 1735.9706281 best: 1735.9706281 (97) total: 2.42s remaining: 49.4ms
98: learn: 1720.5215279 test: 1735.1526626 best: 1735.1526626 (98) total: 2.44s remaining: 24.7ms
99: learn: 1719.0150900 test: 1734.1082818 best: 1734.1082818 (99) total: 2.47s remaining: 0us

bestTest = 1734.108282

bestIteration = 99

73: loss: 1734.1082818 best: 1709.4122952 (65) total: 3m 8s remaining: 55.9s
0: learn: 6802.5132113 test: 6829.8331841 best: 6829.8331841 (0) total: 34.9ms remaining: 3.45s
1: learn: 6628.5971789 test: 6655.6690697 best: 6655.6690697 (1) total: 65.5ms remaining: 3.21s
2: learn: 6460.0535409 test: 6487.0132608 best: 6487.0132608 (2) total: 99.5ms remaining: 3.22s

3: learn: 6298.6880104 test: 6325.9153704 best: 6325.9153704 (3) total: 130ms remaining: 3.12s
4: learn: 6142.5771726 test: 6169.4664935 best: 6169.4664935 (4) total: 161ms remaining: 3.06s
5: learn: 5990.6822079 test: 6017.4188793 best: 6017.4188793 (5) total: 192ms remaining: 3s
6: learn: 5843.6786600 test: 5870.4552624 best: 5870.4552624 (6) total: 221ms remaining: 2.94s
7: learn: 5702.6636008 test: 5729.1187348 best: 5729.1187348 (7) total: 246ms remaining: 2.83s
8: learn: 5565.7334838 test: 5591.8355128 best: 5591.8355128 (8) total: 271ms remaining: 2.74s
9: learn: 5432.6565485 test: 5458.4948666 best: 5458.4948666 (9) total: 298ms remaining: 2.68s
10: learn: 5303.8063615 test: 5330.0508204 best: 5330.0508204 (10) total: 323ms remaining: 2.61s
11: learn: 5179.7979665 test: 5205.8720038 best: 5205.8720038 (11) total: 349ms remaining: 2.56s
12: learn: 5061.1137978 test: 5086.9292855 best: 5086.9292855 (12) total: 375ms remaining: 2.51s
13: learn: 4944.2845852 test: 4969.8727975 best: 4969.8727975 (13) total: 402ms remaining: 2.47s
14: learn: 4831.9388682 test: 4857.0944235 best: 4857.0944235 (14) total: 428ms remaining: 2.42s
15: learn: 4724.4802651 test: 4749.4705898 best: 4749.4705898 (15) total: 453ms remaining: 2.38s
16: learn: 4619.6679141 test: 4644.0148905 best: 4644.0148905 (16) total: 484ms remaining: 2.36s
17: learn: 4518.9901907 test: 4543.0890903 best: 4543.0890903 (17) total: 509ms remaining: 2.32s
18: learn: 4421.4312967 test: 4445.1177178 best: 4445.1177178 (18) total: 533ms remaining: 2.27s
19: learn: 4325.7877041 test: 4349.3110736 best: 4349.3110736 (19) total: 558ms remaining: 2.23s
20: learn: 4233.9258462 test: 4256.9879280 best: 4256.9879280 (20) total: 584ms remaining: 2.2s
21: learn: 4146.4015179 test: 4169.0473297 best: 4169.0473297 (21) total: 611ms remaining: 2.17s
22: learn: 4062.0951059 test: 4084.3788405 best: 4084.3788405 (22) total: 640ms remaining: 2.14s
23: learn: 3979.8153299 test: 4001.8852832 best: 4001.8852832 (23) total: 663ms remaining: 2.1s
24: learn: 3901.9992598 test: 3923.4364775 best: 3923.4364775 (24) total: 693ms remaining: 2.08s
25: learn: 3827.1514478 test: 3848.0587288 best: 3848.0587288 (25) total: 719ms remaining: 2.05s
26: learn: 3755.3107164 test: 3775.9867610 best: 3775.9867610 (26) total: 744ms remaining: 2.01s
27: learn: 3684.6779889 test: 3704.9658167 best: 3704.9658167 (27) total: 769ms remaining: 1.98s
28: learn: 3617.2349854 test: 3637.2726285 best: 3637.2726285 (28) total: 795ms remaining: 1.95s
29: learn: 3552.1677084 test: 3571.8970443 best: 3571.8970443 (29) total: 821ms remaining: 1.92s
30: learn: 3490.2472304 test: 3509.6791875 best: 3509.6791875 (30) total: 846ms remaining: 1.88s
31: learn: 3430.1106575 test: 3449.0855181 best: 3449.0855181 (31) total: 871ms remaining: 1.85s
32: learn: 3370.4838588 test: 3389.0073567 best: 3389.0073567 (32) total: 901ms remaining: 1.83s
33: learn: 3313.5344688 test: 3331.8122047 best: 3331.8122047 (33) total: 927ms remaining: 1.8s
34: learn: 3257.8244236 test: 3275.6019467 best: 3275.6019467 (34) total: 950ms remaining: 1.76s
35: learn: 3204.5413232 test: 3221.9883839 best: 3221.9883839 (35) total: 977ms remaining: 1.74s
36: learn: 3153.1793649 test: 3170.2216561 best: 3170.2216561 (36) total: 1s remaining: 1.7s
37: learn: 3103.7655057 test: 3120.6180961 best: 3120.6180961 (37) total: 1.03s remaining: 1.68s
38: learn: 3057.2418999 test: 3073.6743387 best: 3073.6743387 (38) total: 1.05s remaining: 1.65s
39: learn: 3012.9026286 test: 3028.8591843 best: 3028.8591843 (39) total: 1.08s remaining: 1.62s
40: learn: 2970.5039435 test: 2986.0804785 best: 2986.0804785 (40) total: 1.1s remaining: 1.59s
41: learn: 2929.5343827 test: 2944.4208955 best: 2944.4208955 (41) total: 1.13s remaining: 1.56s
42: learn: 2890.4491205 test: 2905.1001098 best: 2905.1001098 (42) total: 1.15s remaining: 1.53s
43: learn: 2851.7133896 test: 2865.7954706 best: 2865.7954706 (43) total: 1.19s remaining: 1.51s
44: learn: 2847.1274582 test: 2868.8222722 best: 2868.8222722 (44) total: 1.22s remaining: 1.48s

44: learn: 2815.4251563 test: 2829.0800728 best: 2829.0800728 (44) total: 1.22s remaining: 1.49s
45: learn: 2780.1070637 test: 2793.2766900 best: 2793.2766900 (45) total: 1.24s remaining: 1.46s
46: learn: 2746.4935662 test: 2759.2880824 best: 2759.2880824 (46) total: 1.27s remaining: 1.43s
47: learn: 2713.4298949 test: 2725.8764157 best: 2725.8764157 (47) total: 1.3s remaining: 1.4s
48: learn: 2682.8802393 test: 2694.9480855 best: 2694.9480855 (48) total: 1.32s remaining: 1.37s
49: learn: 2652.9209043 test: 2664.8429635 best: 2664.8429635 (49) total: 1.34s remaining: 1.34s
50: learn: 2624.0712260 test: 2635.5494526 best: 2635.5494526 (50) total: 1.37s remaining: 1.31s
51: learn: 2597.2043138 test: 2608.5530367 best: 2608.5530367 (51) total: 1.4s remaining: 1.29s
52: learn: 2571.8364589 test: 2582.7242024 best: 2582.7242024 (52) total: 1.42s remaining: 1.26s
53: learn: 2545.8739191 test: 2556.3888182 best: 2556.3888182 (53) total: 1.45s remaining: 1.23s
54: learn: 2521.6785233 test: 2531.8262507 best: 2531.8262507 (54) total: 1.47s remaining: 1.21s
55: learn: 2498.8226089 test: 2508.6510865 best: 2508.6510865 (55) total: 1.5s remaining: 1.18s
56: learn: 2476.5458037 test: 2485.9340481 best: 2485.9340481 (56) total: 1.52s remaining: 1.15s
57: learn: 2454.2480447 test: 2463.3365753 best: 2463.3365753 (57) total: 1.55s remaining: 1.12s
58: learn: 2432.9855428 test: 2441.5554230 best: 2441.5554230 (58) total: 1.58s remaining: 1.09s
59: learn: 2413.4188743 test: 2421.4930491 best: 2421.4930491 (59) total: 1.6s remaining: 1.07s
60: learn: 2394.4898324 test: 2402.1995405 best: 2402.1995405 (60) total: 1.62s remaining: 1.04s
61: learn: 2375.2290836 test: 2382.5492615 best: 2382.5492615 (61) total: 1.65s remaining: 1.01s
62: learn: 2357.8675889 test: 2364.9731434 best: 2364.9731434 (62) total: 1.68s remaining: 986ms
63: learn: 2337.9656102 test: 2344.8089020 best: 2344.8089020 (63) total: 1.7s remaining: 958ms
64: learn: 2319.8821030 test: 2326.4718965 best: 2326.4718965 (64) total: 1.73s remaining: 931ms
65: learn: 2304.6688336 test: 2311.0730243 best: 2311.0730243 (65) total: 1.75s remaining: 903ms
66: learn: 2289.6279604 test: 2295.6662972 best: 2295.6662972 (66) total: 1.78s remaining: 879ms
67: learn: 2274.3174869 test: 2280.0701789 best: 2280.0701789 (67) total: 1.81s remaining: 851ms
68: learn: 2258.7613104 test: 2264.3003682 best: 2264.3003682 (68) total: 1.83s remaining: 823ms
69: learn: 2245.2811749 test: 2250.5371950 best: 2250.5371950 (69) total: 1.86s remaining: 796ms
70: learn: 2233.1741066 test: 2238.2112675 best: 2238.2112675 (70) total: 1.88s remaining: 769ms
71: learn: 2219.7584236 test: 2224.2725887 best: 2224.2725887 (71) total: 1.91s remaining: 742ms
72: learn: 2208.1160820 test: 2212.2826234 best: 2212.2826234 (72) total: 1.93s remaining: 714ms
73: learn: 2197.1915028 test: 2201.1777905 best: 2201.1777905 (73) total: 1.96s remaining: 687ms
74: learn: 2185.5784468 test: 2189.2739926 best: 2189.2739926 (74) total: 1.98s remaining: 661ms
75: learn: 2173.7838847 test: 2177.2556261 best: 2177.2556261 (75) total: 2s remaining: 633ms
76: learn: 2163.2976249 test: 2166.5221547 best: 2166.5221547 (76) total: 2.03s remaining: 606ms
77: learn: 2153.7210082 test: 2156.7752985 best: 2156.7752985 (77) total: 2.05s remaining: 579ms
78: learn: 2144.0614781 test: 2146.7823339 best: 2146.7823339 (78) total: 2.08s remaining: 552ms
79: learn: 2133.0678056 test: 2135.6045016 best: 2135.6045016 (79) total: 2.1s remaining: 525ms
80: learn: 2124.3788012 test: 2126.7369499 best: 2126.7369499 (80) total: 2.12s remaining: 498ms
81: learn: 2115.7895303 test: 2118.0569084 best: 2118.0569084 (81) total: 2.15s remaining: 472ms
82: learn: 2106.2436713 test: 2108.4069307 best: 2108.4069307 (82) total: 2.17s remaining: 446ms
83: learn: 2098.3425413 test: 2100.3789717 best: 2100.3789717 (83) total: 2.2s remaining: 419ms
84: learn: 2090.8699842 test: 2092.7217217 best: 2092.7217217 (84) total: 2.22s remaining: 392ms
85: learn: 2083.3756566 test: 2085.0639161 best: 2085.0639161 (85) total: 2.25s remaining: 366ms

86: learn: 2074.4530802 test: 2075.8802419 best: 2075.8802419 (86) total: 2.27s remaining: 339ms
87: learn: 2067.5986740 test: 2068.7829797 best: 2068.7829797 (87) total: 2.29s remaining: 313ms
88: learn: 2059.6044522 test: 2060.7875778 best: 2060.7875778 (88) total: 2.32s remaining: 286ms
89: learn: 2052.3493585 test: 2053.3535859 best: 2053.3535859 (89) total: 2.34s remaining: 260ms
90: learn: 2046.3488635 test: 2047.2038982 best: 2047.2038982 (90) total: 2.37s remaining: 234ms
91: learn: 2040.3513359 test: 2041.0951814 best: 2041.0951814 (91) total: 2.39s remaining: 208ms
92: learn: 2034.9041755 test: 2035.6087834 best: 2035.6087834 (92) total: 2.42s remaining: 182ms
93: learn: 2028.2450947 test: 2028.8310497 best: 2028.8310497 (93) total: 2.44s remaining: 156ms
94: learn: 2023.1050182 test: 2023.4531959 best: 2023.4531959 (94) total: 2.46s remaining: 130ms
95: learn: 2016.7110722 test: 2016.8754524 best: 2016.8754524 (95) total: 2.49s remaining: 104ms
96: learn: 2011.6634107 test: 2011.5284292 best: 2011.5284292 (96) total: 2.51s remaining: 77.6ms
97: learn: 2006.3775515 test: 2006.4331085 best: 2006.4331085 (97) total: 2.53s remaining: 51.7ms
98: learn: 2001.3037075 test: 2001.2900135 best: 2001.2900135 (98) total: 2.56s remaining: 25.8ms
99: learn: 1996.6450421 test: 1996.4879632 best: 1996.4879632 (99) total: 2.58s remaining: 0us

bestTest = 1996.487963

bestIteration = 99

74: loss: 1996.4879632 best: 1709.4122952 (65) total: 3m 10s remaining: 53.4s
0: learn: 6386.6495154 test: 6412.1554999 best: 6412.1554999 (0) total: 25.9ms remaining: 2.56s
1: learn: 5855.4837816 test: 5880.8076659 best: 5880.8076659 (1) total: 51.1ms remaining: 2.5s
2: learn: 5382.7115081 test: 5407.6829749 best: 5407.6829749 (2) total: 79.4ms remaining: 2.57s
3: learn: 4962.9454821 test: 4987.4914970 best: 4987.4914970 (3) total: 110ms remaining: 2.64s
4: learn: 4598.5509574 test: 4621.8497555 best: 4621.8497555 (4) total: 134ms remaining: 2.54s
5: learn: 4270.5720637 test: 4292.1863251 best: 4292.1863251 (5) total: 160ms remaining: 2.5s
6: learn: 3978.1572467 test: 3998.3301795 best: 3998.3301795 (6) total: 189ms remaining: 2.51s
7: learn: 3715.6893109 test: 3734.5731301 best: 3734.5731301 (7) total: 214ms remaining: 2.46s
8: learn: 3490.2399990 test: 3507.0648423 best: 3507.0648423 (8) total: 239ms remaining: 2.42s
9: learn: 3293.2543851 test: 3309.3256555 best: 3309.3256555 (9) total: 263ms remaining: 2.37s
10: learn: 3117.4686159 test: 3132.8939683 best: 3132.8939683 (10) total: 288ms remaining: 2.33s
11: learn: 2961.5537400 test: 2975.7564172 best: 2975.7564172 (11) total: 311ms remaining: 2.28s
12: learn: 2829.3929255 test: 2841.7574486 best: 2841.7574486 (12) total: 335ms remaining: 2.24s
13: learn: 2714.6004025 test: 2725.0684793 best: 2725.0684793 (13) total: 359ms remaining: 2.21s
14: learn: 2613.6815545 test: 2622.7685989 best: 2622.7685989 (14) total: 385ms remaining: 2.18s
15: learn: 2525.9500103 test: 2534.7813837 best: 2534.7813837 (15) total: 412ms remaining: 2.16s
16: learn: 2451.3248172 test: 2459.2407700 best: 2459.2407700 (16) total: 437ms remaining: 2.13s
17: learn: 2384.8273045 test: 2391.1395344 best: 2391.1395344 (17) total: 462ms remaining: 2.1s
18: learn: 2326.2856440 test: 2331.7888203 best: 2331.7888203 (18) total: 489ms remaining: 2.08s
19: learn: 2273.3423767 test: 2278.2197821 best: 2278.2197821 (19) total: 513ms remaining: 2.05s
20: learn: 2223.0355720 test: 2227.1236726 best: 2227.1236726 (20) total: 540ms remaining: 2.03s
21: learn: 2184.0722833 test: 2187.4378730 best: 2187.4378730 (21) total: 569ms remaining: 2.02s

22: learn: 2149.4944784 test: 2152.0620947 best: 2152.0620947 (22) total: 598ms remaining: 2s
23: learn: 2119.3998160 test: 2121.5717732 best: 2121.5717732 (23) total: 627ms remaining: 1.98s
24: learn: 2093.1687967 test: 2094.3983163 best: 2094.3983163 (24) total: 655ms remaining: 1.97s
25: learn: 2063.1916664 test: 2063.6864348 best: 2063.6864348 (25) total: 689ms remaining: 1.96s
26: learn: 2039.4709626 test: 2040.0124519 best: 2040.0124519 (26) total: 716ms remaining: 1.94s
27: learn: 2020.7868224 test: 2021.6384334 best: 2021.6384334 (27) total: 747ms remaining: 1.92s
28: learn: 2003.2387191 test: 2003.5660683 best: 2003.5660683 (28) total: 783ms remaining: 1.92s
29: learn: 1987.3663984 test: 1987.0985391 best: 1987.0985391 (29) total: 809ms remaining: 1.89s
30: learn: 1970.3711013 test: 1969.8635170 best: 1969.8635170 (30) total: 834ms remaining: 1.86s
31: learn: 1958.3210469 test: 1957.4308378 best: 1957.4308378 (31) total: 859ms remaining: 1.83s
32: learn: 1945.3361900 test: 1944.4093531 best: 1944.4093531 (32) total: 889ms remaining: 1.8s
33: learn: 1935.8701145 test: 1935.0912876 best: 1935.0912876 (33) total: 912ms remaining: 1.77s
34: learn: 1926.0877612 test: 1924.8255502 best: 1924.8255502 (34) total: 934ms remaining: 1.73s
35: learn: 1917.7635789 test: 1916.6066459 best: 1916.6066459 (35) total: 957ms remaining: 1.7s
36: learn: 1907.1628785 test: 1907.1498902 best: 1907.1498902 (36) total: 986ms remaining: 1.68s
37: learn: 1899.5083167 test: 1899.9413224 best: 1899.9413224 (37) total: 1.01s remaining: 1.65s
38: learn: 1892.1627113 test: 1892.7038378 best: 1892.7038378 (38) total: 1.04s remaining: 1.62s
39: learn: 1886.2183948 test: 1887.4853289 best: 1887.4853289 (39) total: 1.06s remaining: 1.6s
40: learn: 1880.5736661 test: 1882.0395766 best: 1882.0395766 (40) total: 1.09s remaining: 1.57s
41: learn: 1873.0133305 test: 1875.1367000 best: 1875.1367000 (41) total: 1.12s remaining: 1.55s
42: learn: 1866.9055323 test: 1869.0018957 best: 1869.0018957 (42) total: 1.15s remaining: 1.52s
43: learn: 1861.7180286 test: 1863.4197105 best: 1863.4197105 (43) total: 1.17s remaining: 1.49s
44: learn: 1856.9901139 test: 1858.6458746 best: 1858.6458746 (44) total: 1.2s remaining: 1.46s
45: learn: 1851.5232960 test: 1853.3507260 best: 1853.3507260 (45) total: 1.22s remaining: 1.43s
46: learn: 1846.7337739 test: 1849.1222623 best: 1849.1222623 (46) total: 1.24s remaining: 1.4s
47: learn: 1843.0756055 test: 1846.0741619 best: 1846.0741619 (47) total: 1.27s remaining: 1.37s
48: learn: 1838.8796680 test: 1842.0200938 best: 1842.0200938 (48) total: 1.29s remaining: 1.34s
49: learn: 1834.6005464 test: 1838.1314781 best: 1838.1314781 (49) total: 1.32s remaining: 1.32s
50: learn: 1831.3568826 test: 1834.7754366 best: 1834.7754366 (50) total: 1.34s remaining: 1.29s
51: learn: 1827.6510046 test: 1830.9151790 best: 1830.9151790 (51) total: 1.36s remaining: 1.26s
52: learn: 1823.7946940 test: 1827.2516007 best: 1827.2516007 (52) total: 1.39s remaining: 1.23s
53: learn: 1819.9201654 test: 1823.4956865 best: 1823.4956865 (53) total: 1.41s remaining: 1.2s
54: learn: 1814.9885694 test: 1818.7769773 best: 1818.7769773 (54) total: 1.44s remaining: 1.18s
55: learn: 1811.5132353 test: 1816.2776573 best: 1816.2776573 (55) total: 1.47s remaining: 1.15s
56: learn: 1809.1238142 test: 1813.7551145 best: 1813.7551145 (56) total: 1.49s remaining: 1.12s
57: learn: 1804.8648452 test: 1809.6443087 best: 1809.6443087 (57) total: 1.52s remaining: 1.1s
58: learn: 1802.3354034 test: 1807.2035621 best: 1807.2035621 (58) total: 1.54s remaining: 1.07s
59: learn: 1799.9054144 test: 1804.9516190 best: 1804.9516190 (59) total: 1.56s remaining: 1.04s
60: learn: 1796.9209790 test: 1802.0922535 best: 1802.0922535 (60) total: 1.59s remaining: 1.01s
61: learn: 1793.7308679 test: 1798.9372122 best: 1798.9372122 (61) total: 1.61s remaining: 989ms
62: learn: 1791.1598672 test: 1796.5057108 best: 1796.5057108 (62) total: 1.64s remaining: 963ms

63: learn: 1786.9236068 test: 1792.7356909 best: 1792.7356909 (63) total: 1.67s remaining: 941ms
64: learn: 1784.3150327 test: 1790.4305729 best: 1790.4305729 (64) total: 1.7s remaining: 914ms
65: learn: 1781.8041771 test: 1788.0814998 best: 1788.0814998 (65) total: 1.72s remaining: 886ms
66: learn: 1779.6877910 test: 1786.4492795 best: 1786.4492795 (66) total: 1.74s remaining: 859ms
67: learn: 1777.6592534 test: 1784.6036538 best: 1784.6036538 (67) total: 1.77s remaining: 835ms
68: learn: 1775.8739395 test: 1783.2620276 best: 1783.2620276 (68) total: 1.8s remaining: 808ms
69: learn: 1773.1629278 test: 1780.7036669 best: 1780.7036669 (69) total: 1.82s remaining: 782ms
70: learn: 1771.2290272 test: 1779.2562945 best: 1779.2562945 (70) total: 1.85s remaining: 755ms
71: learn: 1767.8453583 test: 1776.3369212 best: 1776.3369212 (71) total: 1.87s remaining: 729ms
72: learn: 1766.2621379 test: 1775.1204223 best: 1775.1204223 (72) total: 1.9s remaining: 701ms
73: learn: 1764.4631076 test: 1773.6079538 best: 1773.6079538 (73) total: 1.92s remaining: 674ms
74: learn: 1762.7792194 test: 1772.0481928 best: 1772.0481928 (74) total: 1.94s remaining: 647ms
75: learn: 1761.3949196 test: 1770.8980533 best: 1770.8980533 (75) total: 1.97s remaining: 622ms
76: learn: 1759.5927776 test: 1769.4512899 best: 1769.4512899 (76) total: 1.99s remaining: 596ms
77: learn: 1756.7994100 test: 1766.6886504 best: 1766.6886504 (77) total: 2.02s remaining: 569ms
78: learn: 1754.5045641 test: 1764.3925775 best: 1764.3925775 (78) total: 2.04s remaining: 543ms
79: learn: 1753.0895384 test: 1763.4297581 best: 1763.4297581 (79) total: 2.07s remaining: 517ms
80: learn: 1751.4122342 test: 1762.0949757 best: 1762.0949757 (80) total: 2.09s remaining: 490ms
81: learn: 1749.6396683 test: 1760.5924755 best: 1760.5924755 (81) total: 2.11s remaining: 463ms
82: learn: 1747.8251775 test: 1758.9083790 best: 1758.9083790 (82) total: 2.14s remaining: 438ms
83: learn: 1746.6164523 test: 1757.9298859 best: 1757.9298859 (83) total: 2.17s remaining: 412ms
84: learn: 1744.9216749 test: 1756.4943492 best: 1756.4943492 (84) total: 2.19s remaining: 386ms
85: learn: 1741.7758671 test: 1754.0586201 best: 1754.0586201 (85) total: 2.21s remaining: 360ms
86: learn: 1740.2164225 test: 1752.7819603 best: 1752.7819603 (86) total: 2.24s remaining: 334ms
87: learn: 1738.9741325 test: 1751.5595159 best: 1751.5595159 (87) total: 2.26s remaining: 308ms
88: learn: 1737.5250044 test: 1750.2789519 best: 1750.2789519 (88) total: 2.28s remaining: 282ms
89: learn: 1735.9964819 test: 1749.4771409 best: 1749.4771409 (89) total: 2.31s remaining: 256ms
90: learn: 1733.7928531 test: 1747.5185331 best: 1747.5185331 (90) total: 2.33s remaining: 231ms
91: learn: 1732.2592254 test: 1746.2650928 best: 1746.2650928 (91) total: 2.36s remaining: 205ms
92: learn: 1731.3647595 test: 1745.6020370 best: 1745.6020370 (92) total: 2.38s remaining: 179ms
93: learn: 1728.6717044 test: 1743.5515152 best: 1743.5515152 (93) total: 2.41s remaining: 154ms
94: learn: 1727.1921697 test: 1742.0680197 best: 1742.0680197 (94) total: 2.43s remaining: 128ms
95: learn: 1725.3585171 test: 1740.8376684 best: 1740.8376684 (95) total: 2.46s remaining: 103ms
96: learn: 1723.8195705 test: 1740.0946318 best: 1740.0946318 (96) total: 2.48s remaining: 76.9ms
97: learn: 1722.1465166 test: 1738.7795928 best: 1738.7795928 (97) total: 2.51s remaining: 51.2ms
98: learn: 1721.0258280 test: 1737.8403362 best: 1737.8403362 (98) total: 2.53s remaining: 25.6ms
99: learn: 1719.2206026 test: 1736.3758050 best: 1736.3758050 (99) total: 2.56s remaining: 0us

bestTest = 1736.375805

bestIteration = 99

75: loss: 1736.3758050 best: 1709.4122952 (65) total: 3m 1s remaining: 50.8s

0: learn: 6802.5918811 test: 6829.9108526 best: 6829.9108526 (0) total: 26.3ms remaining: 2.6s

1: learn: 6628.7468639 test: 6655.8166309 best: 6655.8166309 (1) total: 51.4ms remaining: 2.52s

2: learn: 6460.2582612 test: 6487.2169906 best: 6487.2169906 (2) total: 77.3ms remaining: 2.5s

3: learn: 6298.9243131 test: 6326.1487171 best: 6326.1487171 (3) total: 102ms remaining: 2.46s

4: learn: 6142.8888466 test: 6169.7690372 best: 6169.7690372 (4) total: 127ms remaining: 2.42s

5: learn: 5991.0731020 test: 6017.8023736 best: 6017.8023736 (5) total: 153ms remaining: 2.4s

6: learn: 5844.1359247 test: 5870.8909394 best: 5870.8909394 (6) total: 185ms remaining: 2.46s

7: learn: 5703.1399553 test: 5729.5733989 best: 5729.5733989 (7) total: 211ms remaining: 2.43s

8: learn: 5566.2552258 test: 5592.3375006 best: 5592.3375006 (8) total: 237ms remaining: 2.39s

9: learn: 5433.2307515 test: 5459.0455567 best: 5459.0455567 (9) total: 262ms remaining: 2.35s

10: learn: 5304.4098089 test: 5330.6293590 best: 5330.6293590 (10) total: 286ms remaining: 2.32s

11: learn: 5180.4373925 test: 5206.4906440 best: 5206.4906440 (11) total: 312ms remaining: 2.29s

12: learn: 5061.8239550 test: 5087.6061765 best: 5087.6061765 (12) total: 338ms remaining: 2.26s

13: learn: 4945.0660134 test: 4970.6145555 best: 4970.6145555 (13) total: 364ms remaining: 2.24s

14: learn: 4832.7593653 test: 4857.8754156 best: 4857.8754156 (14) total: 396ms remaining: 2.24s

15: learn: 4725.3057846 test: 4750.2579761 best: 4750.2579761 (15) total: 421ms remaining: 2.21s

16: learn: 4620.5351246 test: 4644.8371360 best: 4644.8371360 (16) total: 448ms remaining: 2.19s

17: learn: 4519.8615579 test: 4543.9142849 best: 4543.9142849 (17) total: 480ms remaining: 2.19s

18: learn: 4422.3137934 test: 4445.9530433 best: 4445.9530433 (18) total: 505ms remaining: 2.15s

19: learn: 4326.6676510 test: 4350.1444828 best: 4350.1444828 (19) total: 531ms remaining: 2.12s

20: learn: 4234.8264350 test: 4257.8334638 best: 4257.8334638 (20) total: 557ms remaining: 2.1s

21: learn: 4146.9452665 test: 4169.5846288 best: 4169.5846288 (21) total: 590ms remaining: 2.09s

22: learn: 4063.3812524 test: 4085.7648963 best: 4085.7648963 (22) total: 619ms remaining: 2.07s

23: learn: 3981.8428593 test: 4003.5638575 best: 4003.5638575 (23) total: 644ms remaining: 2.04s

24: learn: 3904.0238347 test: 3925.1113817 best: 3925.1113817 (24) total: 669ms remaining: 2.01s

25: learn: 3828.5998418 test: 3849.2434118 best: 3849.2434118 (25) total: 693ms remaining: 1.97s

26: learn: 3756.7364643 test: 3777.1457933 best: 3777.1457933 (26) total: 722ms remaining: 1.95s

27: learn: 3686.2348743 test: 3706.2576015 best: 3706.2576015 (27) total: 749ms remaining: 1.93s

28: learn: 3617.7568045 test: 3637.2888107 best: 3637.2888107 (28) total: 776ms remaining: 1.9s

29: learn: 3552.6488831 test: 3571.8671234 best: 3571.8671234 (29) total: 803ms remaining: 1.87s

30: learn: 3490.7651364 test: 3509.6984351 best: 3509.6984351 (30) total: 834ms remaining: 1.86s

31: learn: 3430.4174360 test: 3448.8872777 best: 3448.8872777 (31) total: 860ms remaining: 1.83s

32: learn: 3371.1026982 test: 3389.1200301 best: 3389.1200301 (32) total: 892ms remaining: 1.81s

33: learn: 3314.2348965 test: 3332.0114240 best: 3332.0114240 (33) total: 920ms remaining: 1.79s

34: learn: 3258.9752936 test: 3276.5777176 best: 3276.5777176 (34) total: 945ms remaining: 1.75s

35: learn: 3206.2464247 test: 3223.4979570 best: 3223.4979570 (35) total: 969ms remaining: 1.72s

36: learn: 3155.1407002 test: 3171.8545646 best: 3171.8545646 (36) total: 996ms remaining: 1.7s

37: learn: 3105.8546295 test: 3122.3793878 best: 3122.3793878 (37) total: 1.02s remaining: 1.67s

38: learn: 3059.4311448 test: 3075.6236138 best: 3075.6236138 (38) total: 1.05s remaining: 1.64s

39: learn: 3015.2351931 test: 3030.9362595 best: 3030.9362595 (39) total: 1.07s remaining: 1.61s

40: learn: 2973.0616413 test: 2988.2880242 best: 2988.2880242 (40) total: 1.1s remaining: 1.59s

41: learn: 2931.8258526 test: 2946.4567250 best: 2946.4567250 (41) total: 1.13s remaining: 1.56s
42: learn: 2892.4666172 test: 2906.8720812 best: 2906.8720812 (42) total: 1.15s remaining: 1.53s
43: learn: 2854.0911058 test: 2868.0552772 best: 2868.0552772 (43) total: 1.18s remaining: 1.5s
44: learn: 2817.8226585 test: 2831.2362828 best: 2831.2362828 (44) total: 1.21s remaining: 1.48s
45: learn: 2782.8501062 test: 2795.7306661 best: 2795.7306661 (45) total: 1.23s remaining: 1.45s
46: learn: 2748.2555339 test: 2760.9277817 best: 2760.9277817 (46) total: 1.26s remaining: 1.42s
47: learn: 2715.3560172 test: 2727.6845292 best: 2727.6845292 (47) total: 1.28s remaining: 1.39s
48: learn: 2683.6757592 test: 2695.6492173 best: 2695.6492173 (48) total: 1.31s remaining: 1.36s
49: learn: 2654.4686117 test: 2666.2842789 best: 2666.2842789 (49) total: 1.33s remaining: 1.33s
50: learn: 2625.6750178 test: 2636.8653488 best: 2636.8653488 (50) total: 1.36s remaining: 1.3s
51: learn: 2598.7775931 test: 2609.9867157 best: 2609.9867157 (51) total: 1.38s remaining: 1.27s
52: learn: 2573.2763485 test: 2583.9737555 best: 2583.9737555 (52) total: 1.41s remaining: 1.25s
53: learn: 2547.7970983 test: 2557.9225548 best: 2557.9225548 (53) total: 1.43s remaining: 1.22s
54: learn: 2523.7525182 test: 2533.4156552 best: 2533.4156552 (54) total: 1.45s remaining: 1.19s
55: learn: 2500.9065081 test: 2510.4140528 best: 2510.4140528 (55) total: 1.48s remaining: 1.17s
56: learn: 2478.6578707 test: 2487.7052320 best: 2487.7052320 (56) total: 1.51s remaining: 1.14s
57: learn: 2456.5622886 test: 2465.3064941 best: 2465.3064941 (57) total: 1.53s remaining: 1.11s
58: learn: 2436.2852373 test: 2445.0614980 best: 2445.0614980 (58) total: 1.56s remaining: 1.08s
59: learn: 2416.5319886 test: 2424.7975573 best: 2424.7975573 (59) total: 1.58s remaining: 1.05s
60: learn: 2397.3452525 test: 2405.2131311 best: 2405.2131311 (60) total: 1.61s remaining: 1.03s
61: learn: 2378.6725524 test: 2386.1606720 best: 2386.1606720 (61) total: 1.64s remaining: 1s
62: learn: 2358.9580879 test: 2366.3047389 best: 2366.3047389 (62) total: 1.66s remaining: 975ms
63: learn: 2339.3131615 test: 2346.3878484 best: 2346.3878484 (63) total: 1.69s remaining: 950ms
64: learn: 2321.4742979 test: 2328.2824406 best: 2328.2824406 (64) total: 1.71s remaining: 923ms
65: learn: 2305.9965651 test: 2312.5125232 best: 2312.5125232 (65) total: 1.74s remaining: 895ms
66: learn: 2290.7163044 test: 2296.8903459 best: 2296.8903459 (66) total: 1.76s remaining: 867ms
67: learn: 2276.4458595 test: 2282.3774860 best: 2282.3774860 (67) total: 1.78s remaining: 840ms
68: learn: 2263.0322648 test: 2268.7377394 best: 2268.7377394 (68) total: 1.81s remaining: 815ms
69: learn: 2249.7672117 test: 2255.1871704 best: 2255.1871704 (69) total: 1.84s remaining: 789ms
70: learn: 2235.2114576 test: 2240.3506374 best: 2240.3506374 (70) total: 1.87s remaining: 765ms
71: learn: 2222.7299048 test: 2227.5609437 best: 2227.5609437 (71) total: 1.9s remaining: 739ms
72: learn: 2211.0542255 test: 2215.4710311 best: 2215.4710311 (72) total: 1.92s remaining: 712ms
73: learn: 2197.7066404 test: 2201.8764347 best: 2201.8764347 (73) total: 1.95s remaining: 686ms
74: learn: 2185.9824629 test: 2189.8599386 best: 2189.8599386 (74) total: 1.98s remaining: 660ms
75: learn: 2175.2508297 test: 2178.8293981 best: 2178.8293981 (75) total: 2s remaining: 633ms
76: learn: 2164.4695361 test: 2167.7637119 best: 2167.7637119 (76) total: 2.03s remaining: 606ms
77: learn: 2155.0147539 test: 2157.9482759 best: 2157.9482759 (77) total: 2.05s remaining: 579ms
78: learn: 2144.8666580 test: 2147.4590999 best: 2147.4590999 (78) total: 2.08s remaining: 552ms
79: learn: 2134.3004876 test: 2136.8335627 best: 2136.8335627 (79) total: 2.1s remaining: 525ms
80: learn: 2125.5078831 test: 2127.9579329 best: 2127.9579329 (80) total: 2.13s remaining: 499ms
81: learn: 2116.4206886 test: 2118.7833950 best: 2118.7833950 (81) total: 2.15s remaining: 472ms

82: learn: 2108.3517251 test: 2110.5844083 best: 2110.5844083 (82) total: 2.18s remaining: 447ms
83: learn: 2100.4855265 test: 2102.4915191 best: 2102.4915191 (83) total: 2.21s remaining: 420ms
84: learn: 2093.0120308 test: 2094.8892457 best: 2094.8892457 (84) total: 2.23s remaining: 393ms
85: learn: 2085.2739088 test: 2086.8862980 best: 2086.8862980 (85) total: 2.25s remaining: 367ms
86: learn: 2076.3574898 test: 2077.7552885 best: 2077.7552885 (86) total: 2.28s remaining: 341ms
87: learn: 2069.6200383 test: 2070.9737254 best: 2070.9737254 (87) total: 2.3s remaining: 314ms
88: learn: 2061.6819833 test: 2063.0193677 best: 2063.0193677 (88) total: 2.33s remaining: 288ms
89: learn: 2054.4478760 test: 2055.5098058 best: 2055.5098058 (89) total: 2.35s remaining: 261ms
90: learn: 2047.8926818 test: 2048.7527985 best: 2048.7527985 (90) total: 2.38s remaining: 235ms
91: learn: 2041.7732598 test: 2042.5922935 best: 2042.5922935 (91) total: 2.4s remaining: 209ms
92: learn: 2036.1474943 test: 2036.9063661 best: 2036.9063661 (92) total: 2.43s remaining: 183ms
93: learn: 2029.4215707 test: 2030.0395571 best: 2030.0395571 (93) total: 2.45s remaining: 157ms
94: learn: 2024.3956550 test: 2024.7963404 best: 2024.7963404 (94) total: 2.48s remaining: 130ms
95: learn: 2017.9421419 test: 2018.1916558 best: 2018.1916558 (95) total: 2.5s remaining: 104ms
96: learn: 2012.8269453 test: 2012.6894154 best: 2012.6894154 (96) total: 2.53s remaining: 78.2ms
97: learn: 2007.2813278 test: 2007.1118230 best: 2007.1118230 (97) total: 2.55s remaining: 52.1ms
98: learn: 2002.6315536 test: 2002.1790922 best: 2002.1790922 (98) total: 2.58s remaining: 26.1ms
99: learn: 1997.7126355 test: 1997.0783682 best: 1997.0783682 (99) total: 2.61s remaining: 0us

bestTest = 1997.078368

bestIteration = 99

76: loss: 1997.0783682 best: 1709.4122952 (65) total: 3m 15s remaining: 48.3s
0: learn: 6386.9090228 test: 6412.4120624 best: 6412.4120624 (0) total: 25.4ms remaining: 2.51s
1: learn: 5855.9433588 test: 5881.2606591 best: 5881.2606591 (1) total: 52.3ms remaining: 2.56s
2: learn: 5383.2691000 test: 5408.2374155 best: 5408.2374155 (2) total: 77.6ms remaining: 2.51s
3: learn: 4963.5525879 test: 4988.0977310 best: 4988.0977310 (3) total: 104ms remaining: 2.49s
4: learn: 4599.3066538 test: 4622.6051126 best: 4622.6051126 (4) total: 129ms remaining: 2.46s
5: learn: 4271.4456627 test: 4293.0535190 best: 4293.0535190 (5) total: 159ms remaining: 2.49s
6: learn: 3979.0802968 test: 3999.2342416 best: 3999.2342416 (6) total: 184ms remaining: 2.44s
7: learn: 3716.6355816 test: 3735.4902411 best: 3735.4902411 (7) total: 211ms remaining: 2.43s
8: learn: 3491.3127883 test: 3508.0893179 best: 3508.0893179 (8) total: 244ms remaining: 2.46s
9: learn: 3294.2915596 test: 3310.3125656 best: 3310.3125656 (9) total: 274ms remaining: 2.46s
10: learn: 3118.5092900 test: 3133.8695082 best: 3133.8695082 (10) total: 301ms remaining: 2.44s
11: learn: 2962.5356230 test: 2976.6732100 best: 2976.6732100 (11) total: 326ms remaining: 2.39s
12: learn: 2830.4589872 test: 2842.7364600 best: 2842.7364600 (12) total: 356ms remaining: 2.38s
13: learn: 2715.6651954 test: 2726.0269626 best: 2726.0269626 (13) total: 380ms remaining: 2.34s
14: learn: 2614.6973353 test: 2623.6735836 best: 2623.6735836 (14) total: 405ms remaining: 2.3s
15: learn: 2526.9134533 test: 2535.6301382 best: 2535.6301382 (15) total: 430ms remaining: 2.25s
16: learn: 2452.3674213 test: 2460.1058163 best: 2460.1058163 (16) total: 456ms remaining: 2.23s
17: learn: 2385.8110326 test: 2391.9427251 best: 2391.9427251 (17) total: 480ms remaining: 2.19s

18: learn: 2327.4500217 test: 2332.8351979 best: 2332.8351979 (18) total: 508ms remaining: 2.17s
19: learn: 2276.3457446 test: 2281.2404668 best: 2281.2404668 (19) total: 534ms remaining: 2.13s
20: learn: 2223.6695331 test: 2227.1967205 best: 2227.1967205 (20) total: 562ms remaining: 2.12s
21: learn: 2183.8785106 test: 2186.2863408 best: 2186.2863408 (21) total: 586ms remaining: 2.08s
22: learn: 2143.0096266 test: 2144.6255627 best: 2144.6255627 (22) total: 610ms remaining: 2.04s
23: learn: 2112.7918423 test: 2114.0421107 best: 2114.0421107 (23) total: 636ms remaining: 2.01s
24: learn: 2088.4368364 test: 2088.6980540 best: 2088.6980540 (24) total: 662ms remaining: 1.99s
25: learn: 2067.4856452 test: 2067.1992692 best: 2067.1992692 (25) total: 686ms remaining: 1.95s
26: learn: 2042.7979500 test: 2041.8245827 best: 2041.8245827 (26) total: 710ms remaining: 1.92s
27: learn: 2019.6650524 test: 2018.7673412 best: 2018.7673412 (27) total: 735ms remaining: 1.89s
28: learn: 2001.3973529 test: 2000.4760205 best: 2000.4760205 (28) total: 767ms remaining: 1.88s
29: learn: 1985.0447863 test: 1983.5773202 best: 1983.5773202 (29) total: 792ms remaining: 1.85s
30: learn: 1971.9256695 test: 1969.4726748 best: 1969.4726748 (30) total: 815ms remaining: 1.81s
31: learn: 1957.7006176 test: 1954.8692121 best: 1954.8692121 (31) total: 843ms remaining: 1.79s
32: learn: 1947.0389020 test: 1943.7141962 best: 1943.7141962 (32) total: 866ms remaining: 1.76s
33: learn: 1936.5569235 test: 1933.3941094 best: 1933.3941094 (33) total: 891ms remaining: 1.73s
34: learn: 1927.0591923 test: 1923.8135809 best: 1923.8135809 (34) total: 913ms remaining: 1.7s
35: learn: 1918.5497535 test: 1915.6034313 best: 1915.6034313 (35) total: 938ms remaining: 1.67s
36: learn: 1908.6669100 test: 1905.5085922 best: 1905.5085922 (36) total: 964ms remaining: 1.64s
37: learn: 1901.5140948 test: 1898.6525517 best: 1898.6525517 (37) total: 986ms remaining: 1.61s
38: learn: 1895.0484581 test: 1892.1156457 best: 1892.1156457 (38) total: 1.01s remaining: 1.58s
39: learn: 1887.9846555 test: 1885.3155542 best: 1885.3155542 (39) total: 1.04s remaining: 1.56s
40: learn: 1879.9839507 test: 1877.2602560 best: 1877.2602560 (40) total: 1.07s remaining: 1.54s
41: learn: 1874.5689910 test: 1871.9778892 best: 1871.9778892 (41) total: 1.09s remaining: 1.51s
42: learn: 1868.2607511 test: 1865.6121656 best: 1865.6121656 (42) total: 1.11s remaining: 1.48s
43: learn: 1864.0656988 test: 1861.7716973 best: 1861.7716973 (43) total: 1.14s remaining: 1.45s
44: learn: 1859.5347528 test: 1857.2602505 best: 1857.2602505 (44) total: 1.16s remaining: 1.42s
45: learn: 1855.0412019 test: 1853.2721657 best: 1853.2721657 (45) total: 1.19s remaining: 1.39s
46: learn: 1850.6852047 test: 1849.0914111 best: 1849.0914111 (46) total: 1.21s remaining: 1.36s
47: learn: 1845.5015676 test: 1843.9860751 best: 1843.9860751 (47) total: 1.24s remaining: 1.34s
48: learn: 1842.0467927 test: 1841.2284582 best: 1841.2284582 (48) total: 1.27s remaining: 1.32s
49: learn: 1837.5166362 test: 1837.2583384 best: 1837.2583384 (49) total: 1.29s remaining: 1.29s
50: learn: 1834.4429112 test: 1834.3769155 best: 1834.3769155 (50) total: 1.31s remaining: 1.26s
51: learn: 1830.9785374 test: 1830.7060260 best: 1830.7060260 (51) total: 1.35s remaining: 1.24s
52: learn: 1828.1739429 test: 1828.3026717 best: 1828.3026717 (52) total: 1.37s remaining: 1.22s
53: learn: 1823.9395888 test: 1824.2238097 best: 1824.2238097 (53) total: 1.4s remaining: 1.19s
54: learn: 1820.8571873 test: 1821.5756078 best: 1821.5756078 (54) total: 1.42s remaining: 1.16s
55: learn: 1816.5652043 test: 1817.6213625 best: 1817.6213625 (55) total: 1.45s remaining: 1.14s
56: learn: 1813.5201800 test: 1814.8531684 best: 1814.8531684 (56) total: 1.47s remaining: 1.11s
57: learn: 1808.8884579 test: 1811.1227536 best: 1811.1227536 (57) total: 1.5s remaining: 1.08s
58: learn: 1806.5568535 test: 1808.7888680 best: 1808.7888680 (58) total: 1.52s remaining: 1.06s
59: learn: 1804.2146224 test: 1806.5020222 best: 1806.5020222 (59) total: 1.55s remaining: 1.03s

39: learn: 1804.2146234 test: 1806.3030333 best: 1806.3030333 (59) total: 1.55s remaining: 1.05s
60: learn: 1801.6894973 test: 1804.1271128 best: 1804.1271128 (60) total: 1.57s remaining: 1s
61: learn: 1798.2108085 test: 1800.7771997 best: 1800.7771997 (61) total: 1.6s remaining: 978ms
62: learn: 1794.5050009 test: 1797.2189146 best: 1797.2189146 (62) total: 1.62s remaining: 952ms
63: learn: 1791.2522392 test: 1795.1755211 best: 1795.1755211 (63) total: 1.65s remaining: 927ms
64: learn: 1789.0790933 test: 1793.4257664 best: 1793.4257664 (64) total: 1.67s remaining: 901ms
65: learn: 1785.9007533 test: 1790.4872138 best: 1790.4872138 (65) total: 1.7s remaining: 874ms
66: learn: 1783.9500190 test: 1788.5383518 best: 1788.5383518 (66) total: 1.72s remaining: 846ms
67: learn: 1781.8498842 test: 1786.6087777 best: 1786.6087777 (67) total: 1.75s remaining: 821ms
68: learn: 1779.7987330 test: 1784.6891623 best: 1784.6891623 (68) total: 1.77s remaining: 795ms
69: learn: 1777.7513902 test: 1782.7546127 best: 1782.7546127 (69) total: 1.8s remaining: 770ms
70: learn: 1776.1087417 test: 1781.2094736 best: 1781.2094736 (70) total: 1.82s remaining: 743ms
71: learn: 1774.4588983 test: 1779.7135543 best: 1779.7135543 (71) total: 1.85s remaining: 718ms
72: learn: 1772.3691450 test: 1778.0302220 best: 1778.0302220 (72) total: 1.87s remaining: 692ms
73: learn: 1770.7158112 test: 1776.3181155 best: 1776.3181155 (73) total: 1.89s remaining: 666ms
74: learn: 1768.9943633 test: 1774.7307949 best: 1774.7307949 (74) total: 1.92s remaining: 640ms
75: learn: 1767.3016107 test: 1773.4744611 best: 1773.4744611 (75) total: 1.94s remaining: 614ms
76: learn: 1764.7612634 test: 1771.2645478 best: 1771.2645478 (76) total: 1.97s remaining: 589ms
77: learn: 1763.0120031 test: 1769.9483839 best: 1769.9483839 (77) total: 2s remaining: 563ms
78: learn: 1760.5545675 test: 1767.8860175 best: 1767.8860175 (78) total: 2.02s remaining: 537ms
79: learn: 1758.8505289 test: 1766.3931916 best: 1766.3931916 (79) total: 2.05s remaining: 512ms
80: learn: 1756.4332294 test: 1764.3866711 best: 1764.3866711 (80) total: 2.07s remaining: 486ms
81: learn: 1754.1431814 test: 1762.2622021 best: 1762.2622021 (81) total: 2.1s remaining: 460ms
82: learn: 1753.1514077 test: 1761.3142654 best: 1761.3142654 (82) total: 2.12s remaining: 434ms
83: learn: 1751.8242688 test: 1760.2542043 best: 1760.2542043 (83) total: 2.15s remaining: 409ms
84: learn: 1749.9930999 test: 1758.5774202 best: 1758.5774202 (84) total: 2.18s remaining: 384ms
85: learn: 1748.2149748 test: 1757.5883173 best: 1757.5883173 (85) total: 2.21s remaining: 359ms
86: learn: 1746.9999362 test: 1756.5327882 best: 1756.5327882 (86) total: 2.24s remaining: 335ms
87: learn: 1745.5399919 test: 1755.2727659 best: 1755.2727659 (87) total: 2.27s remaining: 310ms
88: learn: 1743.6533297 test: 1753.7851563 best: 1753.7851563 (88) total: 2.31s remaining: 286ms
89: learn: 1742.4742423 test: 1752.6897233 best: 1752.6897233 (89) total: 2.34s remaining: 260ms
90: learn: 1740.9614243 test: 1751.9656025 best: 1751.9656025 (90) total: 2.37s remaining: 235ms
91: learn: 1739.8407232 test: 1751.3966557 best: 1751.3966557 (91) total: 2.39s remaining: 208ms
92: learn: 1738.8814283 test: 1750.4417863 best: 1750.4417863 (92) total: 2.42s remaining: 182ms
93: learn: 1737.2126100 test: 1749.0000931 best: 1749.0000931 (93) total: 2.45s remaining: 156ms
94: learn: 1735.3657628 test: 1747.8530099 best: 1747.8530099 (94) total: 2.47s remaining: 130ms
95: learn: 1734.1687215 test: 1747.2371457 best: 1747.2371457 (95) total: 2.5s remaining: 104ms
96: learn: 1732.0310771 test: 1746.0054986 best: 1746.0054986 (96) total: 2.52s remaining: 78ms
97: learn: 1730.5129582 test: 1744.6607647 best: 1744.6607647 (97) total: 2.55s remaining: 52ms
98: learn: 1729.3112057 test: 1743.6512924 best: 1743.6512924 (98) total: 2.57s remaining: 26ms
99: learn: 1727.9461024 test: 1742.6081300 best: 1742.6081300 (99) total: 2.6s remaining: 0us

bestTest = 1742.60813

bestIteration = 99

77: loss: 1742.6081300 best: 1709.4122952 (65) total: 3m 18s remaining: 45.8s
0: learn: 6802.8922893 test: 6830.2031252 best: 6830.2031252 (0) total: 31.8ms remaining: 3.15s
1: learn: 6629.3290875 test: 6656.3865140 best: 6656.3865140 (1) total: 59.6ms remaining: 2.92s
2: learn: 6461.0604191 test: 6488.0114085 best: 6488.0114085 (2) total: 88.1ms remaining: 2.85s
3: learn: 6299.8486120 test: 6327.0585719 best: 6327.0585719 (3) total: 117ms remaining: 2.8s
4: learn: 6144.0966929 test: 6170.9398090 best: 6170.9398090 (4) total: 146ms remaining: 2.77s
5: learn: 5992.5857509 test: 6019.2821406 best: 6019.2821406 (5) total: 175ms remaining: 2.73s
6: learn: 5845.8798797 test: 5872.5646286 best: 5872.5646286 (6) total: 201ms remaining: 2.68s
7: learn: 5704.9582191 test: 5731.3230184 best: 5731.3230184 (7) total: 232ms remaining: 2.67s
8: learn: 5568.2569362 test: 5594.2785171 best: 5594.2785171 (8) total: 259ms remaining: 2.62s
9: learn: 5435.4267533 test: 5461.1685405 best: 5461.1685405 (9) total: 291ms remaining: 2.62s
10: learn: 5306.7204150 test: 5332.8616043 best: 5332.8616043 (10) total: 318ms remaining: 2.58s
11: learn: 5182.8867002 test: 5208.8747353 best: 5208.8747353 (11) total: 346ms remaining: 2.54s
12: learn: 5064.5257150 test: 5090.2073841 best: 5090.2073841 (12) total: 372ms remaining: 2.49s
13: learn: 4948.0213951 test: 4973.4579253 best: 4973.4579253 (13) total: 397ms remaining: 2.44s
14: learn: 4835.8694855 test: 4860.8740946 best: 4860.8740946 (14) total: 426ms remaining: 2.41s
15: learn: 4728.4517822 test: 4753.2946431 best: 4753.2946431 (15) total: 457ms remaining: 2.4s
16: learn: 4623.8167088 test: 4647.9953900 best: 4647.9953900 (16) total: 484ms remaining: 2.36s
17: learn: 4523.1594626 test: 4547.0844260 best: 4547.0844260 (17) total: 508ms remaining: 2.31s
18: learn: 4425.6534281 test: 4449.1615621 best: 4449.1615621 (18) total: 534ms remaining: 2.27s
19: learn: 4329.9985067 test: 4353.3462871 best: 4353.3462871 (19) total: 558ms remaining: 2.23s
20: learn: 4239.0497527 test: 4261.9184291 best: 4261.9184291 (20) total: 584ms remaining: 2.19s
21: learn: 4151.2013028 test: 4173.6974147 best: 4173.6974147 (21) total: 607ms remaining: 2.15s
22: learn: 4067.6470194 test: 4089.8859627 best: 4089.8859627 (22) total: 634ms remaining: 2.12s
23: learn: 3985.6430407 test: 4007.5371664 best: 4007.5371664 (23) total: 660ms remaining: 2.09s
24: learn: 3908.0681339 test: 3929.3324847 best: 3929.3324847 (24) total: 690ms remaining: 2.07s
25: learn: 3832.2514295 test: 3853.0230595 best: 3853.0230595 (25) total: 722ms remaining: 2.06s
26: learn: 3760.4389477 test: 3780.9511628 best: 3780.9511628 (26) total: 749ms remaining: 2.02s
27: learn: 3690.0703584 test: 3710.0801024 best: 3710.0801024 (27) total: 774ms remaining: 1.99s
28: learn: 3622.6258636 test: 3642.3231589 best: 3642.3231589 (28) total: 801ms remaining: 1.96s
29: learn: 3557.1787077 test: 3576.3833110 best: 3576.3833110 (29) total: 829ms remaining: 1.93s
30: learn: 3494.0585233 test: 3512.9403964 best: 3512.9403964 (30) total: 854ms remaining: 1.9s
31: learn: 3433.8676539 test: 3452.2884021 best: 3452.2884021 (31) total: 880ms remaining: 1.87s
32: learn: 3374.2312123 test: 3392.2622950 best: 3392.2622950 (32) total: 906ms remaining: 1.84s
33: learn: 3317.3383020 test: 3335.1268401 best: 3335.1268401 (33) total: 934ms remaining: 1.81s
34: learn: 3262.0687236 test: 3279.2616710 best: 3279.2616710 (34) total: 959ms remaining: 1.78s
35: learn: 3209.0030027 test: 3225.8553909 best: 3225.8553909 (35) total: 984ms remaining: 1.75s
36: learn: 3157.7198799 test: 3174.0713109 best: 3174.0713109 (36) total: 1.01s remaining: 1.72s

37: learn: 3108.5241470 test: 3124.6826496 best: 3124.6826496 (37) total: 1.03s remaining: 1.69s
38: learn: 3062.1813469 test: 3077.9084924 best: 3077.9084924 (38) total: 1.06s remaining: 1.66s
39: learn: 3018.7814994 test: 3034.1274114 best: 3034.1274114 (39) total: 1.08s remaining: 1.63s
40: learn: 2976.3547979 test: 2991.3249760 best: 2991.3249760 (40) total: 1.12s remaining: 1.61s
41: learn: 2935.4725071 test: 2949.9189164 best: 2949.9189164 (41) total: 1.14s remaining: 1.58s
42: learn: 2895.9878888 test: 2910.2056486 best: 2910.2056486 (42) total: 1.17s remaining: 1.55s
43: learn: 2857.3230495 test: 2871.1126085 best: 2871.1126085 (43) total: 1.2s remaining: 1.52s
44: learn: 2821.0974047 test: 2834.3363850 best: 2834.3363850 (44) total: 1.22s remaining: 1.5s
45: learn: 2786.1145256 test: 2798.8055682 best: 2798.8055682 (45) total: 1.25s remaining: 1.47s
46: learn: 2752.9055936 test: 2765.1628205 best: 2765.1628205 (46) total: 1.28s remaining: 1.44s
47: learn: 2719.8960132 test: 2731.8027251 best: 2731.8027251 (47) total: 1.31s remaining: 1.42s
48: learn: 2689.5547904 test: 2701.0030382 best: 2701.0030382 (48) total: 1.34s remaining: 1.39s
49: learn: 2659.7544844 test: 2671.1175149 best: 2671.1175149 (49) total: 1.37s remaining: 1.37s
50: learn: 2630.4583201 test: 2641.2359818 best: 2641.2359818 (50) total: 1.4s remaining: 1.34s
51: learn: 2603.4625820 test: 2614.1755852 best: 2614.1755852 (51) total: 1.42s remaining: 1.31s
52: learn: 2577.5369690 test: 2587.7198061 best: 2587.7198061 (52) total: 1.45s remaining: 1.28s
53: learn: 2551.9419034 test: 2561.5521122 best: 2561.5521122 (53) total: 1.47s remaining: 1.25s
54: learn: 2527.6212933 test: 2536.9619986 best: 2536.9619986 (54) total: 1.5s remaining: 1.23s
55: learn: 2504.1313655 test: 2513.2264524 best: 2513.2264524 (55) total: 1.53s remaining: 1.2s
56: learn: 2480.9842696 test: 2489.9181855 best: 2489.9181855 (56) total: 1.55s remaining: 1.17s
57: learn: 2458.6387159 test: 2467.2583935 best: 2467.2583935 (57) total: 1.58s remaining: 1.14s
58: learn: 2437.6741646 test: 2445.9082369 best: 2445.9082369 (58) total: 1.61s remaining: 1.12s
59: learn: 2417.6553320 test: 2425.3975085 best: 2425.3975085 (59) total: 1.63s remaining: 1.09s
60: learn: 2398.3857225 test: 2405.7996476 best: 2405.7996476 (60) total: 1.66s remaining: 1.06s
61: learn: 2379.7015210 test: 2386.7144702 best: 2386.7144702 (61) total: 1.68s remaining: 1.03s
62: learn: 2362.1514249 test: 2368.9323598 best: 2368.9323598 (62) total: 1.71s remaining: 1s
63: learn: 2342.3212734 test: 2348.8243196 best: 2348.8243196 (63) total: 1.73s remaining: 975ms
64: learn: 2324.2769345 test: 2330.4944945 best: 2330.4944945 (64) total: 1.76s remaining: 947ms
65: learn: 2309.1016603 test: 2314.8917358 best: 2314.8917358 (65) total: 1.78s remaining: 918ms
66: learn: 2294.1221997 test: 2299.4342379 best: 2299.4342379 (66) total: 1.81s remaining: 892ms
67: learn: 2280.2375835 test: 2285.2327867 best: 2285.2327867 (67) total: 1.83s remaining: 863ms
68: learn: 2265.2408087 test: 2269.8992863 best: 2269.8992863 (68) total: 1.86s remaining: 835ms
69: learn: 2251.9704796 test: 2256.2412989 best: 2256.2412989 (69) total: 1.88s remaining: 807ms
70: learn: 2237.2731125 test: 2241.2636951 best: 2241.2636951 (70) total: 1.91s remaining: 780ms
71: learn: 2224.6707136 test: 2228.4513297 best: 2228.4513297 (71) total: 1.93s remaining: 751ms
72: learn: 2212.9708124 test: 2216.2483476 best: 2216.2483476 (72) total: 1.96s remaining: 723ms
73: learn: 2201.4969143 test: 2204.6160704 best: 2204.6160704 (73) total: 1.98s remaining: 696ms
74: learn: 2189.9951798 test: 2192.9622202 best: 2192.9622202 (74) total: 2.01s remaining: 670ms
75: learn: 2179.3002268 test: 2182.0585495 best: 2182.0585495 (75) total: 2.03s remaining: 642ms
76: learn: 2168.4558065 test: 2171.0169040 best: 2171.0169040 (76) total: 2.06s remaining: 615ms
77: learn: 2159.0508656 test: 2161.2577082 best: 2161.2577082 (77) total: 2.08s remaining: 588ms

78: learn: 2148.6988455 test: 2150.5672854 best: 2150.5672854 (78) total: 2.11s remaining: 561ms
79: learn: 2137.8717737 test: 2139.6367994 best: 2139.6367994 (79) total: 2.13s remaining: 534ms
80: learn: 2128.2617506 test: 2129.8480213 best: 2129.8480213 (80) total: 2.16s remaining: 507ms
81: learn: 2119.3912449 test: 2120.8399171 best: 2120.8399171 (81) total: 2.19s remaining: 480ms
82: learn: 2109.9028984 test: 2111.2151280 best: 2111.2151280 (82) total: 2.22s remaining: 455ms
83: learn: 2102.1034030 test: 2103.1393202 best: 2103.1393202 (83) total: 2.24s remaining: 428ms
84: learn: 2094.5443348 test: 2095.4367369 best: 2095.4367369 (84) total: 2.27s remaining: 400ms
85: learn: 2085.7504637 test: 2086.4470940 best: 2086.4470940 (85) total: 2.29s remaining: 373ms
86: learn: 2077.2565473 test: 2077.8847107 best: 2077.8847107 (86) total: 2.32s remaining: 347ms
87: learn: 2070.2848510 test: 2070.7520735 best: 2070.7520735 (87) total: 2.34s remaining: 319ms
88: learn: 2062.4344269 test: 2062.5804245 best: 2062.5804245 (88) total: 2.37s remaining: 293ms
89: learn: 2056.2421994 test: 2056.0988182 best: 2056.0988182 (89) total: 2.39s remaining: 266ms
90: learn: 2049.7618415 test: 2049.4321916 best: 2049.4321916 (90) total: 2.42s remaining: 239ms
91: learn: 2043.8221562 test: 2043.3753721 best: 2043.3753721 (91) total: 2.44s remaining: 213ms
92: learn: 2037.8943859 test: 2037.3294598 best: 2037.3294598 (92) total: 2.47s remaining: 186ms
93: learn: 2032.0177234 test: 2031.3609418 best: 2031.3609418 (93) total: 2.49s remaining: 159ms
94: learn: 2026.2105965 test: 2025.3069270 best: 2025.3069270 (94) total: 2.52s remaining: 132ms
95: learn: 2019.9679158 test: 2019.0243915 best: 2019.0243915 (95) total: 2.54s remaining: 106ms
96: learn: 2014.8845453 test: 2013.6466050 best: 2013.6466050 (96) total: 2.57s remaining: 79.4ms
97: learn: 2009.7873267 test: 2008.6033739 best: 2008.6033739 (97) total: 2.59s remaining: 52.9ms
98: learn: 2004.0907106 test: 2002.9029754 best: 2002.9029754 (98) total: 2.62s remaining: 26.5ms
99: learn: 1999.2696843 test: 1998.0323196 best: 1998.0323196 (99) total: 2.65s remaining: 0us

bestTest = 1998.03232

bestIteration = 99

78: loss: 1998.0323196 best: 1709.4122952 (65) total: 3m 21s remaining: 43.3s
0: learn: 6387.9010709 test: 6413.3781034 best: 6413.3781034 (0) total: 27.9ms remaining: 2.76s
1: learn: 5857.7361685 test: 5883.0145157 best: 5883.0145157 (1) total: 56.9ms remaining: 2.79s
2: learn: 5385.4612462 test: 5410.4054427 best: 5410.4054427 (2) total: 83.8ms remaining: 2.71s
3: learn: 4968.3279829 test: 4992.7986362 best: 4992.7986362 (3) total: 110ms remaining: 2.64s
4: learn: 4604.2861747 test: 4627.5190614 best: 4627.5190614 (4) total: 142ms remaining: 2.69s
5: learn: 4276.5912415 test: 4298.1193694 best: 4298.1193694 (5) total: 167ms remaining: 2.62s
6: learn: 3984.2714208 test: 4004.3133089 best: 4004.3133089 (6) total: 193ms remaining: 2.57s
7: learn: 3724.8725215 test: 3743.4165792 best: 3743.4165792 (7) total: 220ms remaining: 2.53s
8: learn: 3498.8069486 test: 3515.1739170 best: 3515.1739170 (8) total: 249ms remaining: 2.51s
9: learn: 3296.4359331 test: 3311.8703973 best: 3311.8703973 (9) total: 276ms remaining: 2.48s
10: learn: 3124.4684869 test: 3138.7015747 best: 3138.7015747 (10) total: 302ms remaining: 2.44s
11: learn: 2968.7215631 test: 2981.8511436 best: 2981.8511436 (11) total: 327ms remaining: 2.4s
12: learn: 2832.3591441 test: 2844.5337024 best: 2844.5337024 (12) total: 357ms remaining: 2.39s
13: learn: 2717.0455280 test: 2727.3368868 best: 2727.3368868 (13) total: 391ms remaining: 2.4s
14: learn: 2616.2504840 test: 2625.8865165 best: 2625.8865165 (14) total: 419ms remaining: 2.38s

14: learn: 2610.2504840 test: 2625.6663165 best: 2625.6663165 (14) total: 415ms remaining: 2.05s
15: learn: 2528.8610287 test: 2537.8699620 best: 2537.8699620 (15) total: 451ms remaining: 2.37s
16: learn: 2453.6041198 test: 2461.6902077 best: 2461.6902077 (16) total: 479ms remaining: 2.34s
17: learn: 2387.9347882 test: 2394.8503757 best: 2394.8503757 (17) total: 506ms remaining: 2.31s
18: learn: 2330.2487493 test: 2335.9185216 best: 2335.9185216 (18) total: 540ms remaining: 2.3s
19: learn: 2269.8023601 test: 2274.5089256 best: 2274.5089256 (19) total: 566ms remaining: 2.26s
20: learn: 2220.0329665 test: 2224.3304133 best: 2224.3304133 (20) total: 591ms remaining: 2.22s
21: learn: 2181.0896109 test: 2184.2260630 best: 2184.2260630 (21) total: 618ms remaining: 2.19s
22: learn: 2142.4700588 test: 2145.1335560 best: 2145.1335560 (22) total: 647ms remaining: 2.17s
23: learn: 2114.3157333 test: 2116.2607277 best: 2116.2607277 (23) total: 671ms remaining: 2.12s
24: learn: 2089.5064498 test: 2089.8641521 best: 2089.8641521 (24) total: 695ms remaining: 2.09s
25: learn: 2066.9655683 test: 2066.7504462 best: 2066.7504462 (25) total: 721ms remaining: 2.05s
26: learn: 2042.4850624 test: 2041.6361624 best: 2041.6361624 (26) total: 752ms remaining: 2.03s
27: learn: 2021.8285034 test: 2020.6759458 best: 2020.6759458 (27) total: 779ms remaining: 2s
28: learn: 2004.5055127 test: 2002.7889272 best: 2002.7889272 (28) total: 804ms remaining: 1.97s
29: learn: 1989.6743905 test: 1987.7392775 best: 1987.7392775 (29) total: 830ms remaining: 1.94s
30: learn: 1976.0207548 test: 1973.5665854 best: 1973.5665854 (30) total: 856ms remaining: 1.91s
31: learn: 1962.0600142 test: 1959.4232699 best: 1959.4232699 (31) total: 882ms remaining: 1.88s
32: learn: 1948.3152161 test: 1946.0963252 best: 1946.0963252 (32) total: 910ms remaining: 1.85s
33: learn: 1938.2497610 test: 1935.4686840 best: 1935.4686840 (33) total: 938ms remaining: 1.82s
34: learn: 1928.6827673 test: 1925.6190450 best: 1925.6190450 (34) total: 963ms remaining: 1.79s
35: learn: 1920.8549003 test: 1917.9445418 best: 1917.9445418 (35) total: 989ms remaining: 1.76s
36: learn: 1912.6610899 test: 1909.7816534 best: 1909.7816534 (36) total: 1.01s remaining: 1.73s
37: learn: 1905.8685598 test: 1902.6529879 best: 1902.6529879 (37) total: 1.04s remaining: 1.69s
38: learn: 1899.2590021 test: 1896.0134875 best: 1896.0134875 (38) total: 1.07s remaining: 1.67s
39: learn: 1892.3005360 test: 1889.5640103 best: 1889.5640103 (39) total: 1.1s remaining: 1.65s
40: learn: 1885.0470043 test: 1882.2146572 best: 1882.2146572 (40) total: 1.14s remaining: 1.64s
41: learn: 1878.0513773 test: 1875.2864543 best: 1875.2864543 (41) total: 1.18s remaining: 1.62s
42: learn: 1873.4304123 test: 1870.9155275 best: 1870.9155275 (42) total: 1.21s remaining: 1.6s
43: learn: 1869.0925004 test: 1866.2241016 best: 1866.2241016 (43) total: 1.24s remaining: 1.58s
44: learn: 1864.5230117 test: 1861.7415109 best: 1861.7415109 (44) total: 1.26s remaining: 1.54s
45: learn: 1860.1391258 test: 1857.5767666 best: 1857.5767666 (45) total: 1.29s remaining: 1.51s
46: learn: 1855.2640928 test: 1853.4231196 best: 1853.4231196 (46) total: 1.31s remaining: 1.48s
47: learn: 1851.2354074 test: 1849.4276914 best: 1849.4276914 (47) total: 1.33s remaining: 1.45s
48: learn: 1846.9896834 test: 1845.5802811 best: 1845.5802811 (48) total: 1.36s remaining: 1.41s
49: learn: 1843.2531454 test: 1841.6700138 best: 1841.6700138 (49) total: 1.38s remaining: 1.38s
50: learn: 1836.3693930 test: 1834.6560019 best: 1834.6560019 (50) total: 1.41s remaining: 1.35s
51: learn: 1832.0469124 test: 1830.4991259 best: 1830.4991259 (51) total: 1.44s remaining: 1.33s
52: learn: 1829.2154984 test: 1827.6918723 best: 1827.6918723 (52) total: 1.46s remaining: 1.29s
53: learn: 1825.1672766 test: 1823.6641213 best: 1823.6641213 (53) total: 1.49s remaining: 1.26s
54: learn: 1820.6182549 test: 1819.7448864 best: 1819.7448864 (54) total: 1.51s remaining: 1.24s
55: learn: 1818.1585506 test: 1817.4209895 best: 1817.4209895 (55) total: 1.53s remaining: 1.21s

56: learn: 1815.2885875 test: 1814.4175023 best: 1814.4175023 (56) total: 1.56s remaining: 1.17s
57: learn: 1812.4425248 test: 1811.7167641 best: 1811.7167641 (57) total: 1.58s remaining: 1.14s
58: learn: 1809.6258140 test: 1809.0363044 best: 1809.0363044 (58) total: 1.6s remaining: 1.11s
59: learn: 1806.8993740 test: 1806.5133270 best: 1806.5133270 (59) total: 1.63s remaining: 1.09s
60: learn: 1804.4226863 test: 1804.2579825 best: 1804.2579825 (60) total: 1.65s remaining: 1.06s
61: learn: 1802.5316464 test: 1802.2048044 best: 1802.2048044 (61) total: 1.68s remaining: 1.03s
62: learn: 1799.8589297 test: 1799.7090940 best: 1799.7090940 (62) total: 1.7s remaining: 1000ms
63: learn: 1797.7861776 test: 1797.6948666 best: 1797.6948666 (63) total: 1.73s remaining: 971ms
64: learn: 1795.1954924 test: 1795.3852308 best: 1795.3852308 (64) total: 1.75s remaining: 944ms
65: learn: 1792.8066509 test: 1793.7648777 best: 1793.7648777 (65) total: 1.77s remaining: 914ms
66: learn: 1790.7223777 test: 1791.6953105 best: 1791.6953105 (66) total: 1.8s remaining: 885ms
67: learn: 1788.1503899 test: 1788.9158249 best: 1788.9158249 (67) total: 1.82s remaining: 857ms
68: learn: 1786.5898617 test: 1787.6733857 best: 1787.6733857 (68) total: 1.85s remaining: 831ms
69: learn: 1784.5547634 test: 1786.0130899 best: 1786.0130899 (69) total: 1.87s remaining: 802ms
70: learn: 1782.6620501 test: 1784.5590813 best: 1784.5590813 (70) total: 1.9s remaining: 775ms
71: learn: 1780.8179918 test: 1782.9505290 best: 1782.9505290 (71) total: 1.92s remaining: 747ms
72: learn: 1778.9116646 test: 1780.8985630 best: 1780.8985630 (72) total: 1.94s remaining: 719ms
73: learn: 1777.4393425 test: 1779.2831979 best: 1779.2831979 (73) total: 1.97s remaining: 691ms
74: learn: 1776.0938031 test: 1778.0813337 best: 1778.0813337 (74) total: 1.99s remaining: 663ms
75: learn: 1773.5661356 test: 1775.8790087 best: 1775.8790087 (75) total: 2.01s remaining: 636ms
76: learn: 1770.1176442 test: 1772.9262836 best: 1772.9262836 (76) total: 2.04s remaining: 611ms
77: learn: 1766.9497531 test: 1770.3538584 best: 1770.3538584 (77) total: 2.07s remaining: 584ms
78: learn: 1764.1982890 test: 1768.2758488 best: 1768.2758488 (78) total: 2.1s remaining: 557ms
79: learn: 1761.1860245 test: 1765.6908421 best: 1765.6908421 (79) total: 2.12s remaining: 531ms
80: learn: 1759.1664186 test: 1763.9345608 best: 1763.9345608 (80) total: 2.15s remaining: 504ms
81: learn: 1757.8480850 test: 1762.9325503 best: 1762.9325503 (81) total: 2.17s remaining: 477ms
82: learn: 1755.8853734 test: 1761.1411724 best: 1761.1411724 (82) total: 2.2s remaining: 450ms
83: learn: 1754.8563371 test: 1760.3942170 best: 1760.3942170 (83) total: 2.22s remaining: 423ms
84: learn: 1753.1481217 test: 1758.9340410 best: 1758.9340410 (84) total: 2.25s remaining: 397ms
85: learn: 1751.6267552 test: 1757.6228864 best: 1757.6228864 (85) total: 2.27s remaining: 370ms
86: learn: 1750.4044227 test: 1756.6752304 best: 1756.6752304 (86) total: 2.3s remaining: 343ms
87: learn: 1749.0470098 test: 1755.1363859 best: 1755.1363859 (87) total: 2.32s remaining: 316ms
88: learn: 1747.1973146 test: 1753.2292643 best: 1753.2292643 (88) total: 2.34s remaining: 289ms
89: learn: 1745.4308455 test: 1751.9675409 best: 1751.9675409 (89) total: 2.37s remaining: 263ms
90: learn: 1743.1767695 test: 1749.9562699 best: 1749.9562699 (90) total: 2.39s remaining: 237ms
91: learn: 1741.8737728 test: 1749.1690847 best: 1749.1690847 (91) total: 2.42s remaining: 210ms
92: learn: 1740.9514239 test: 1748.3137521 best: 1748.3137521 (92) total: 2.44s remaining: 184ms
93: learn: 1739.5270197 test: 1747.2850863 best: 1747.2850863 (93) total: 2.46s remaining: 157ms
94: learn: 1737.8493765 test: 1746.2602109 best: 1746.2602109 (94) total: 2.49s remaining: 131ms
95: learn: 1736.6396812 test: 1745.3383709 best: 1745.3383709 (95) total: 2.51s remaining: 105ms
96: learn: 1735.0334736 test: 1743.5601955 best: 1743.5601955 (96) total: 2.54s remaining: 78.6ms

97: learn: 1733.5714839 test: 1742.6808429 best: 1742.6808429 (97) total: 2.56s remaining: 52.3ms
98: learn: 1731.8733378 test: 1741.2235134 best: 1741.2235134 (98) total: 2.59s remaining: 26.1ms
99: learn: 1730.3744137 test: 1740.1097340 best: 1740.1097340 (99) total: 2.61s remaining: 0us

bestTest = 1740.109734

bestIteration = 99

79: loss: 1740.1097340 best: 1709.4122952 (65) total: 3m 23s remaining: 40.8s
0: learn: 6802.4650498 test: 6829.7849825 best: 6829.7849825 (0) total: 28.1ms remaining: 4.18s
1: learn: 6628.5063111 test: 6655.5788597 best: 6655.5788597 (1) total: 54.2ms remaining: 4.01s
2: learn: 6459.9296609 test: 6486.8893716 best: 6486.8893716 (2) total: 81.2ms remaining: 3.98s
3: learn: 6298.5448478 test: 6325.7734785 best: 6325.7734785 (3) total: 113ms remaining: 4.14s
4: learn: 6142.3874791 test: 6169.2818898 best: 6169.2818898 (4) total: 148ms remaining: 4.3s
5: learn: 5990.4442651 test: 6017.1847327 best: 6017.1847327 (5) total: 181ms remaining: 4.35s
6: learn: 5843.3977700 test: 5870.1886390 best: 5870.1886390 (6) total: 218ms remaining: 4.46s
7: learn: 5702.3710468 test: 5728.8407237 best: 5728.8407237 (7) total: 250ms remaining: 4.43s
8: learn: 5565.4138791 test: 5591.5293266 best: 5591.5293266 (8) total: 280ms remaining: 4.38s
9: learn: 5432.3041119 test: 5458.1585702 best: 5458.1585702 (9) total: 315ms remaining: 4.42s
10: learn: 5303.4362787 test: 5329.6977546 best: 5329.6977546 (10) total: 342ms remaining: 4.33s
11: learn: 5179.4060792 test: 5205.4944242 best: 5205.4944242 (11) total: 373ms remaining: 4.29s
12: learn: 5060.6765757 test: 5086.5156494 best: 5086.5156494 (12) total: 400ms remaining: 4.21s
13: learn: 4943.8014383 test: 4969.4190656 best: 4969.4190656 (13) total: 426ms remaining: 4.14s
14: learn: 4831.4322938 test: 4856.6171912 best: 4856.6171912 (14) total: 454ms remaining: 4.08s
15: learn: 4723.9710628 test: 4748.9899456 best: 4748.9899456 (15) total: 480ms remaining: 4.02s
16: learn: 4619.1310303 test: 4643.5125399 best: 4643.5125399 (16) total: 512ms remaining: 4.01s
17: learn: 4518.4510630 test: 4542.5853519 best: 4542.5853519 (17) total: 539ms remaining: 3.95s
18: learn: 4420.8849778 test: 4444.6078089 best: 4444.6078089 (18) total: 565ms remaining: 3.89s
19: learn: 4325.2433001 test: 4348.8027750 best: 4348.8027750 (19) total: 592ms remaining: 3.85s
20: learn: 4233.3684294 test: 4256.4725648 best: 4256.4725648 (20) total: 621ms remaining: 3.81s
21: learn: 4145.8345495 test: 4168.5259523 best: 4168.5259523 (21) total: 647ms remaining: 3.77s
22: learn: 4061.5203050 test: 4083.8530144 best: 4083.8530144 (22) total: 674ms remaining: 3.72s
23: learn: 3979.2395342 test: 4001.3572480 best: 4001.3572480 (23) total: 704ms remaining: 3.69s
24: learn: 3901.3917349 test: 3922.8770666 best: 3922.8770666 (24) total: 731ms remaining: 3.66s
25: learn: 3826.5356235 test: 3847.4905000 best: 3847.4905000 (25) total: 758ms remaining: 3.61s
26: learn: 3754.6769805 test: 3775.4105699 best: 3775.4105699 (26) total: 782ms remaining: 3.56s
27: learn: 3684.0489974 test: 3704.3947331 best: 3704.3947331 (27) total: 809ms remaining: 3.53s
28: learn: 3616.6016924 test: 3636.6988987 best: 3636.6988987 (28) total: 835ms remaining: 3.48s
29: learn: 3551.5083485 test: 3571.3038701 best: 3571.3038701 (29) total: 862ms remaining: 3.45s
30: learn: 3489.5850522 test: 3509.0810900 best: 3509.0810900 (30) total: 893ms remaining: 3.43s
31: learn: 3429.4452877 test: 3448.4849461 best: 3448.4849461 (31) total: 922ms remaining: 3.4s
32: learn: 3369.8086892 test: 3388.4033798 best: 3388.4033798 (32) total: 948ms remaining: 3.36s

33: learn: 3312.8364716 test: 3331.1891566 best: 3331.1891566 (33) total: 976ms remaining: 3.33s
34: learn: 3257.1278142 test: 3274.9817866 best: 3274.9817866 (34) total: 1s remaining: 3.29s
35: learn: 3203.8541307 test: 3221.3796312 best: 3221.3796312 (35) total: 1.03s remaining: 3.25s
36: learn: 3152.4955485 test: 3169.6145480 best: 3169.6145480 (36) total: 1.05s remaining: 3.21s
37: learn: 3103.0907210 test: 3120.0202919 best: 3120.0202919 (37) total: 1.08s remaining: 3.19s
38: learn: 3056.5686714 test: 3073.0804207 best: 3073.0804207 (38) total: 1.11s remaining: 3.15s
39: learn: 3012.2316969 test: 3028.2676273 best: 3028.2676273 (39) total: 1.13s remaining: 3.12s
40: learn: 2969.8314146 test: 2985.4908392 best: 2985.4908392 (40) total: 1.16s remaining: 3.09s
41: learn: 2928.8548752 test: 2943.8346181 best: 2943.8346181 (41) total: 1.19s remaining: 3.07s
42: learn: 2889.4684489 test: 2904.2143631 best: 2904.2143631 (42) total: 1.22s remaining: 3.04s
43: learn: 2850.9445540 test: 2865.2467334 best: 2865.2467334 (43) total: 1.25s remaining: 3.01s
44: learn: 2814.6719990 test: 2828.5439418 best: 2828.5439418 (44) total: 1.27s remaining: 2.97s
45: learn: 2779.3897668 test: 2792.7731168 best: 2792.7731168 (45) total: 1.31s remaining: 2.96s
46: learn: 2745.7238168 test: 2758.7330161 best: 2758.7330161 (46) total: 1.33s remaining: 2.92s
47: learn: 2712.6572282 test: 2725.3177278 best: 2725.3177278 (47) total: 1.36s remaining: 2.89s
48: learn: 2682.0990098 test: 2694.3797101 best: 2694.3797101 (48) total: 1.38s remaining: 2.85s
49: learn: 2652.1524814 test: 2664.2830048 best: 2664.2830048 (49) total: 1.41s remaining: 2.83s
50: learn: 2623.3358325 test: 2634.8737489 best: 2634.8737489 (50) total: 1.44s remaining: 2.79s
51: learn: 2596.5263253 test: 2608.0707375 best: 2608.0707375 (51) total: 1.46s remaining: 2.75s
52: learn: 2570.6727868 test: 2581.7038065 best: 2581.7038065 (52) total: 1.49s remaining: 2.72s
53: learn: 2545.1209175 test: 2555.7784018 best: 2555.7784018 (53) total: 1.51s remaining: 2.69s
54: learn: 2521.1334859 test: 2531.3392481 best: 2531.3392481 (54) total: 1.54s remaining: 2.66s
55: learn: 2498.0703432 test: 2507.9393867 best: 2507.9393867 (55) total: 1.57s remaining: 2.63s
56: learn: 2475.2419540 test: 2485.0136683 best: 2485.0136683 (56) total: 1.6s remaining: 2.61s
57: learn: 2453.0587707 test: 2462.4480370 best: 2462.4480370 (57) total: 1.63s remaining: 2.58s
58: learn: 2430.9799399 test: 2440.1740864 best: 2440.1740864 (58) total: 1.65s remaining: 2.55s
59: learn: 2411.1951542 test: 2419.8976083 best: 2419.8976083 (59) total: 1.68s remaining: 2.51s
60: learn: 2391.4673937 test: 2399.6594567 best: 2399.6594567 (60) total: 1.7s remaining: 2.48s
61: learn: 2373.7322544 test: 2381.6650650 best: 2381.6650650 (61) total: 1.73s remaining: 2.45s
62: learn: 2356.6075884 test: 2364.0973101 best: 2364.0973101 (62) total: 1.75s remaining: 2.42s
63: learn: 2337.0748217 test: 2344.2602274 best: 2344.2602274 (63) total: 1.79s remaining: 2.4s
64: learn: 2318.2371492 test: 2325.1583089 best: 2325.1583089 (64) total: 1.81s remaining: 2.37s
65: learn: 2302.8652588 test: 2309.4814384 best: 2309.4814384 (65) total: 1.84s remaining: 2.34s
66: learn: 2287.9549709 test: 2294.3660727 best: 2294.3660727 (66) total: 1.86s remaining: 2.31s
67: learn: 2273.9702497 test: 2279.9749035 best: 2279.9749035 (67) total: 1.9s remaining: 2.29s
68: learn: 2259.2751522 test: 2265.1182335 best: 2265.1182335 (68) total: 1.93s remaining: 2.26s
69: learn: 2244.3764286 test: 2249.9193990 best: 2249.9193990 (69) total: 1.95s remaining: 2.23s
70: learn: 2231.3966433 test: 2236.8553931 best: 2236.8553931 (70) total: 1.98s remaining: 2.2s
71: learn: 2218.1943909 test: 2223.3266694 best: 2223.3266694 (71) total: 2s remaining: 2.17s
72: learn: 2206.3929932 test: 2211.1754207 best: 2211.1754207 (72) total: 2.03s remaining: 2.14s
73: learn: 2194.9344032 test: 2199.5935710 best: 2199.5935710 (73) total: 2.05s remaining: 2.11s
74: learn: 2183.2200291 test: 2187.5963089 best: 2187.5963089 (74) total: 2.08s remaining: 2.08s

75: learn: 2171.1943942 test: 2175.2500524 best: 2175.2500524 (75) total: 2.1s remaining: 2.04s
76: learn: 2160.5877432 test: 2164.2756713 best: 2164.2756713 (76) total: 2.13s remaining: 2.02s
77: learn: 2151.0527850 test: 2154.5673708 best: 2154.5673708 (77) total: 2.15s remaining: 1.99s
78: learn: 2139.8763850 test: 2142.9600348 best: 2142.9600348 (78) total: 2.18s remaining: 1.96s
79: learn: 2130.4916561 test: 2133.3645610 best: 2133.3645610 (79) total: 2.2s remaining: 1.93s
80: learn: 2121.3467205 test: 2124.0824196 best: 2124.0824196 (80) total: 2.23s remaining: 1.9s
81: learn: 2112.8528044 test: 2115.2513985 best: 2115.2513985 (81) total: 2.26s remaining: 1.87s
82: learn: 2103.7521192 test: 2105.9333791 best: 2105.9333791 (82) total: 2.29s remaining: 1.85s
83: learn: 2095.8855832 test: 2097.8578556 best: 2097.8578556 (83) total: 2.32s remaining: 1.83s
84: learn: 2088.4382133 test: 2090.2997153 best: 2090.2997153 (84) total: 2.35s remaining: 1.8s
85: learn: 2081.3796244 test: 2083.1183984 best: 2083.1183984 (85) total: 2.37s remaining: 1.77s
86: learn: 2072.8478517 test: 2074.4305621 best: 2074.4305621 (86) total: 2.4s remaining: 1.74s
87: learn: 2066.1761457 test: 2067.6277053 best: 2067.6277053 (87) total: 2.43s remaining: 1.71s
88: learn: 2058.0121205 test: 2059.3148146 best: 2059.3148146 (88) total: 2.45s remaining: 1.68s
89: learn: 2051.4569199 test: 2052.5553021 best: 2052.5553021 (89) total: 2.48s remaining: 1.66s
90: learn: 2045.1037922 test: 2045.9843985 best: 2045.9843985 (90) total: 2.51s remaining: 1.63s
91: learn: 2038.7033980 test: 2039.5363293 best: 2039.5363293 (91) total: 2.53s remaining: 1.6s
92: learn: 2032.6313141 test: 2033.5241622 best: 2033.5241622 (92) total: 2.56s remaining: 1.57s
93: learn: 2026.5973411 test: 2027.3770669 best: 2027.3770669 (93) total: 2.58s remaining: 1.54s
94: learn: 2021.0487298 test: 2021.5650385 best: 2021.5650385 (94) total: 2.61s remaining: 1.51s
95: learn: 2014.6341932 test: 2014.9848853 best: 2014.9848853 (95) total: 2.63s remaining: 1.48s
96: learn: 2009.7061149 test: 2009.6857619 best: 2009.6857619 (96) total: 2.66s remaining: 1.45s
97: learn: 2003.7457826 test: 2003.6755372 best: 2003.6755372 (97) total: 2.69s remaining: 1.43s
98: learn: 1999.1293893 test: 1998.8443995 best: 1998.8443995 (98) total: 2.71s remaining: 1.4s
99: learn: 1994.5047977 test: 1994.1442035 best: 1994.1442035 (99) total: 2.74s remaining: 1.37s
100: learn: 1989.8189144 test: 1989.3728647 best: 1989.3728647 (100) total: 2.76s remaining: 1.34s
101: learn: 1985.3641645 test: 1984.6821159 best: 1984.6821159 (101) total: 2.79s remaining: 1.31s
102: learn: 1980.3381511 test: 1979.5418714 best: 1979.5418714 (102) total: 2.81s remaining: 1.28s
103: learn: 1975.7385281 test: 1975.0433403 best: 1975.0433403 (103) total: 2.84s remaining: 1.26s
104: learn: 1971.0908314 test: 1970.4066265 best: 1970.4066265 (104) total: 2.86s remaining: 1.23s
105: learn: 1967.3511670 test: 1966.4236155 best: 1966.4236155 (105) total: 2.89s remaining: 1.2s
106: learn: 1963.8042064 test: 1962.7539913 best: 1962.7539913 (106) total: 2.92s remaining: 1.17s
107: learn: 1960.2783239 test: 1959.0652263 best: 1959.0652263 (107) total: 2.94s remaining: 1.14s
108: learn: 1956.8202608 test: 1955.5413619 best: 1955.5413619 (108) total: 2.97s remaining: 1.11s
109: learn: 1953.4792217 test: 1952.1264479 best: 1952.1264479 (109) total: 2.99s remaining: 1.09s
110: learn: 1949.0733471 test: 1947.6599145 best: 1947.6599145 (110) total: 3.02s remaining: 1.06s
111: learn: 1945.6472050 test: 1944.1545862 best: 1944.1545862 (111) total: 3.04s remaining: 1.03s
112: learn: 1942.5389545 test: 1941.0631120 best: 1941.0631120 (112) total: 3.07s remaining: 1s
113: learn: 1939.6748638 test: 1937.9272827 best: 1937.9272827 (113) total: 3.09s remaining: 977ms
114: learn: 1936.2307631 test: 1934.5035615 best: 1934.5035615 (114) total: 3.12s remaining: 949ms
115: learn: 1932.4980931 test: 1930.7867187 best: 1930.7867187 (115) total: 3.14s remaining: 921ms

116: learn: 1929.5906199 test: 1927.8848655 best: 1927.8848655 (116) total: 3.17s remaining: 893ms
117: learn: 1926.5168956 test: 1924.8473019 best: 1924.8473019 (117) total: 3.19s remaining: 866ms
118: learn: 1923.6892698 test: 1921.8815013 best: 1921.8815013 (118) total: 3.22s remaining: 838ms
119: learn: 1920.9970259 test: 1919.0804065 best: 1919.0804065 (119) total: 3.24s remaining: 810ms
120: learn: 1918.7645420 test: 1916.7338811 best: 1916.7338811 (120) total: 3.26s remaining: 782ms
121: learn: 1916.5335382 test: 1914.5956816 best: 1914.5956816 (121) total: 3.29s remaining: 756ms
122: learn: 1913.6351540 test: 1911.8366941 best: 1911.8366941 (122) total: 3.32s remaining: 728ms
123: learn: 1911.3503152 test: 1909.5229184 best: 1909.5229184 (123) total: 3.34s remaining: 701ms
124: learn: 1908.8148942 test: 1906.9612544 best: 1906.9612544 (124) total: 3.37s remaining: 674ms
125: learn: 1906.3210925 test: 1904.4877536 best: 1904.4877536 (125) total: 3.4s remaining: 647ms
126: learn: 1904.0559596 test: 1902.1760376 best: 1902.1760376 (126) total: 3.42s remaining: 620ms
127: learn: 1902.0169114 test: 1900.0901899 best: 1900.0901899 (127) total: 3.45s remaining: 593ms
128: learn: 1899.3372013 test: 1897.6033626 best: 1897.6033626 (128) total: 3.48s remaining: 566ms
129: learn: 1897.3359983 test: 1895.5792181 best: 1895.5792181 (129) total: 3.5s remaining: 539ms
130: learn: 1894.5530141 test: 1892.7893163 best: 1892.7893163 (130) total: 3.52s remaining: 511ms
131: learn: 1891.9370577 test: 1890.1494842 best: 1890.1494842 (131) total: 3.55s remaining: 484ms
132: learn: 1890.1620303 test: 1888.4932272 best: 1888.4932272 (132) total: 3.57s remaining: 457ms
133: learn: 1888.3177186 test: 1886.5996758 best: 1886.5996758 (133) total: 3.6s remaining: 429ms
134: learn: 1886.0284457 test: 1884.3932018 best: 1884.3932018 (134) total: 3.62s remaining: 402ms
135: learn: 1883.9181717 test: 1882.3530044 best: 1882.3530044 (135) total: 3.65s remaining: 375ms
136: learn: 1882.0801817 test: 1880.5181620 best: 1880.5181620 (136) total: 3.67s remaining: 348ms
137: learn: 1879.9882841 test: 1878.4258525 best: 1878.4258525 (137) total: 3.7s remaining: 321ms
138: learn: 1877.7428595 test: 1876.1846380 best: 1876.1846380 (138) total: 3.72s remaining: 295ms
139: learn: 1875.9885950 test: 1874.4427504 best: 1874.4427504 (139) total: 3.75s remaining: 268ms
140: learn: 1874.2721288 test: 1872.7193902 best: 1872.7193902 (140) total: 3.77s remaining: 241ms
141: learn: 1872.7517425 test: 1871.3617025 best: 1871.3617025 (141) total: 3.79s remaining: 214ms
142: learn: 1871.1176564 test: 1870.0431119 best: 1870.0431119 (142) total: 3.82s remaining: 187ms
143: learn: 1869.1070185 test: 1868.0065828 best: 1868.0065828 (143) total: 3.84s remaining: 160ms
144: learn: 1867.6014836 test: 1866.4845924 best: 1866.4845924 (144) total: 3.86s remaining: 133ms
145: learn: 1865.7535314 test: 1864.7174739 best: 1864.7174739 (145) total: 3.89s remaining: 107ms
146: learn: 1864.2873191 test: 1863.1984452 best: 1863.1984452 (146) total: 3.91s remaining: 79.9ms
147: learn: 1862.8031813 test: 1861.6913534 best: 1861.6913534 (147) total: 3.94s remaining: 53.2ms
148: learn: 1861.3518412 test: 1860.3776048 best: 1860.3776048 (148) total: 3.96s remaining: 26.6ms
149: learn: 1860.0771610 test: 1859.1444262 best: 1859.1444262 (149) total: 3.99s remaining: 0us

bestTest = 1859.144426

bestIteration = 149

80: loss: 1859.1444262 best: 1709.4122952 (65) total: 3m 27s remaining: 38.5s

0: learn: 6386.4907368 test: 6411.9963701 best: 6411.9963701 (0) total: 26.1ms remaining: 3.88s

1: learn: 5855.2051814 test: 5880.5311007 best: 5880.5311007 (1) total: 52.9ms remaining: 3.92s

2: learn: 5382.3746586 test: 5407.3462822 best: 5407.3462822 (2) total: 78.4ms remaining: 3.84s
3: learn: 4964.9458514 test: 4989.4562940 best: 4989.4562940 (3) total: 105ms remaining: 3.83s
4: learn: 4600.1245506 test: 4623.3901092 best: 4623.3901092 (4) total: 130ms remaining: 3.77s
5: learn: 4271.7974969 test: 4293.3856094 best: 4293.3856094 (5) total: 156ms remaining: 3.75s
6: learn: 3978.1148839 test: 3997.8835601 best: 3997.8835601 (6) total: 194ms remaining: 3.95s
7: learn: 3722.7138839 test: 3741.3433098 best: 3741.3433098 (7) total: 228ms remaining: 4.05s
8: learn: 3496.8398188 test: 3513.3481026 best: 3513.3481026 (8) total: 260ms remaining: 4.08s
9: learn: 3293.4342222 test: 3308.7678804 best: 3308.7678804 (9) total: 295ms remaining: 4.13s
10: learn: 3117.2854759 test: 3131.8548819 best: 3131.8548819 (10) total: 330ms remaining: 4.17s
11: learn: 2963.0224170 test: 2975.9637313 best: 2975.9637313 (11) total: 362ms remaining: 4.16s
12: learn: 2830.0710675 test: 2841.5017247 best: 2841.5017247 (12) total: 400ms remaining: 4.21s
13: learn: 2715.5482236 test: 2725.5425050 best: 2725.5425050 (13) total: 425ms remaining: 4.13s
14: learn: 2612.8125735 test: 2621.6008253 best: 2621.6008253 (14) total: 449ms remaining: 4.04s
15: learn: 2528.7864262 test: 2536.9840093 best: 2536.9840093 (15) total: 475ms remaining: 3.98s
16: learn: 2452.6874381 test: 2459.6859152 best: 2459.6859152 (16) total: 501ms remaining: 3.92s
17: learn: 2388.1852923 test: 2395.4223898 best: 2395.4223898 (17) total: 525ms remaining: 3.85s
18: learn: 2329.7929959 test: 2335.8968719 best: 2335.8968719 (18) total: 550ms remaining: 3.79s
19: learn: 2272.9148587 test: 2277.4276883 best: 2277.4276883 (19) total: 579ms remaining: 3.76s
20: learn: 2221.7195707 test: 2224.9617543 best: 2224.9617543 (20) total: 604ms remaining: 3.71s
21: learn: 2183.1321532 test: 2184.5456658 best: 2184.5456658 (21) total: 630ms remaining: 3.66s
22: learn: 2142.6369687 test: 2143.1245211 best: 2143.1245211 (22) total: 657ms remaining: 3.63s
23: learn: 2111.9967788 test: 2111.2648752 best: 2111.2648752 (23) total: 682ms remaining: 3.58s
24: learn: 2086.4336511 test: 2084.7557596 best: 2084.7557596 (24) total: 707ms remaining: 3.53s
25: learn: 2062.1196787 test: 2059.8737662 best: 2059.8737662 (25) total: 731ms remaining: 3.49s
26: learn: 2039.5139542 test: 2036.5882456 best: 2036.5882456 (26) total: 754ms remaining: 3.44s
27: learn: 2019.5477497 test: 2016.7811757 best: 2016.7811757 (27) total: 782ms remaining: 3.41s
28: learn: 2003.0909272 test: 2000.2601540 best: 2000.2601540 (28) total: 806ms remaining: 3.36s
29: learn: 1987.9007701 test: 1984.7180957 best: 1984.7180957 (29) total: 831ms remaining: 3.32s
30: learn: 1971.7318297 test: 1968.4050603 best: 1968.4050603 (30) total: 855ms remaining: 3.28s
31: learn: 1959.5433357 test: 1956.0250535 best: 1956.0250535 (31) total: 880ms remaining: 3.24s
32: learn: 1948.4066954 test: 1944.6304879 best: 1944.6304879 (32) total: 903ms remaining: 3.2s
33: learn: 1938.3965727 test: 1934.6378425 best: 1934.6378425 (33) total: 931ms remaining: 3.17s
34: learn: 1928.6528387 test: 1924.3535101 best: 1924.3535101 (34) total: 955ms remaining: 3.14s
35: learn: 1919.4446338 test: 1915.7017293 best: 1915.7017293 (35) total: 981ms remaining: 3.11s
36: learn: 1910.3805867 test: 1906.6628058 best: 1906.6628058 (36) total: 1s remaining: 3.06s
37: learn: 1902.6253312 test: 1898.6819360 best: 1898.6819360 (37) total: 1.03s remaining: 3.03s
38: learn: 1895.8963106 test: 1892.2166797 best: 1892.2166797 (38) total: 1.05s remaining: 2.99s
39: learn: 1889.5880305 test: 1886.4813671 best: 1886.4813671 (39) total: 1.08s remaining: 2.96s
40: learn: 1883.8415784 test: 1880.8712730 best: 1880.8712730 (40) total: 1.1s remaining: 2.93s
41: learn: 1878.4613616 test: 1875.7007876 best: 1875.7007876 (41) total: 1.12s remaining: 2.89s
42: learn: 1872.6016542 test: 1869.8810475 best: 1869.8810475 (42) total: 1.15s remaining: 2.85s
43: learn: 1867.0008422 test: 1864.8851222 best: 1864.8851222 (43) total: 1.17s remaining: 2.82s

43: learn: 1867.8293492 test: 1864.9851209 best: 1864.9851209 (43) total: 1.17s remaining: 2.82s
44: learn: 1861.2313603 test: 1859.0981682 best: 1859.0981682 (44) total: 1.19s remaining: 2.79s
45: learn: 1855.4352462 test: 1853.7281072 best: 1853.7281072 (45) total: 1.22s remaining: 2.75s
46: learn: 1850.7020260 test: 1849.3222802 best: 1849.3222802 (46) total: 1.24s remaining: 2.72s
47: learn: 1846.8415537 test: 1845.5991094 best: 1845.5991094 (47) total: 1.26s remaining: 2.69s
48: learn: 1842.3499991 test: 1841.5419681 best: 1841.5419681 (48) total: 1.29s remaining: 2.65s
49: learn: 1837.7218851 test: 1837.0761258 best: 1837.0761258 (49) total: 1.31s remaining: 2.63s
50: learn: 1834.3287158 test: 1833.4006095 best: 1833.4006095 (50) total: 1.34s remaining: 2.6s
51: learn: 1830.6034251 test: 1829.9861393 best: 1829.9861393 (51) total: 1.36s remaining: 2.57s
52: learn: 1827.8984488 test: 1827.0562604 best: 1827.0562604 (52) total: 1.39s remaining: 2.54s
53: learn: 1823.3263805 test: 1822.5054628 best: 1822.5054628 (53) total: 1.41s remaining: 2.51s
54: learn: 1819.3123790 test: 1818.7899840 best: 1818.7899840 (54) total: 1.44s remaining: 2.48s
55: learn: 1815.7013936 test: 1815.0679690 best: 1815.0679690 (55) total: 1.47s remaining: 2.46s
56: learn: 1812.0386997 test: 1812.5213171 best: 1812.5213171 (56) total: 1.49s remaining: 2.43s
57: learn: 1809.4611697 test: 1810.2823680 best: 1810.2823680 (57) total: 1.51s remaining: 2.4s
58: learn: 1806.6468257 test: 1807.4229208 best: 1807.4229208 (58) total: 1.53s remaining: 2.37s
59: learn: 1803.9504771 test: 1805.0042185 best: 1805.0042185 (59) total: 1.56s remaining: 2.34s
60: learn: 1801.2749099 test: 1802.8920271 best: 1802.8920271 (60) total: 1.58s remaining: 2.31s
61: learn: 1798.3553353 test: 1800.4166297 best: 1800.4166297 (61) total: 1.61s remaining: 2.29s
62: learn: 1795.6865485 test: 1798.0081341 best: 1798.0081341 (62) total: 1.63s remaining: 2.26s
63: learn: 1792.7396285 test: 1795.9024603 best: 1795.9024603 (63) total: 1.66s remaining: 2.23s
64: learn: 1790.4570860 test: 1793.7850243 best: 1793.7850243 (64) total: 1.69s remaining: 2.21s
65: learn: 1785.9938742 test: 1790.9481866 best: 1790.9481866 (65) total: 1.71s remaining: 2.18s
66: learn: 1783.7971046 test: 1788.9872065 best: 1788.9872065 (66) total: 1.74s remaining: 2.15s
67: learn: 1781.1546639 test: 1786.3170865 best: 1786.3170865 (67) total: 1.76s remaining: 2.12s
68: learn: 1777.6314654 test: 1783.1066338 best: 1783.1066338 (68) total: 1.78s remaining: 2.09s
69: learn: 1773.6954421 test: 1779.5654995 best: 1779.5654995 (69) total: 1.81s remaining: 2.07s
70: learn: 1771.1560503 test: 1777.0025273 best: 1777.0025273 (70) total: 1.83s remaining: 2.04s
71: learn: 1768.7276962 test: 1775.5607706 best: 1775.5607706 (71) total: 1.86s remaining: 2.01s
72: learn: 1766.0730117 test: 1773.2028752 best: 1773.2028752 (72) total: 1.88s remaining: 1.99s
73: learn: 1764.3085796 test: 1771.3376842 best: 1771.3376842 (73) total: 1.9s remaining: 1.96s
74: learn: 1762.9665005 test: 1770.1823173 best: 1770.1823173 (74) total: 1.93s remaining: 1.93s
75: learn: 1760.9210837 test: 1768.5189629 best: 1768.5189629 (75) total: 1.95s remaining: 1.9s
76: learn: 1759.6478249 test: 1767.2989662 best: 1767.2989662 (76) total: 1.98s remaining: 1.88s
77: learn: 1756.1243201 test: 1764.4139854 best: 1764.4139854 (77) total: 2s remaining: 1.85s
78: learn: 1753.9550186 test: 1762.7242592 best: 1762.7242592 (78) total: 2.03s remaining: 1.82s
79: learn: 1751.9915694 test: 1761.0753523 best: 1761.0753523 (79) total: 2.06s remaining: 1.8s
80: learn: 1750.1542263 test: 1759.5375017 best: 1759.5375017 (80) total: 2.09s remaining: 1.78s
81: learn: 1748.1481938 test: 1757.6470003 best: 1757.6470003 (81) total: 2.11s remaining: 1.75s
82: learn: 1745.2108348 test: 1754.9420408 best: 1754.9420408 (82) total: 2.13s remaining: 1.72s
83: learn: 1743.8383519 test: 1753.8528942 best: 1753.8528942 (83) total: 2.16s remaining: 1.69s
84: learn: 1742.2869061 test: 1752.3697218 best: 1752.3697218 (84) total: 2.18s remaining: 1.67s

85: learn: 1740.8936048 test: 1751.6933133 best: 1751.6933133 (85) total: 2.2s remaining: 1.64s
86: learn: 1739.2850499 test: 1750.1931346 best: 1750.1931346 (86) total: 2.23s remaining: 1.61s
87: learn: 1737.7843847 test: 1748.7334918 best: 1748.7334918 (87) total: 2.25s remaining: 1.58s
88: learn: 1736.2181967 test: 1747.2502802 best: 1747.2502802 (88) total: 2.27s remaining: 1.56s
89: learn: 1735.0205442 test: 1746.4557955 best: 1746.4557955 (89) total: 2.3s remaining: 1.53s
90: learn: 1733.0783668 test: 1744.4941055 best: 1744.4941055 (90) total: 2.32s remaining: 1.5s
91: learn: 1731.8081349 test: 1743.7152847 best: 1743.7152847 (91) total: 2.34s remaining: 1.48s
92: learn: 1730.8945929 test: 1742.9141149 best: 1742.9141149 (92) total: 2.37s remaining: 1.45s
93: learn: 1729.4868331 test: 1741.6003113 best: 1741.6003113 (93) total: 2.39s remaining: 1.43s
94: learn: 1727.3406029 test: 1739.8756925 best: 1739.8756925 (94) total: 2.42s remaining: 1.4s
95: learn: 1726.2921432 test: 1739.1758180 best: 1739.1758180 (95) total: 2.44s remaining: 1.38s
96: learn: 1723.9143081 test: 1737.5229639 best: 1737.5229639 (96) total: 2.47s remaining: 1.35s
97: learn: 1721.9186518 test: 1735.9706281 best: 1735.9706281 (97) total: 2.49s remaining: 1.32s
98: learn: 1720.5215279 test: 1735.1526626 best: 1735.1526626 (98) total: 2.52s remaining: 1.29s
99: learn: 1719.0150900 test: 1734.1082818 best: 1734.1082818 (99) total: 2.54s remaining: 1.27s
100: learn: 1717.8822613 test: 1733.1128985 best: 1733.1128985 (100) total: 2.57s remaining: 1.25s
101: learn: 1716.5053808 test: 1731.7836509 best: 1731.7836509 (101) total: 2.59s remaining: 1.22s
102: learn: 1714.1948306 test: 1729.4937459 best: 1729.4937459 (102) total: 2.62s remaining: 1.19s
103: learn: 1713.0874305 test: 1728.6118527 best: 1728.6118527 (103) total: 2.64s remaining: 1.17s
104: learn: 1712.2362612 test: 1727.8216001 best: 1727.8216001 (104) total: 2.66s remaining: 1.14s
105: learn: 1709.7157051 test: 1726.5817307 best: 1726.5817307 (105) total: 2.68s remaining: 1.11s
106: learn: 1708.6700720 test: 1725.6584797 best: 1725.6584797 (106) total: 2.71s remaining: 1.09s
107: learn: 1707.4634095 test: 1724.4851361 best: 1724.4851361 (107) total: 2.73s remaining: 1.06s
108: learn: 1706.0929874 test: 1723.9065693 best: 1723.9065693 (108) total: 2.76s remaining: 1.04s
109: learn: 1705.1423217 test: 1723.2480592 best: 1723.2480592 (109) total: 2.78s remaining: 1.01s
110: learn: 1703.6073284 test: 1721.7992883 best: 1721.7992883 (110) total: 2.8s remaining: 986ms
111: learn: 1702.7903472 test: 1720.9736385 best: 1720.9736385 (111) total: 2.83s remaining: 959ms
112: learn: 1701.1603766 test: 1719.5843239 best: 1719.5843239 (112) total: 2.85s remaining: 934ms
113: learn: 1699.7424669 test: 1718.5640282 best: 1718.5640282 (113) total: 2.87s remaining: 908ms
114: learn: 1698.6701809 test: 1717.7725175 best: 1717.7725175 (114) total: 2.9s remaining: 882ms
115: learn: 1697.4468478 test: 1716.9640428 best: 1716.9640428 (115) total: 2.92s remaining: 856ms
116: learn: 1696.0896658 test: 1715.9657558 best: 1715.9657558 (116) total: 2.94s remaining: 831ms
117: learn: 1694.7221271 test: 1714.9932310 best: 1714.9932310 (117) total: 2.97s remaining: 806ms
118: learn: 1693.4305137 test: 1714.2293415 best: 1714.2293415 (118) total: 2.99s remaining: 780ms
119: learn: 1691.2099738 test: 1712.7875820 best: 1712.7875820 (119) total: 3.02s remaining: 754ms
120: learn: 1690.0398418 test: 1711.6794615 best: 1711.6794615 (120) total: 3.04s remaining: 729ms
121: learn: 1688.6944144 test: 1710.3936844 best: 1710.3936844 (121) total: 3.07s remaining: 704ms
122: learn: 1687.3664468 test: 1709.7037760 best: 1709.7037760 (122) total: 3.09s remaining: 679ms
123: learn: 1686.6377705 test: 1709.3334301 best: 1709.3334301 (123) total: 3.12s remaining: 653ms
124: learn: 1685.5921240 test: 1708.2984266 best: 1708.2984266 (124) total: 3.14s remaining: 628ms
125: learn: 1684.1600879 test: 1707.1810845 best: 1707.1810845 (125) total: 3.17s remaining: 603ms

126: learn: 1683.0749959 test: 1706.2051123 best: 1706.2051123 (126) total: 3.19s remaining: 578ms
127: learn: 1681.8391593 test: 1705.6350862 best: 1705.6350862 (127) total: 3.21s remaining: 553ms
128: learn: 1680.5338594 test: 1704.9989090 best: 1704.9989090 (128) total: 3.24s remaining: 527ms
129: learn: 1679.4607887 test: 1704.1459193 best: 1704.1459193 (129) total: 3.26s remaining: 502ms
130: learn: 1677.9342511 test: 1703.1580838 best: 1703.1580838 (130) total: 3.29s remaining: 477ms
131: learn: 1676.7585993 test: 1702.1358445 best: 1702.1358445 (131) total: 3.31s remaining: 451ms
132: learn: 1675.2693533 test: 1701.1905441 best: 1701.1905441 (132) total: 3.34s remaining: 427ms
133: learn: 1674.0184594 test: 1700.1708170 best: 1700.1708170 (133) total: 3.37s remaining: 402ms
134: learn: 1672.7795175 test: 1699.4327842 best: 1699.4327842 (134) total: 3.39s remaining: 377ms
135: learn: 1671.4270605 test: 1698.1039955 best: 1698.1039955 (135) total: 3.42s remaining: 352ms
136: learn: 1670.1389300 test: 1697.3859495 best: 1697.3859495 (136) total: 3.45s remaining: 327ms
137: learn: 1668.6525425 test: 1696.2937553 best: 1696.2937553 (137) total: 3.47s remaining: 302ms
138: learn: 1667.6586925 test: 1695.2787866 best: 1695.2787866 (138) total: 3.49s remaining: 276ms
139: learn: 1666.8316179 test: 1694.7224494 best: 1694.7224494 (139) total: 3.51s remaining: 251ms
140: learn: 1665.8668318 test: 1693.9899811 best: 1693.9899811 (140) total: 3.54s remaining: 226ms
141: learn: 1665.0057060 test: 1693.3304417 best: 1693.3304417 (141) total: 3.56s remaining: 201ms
142: learn: 1664.1219323 test: 1692.9248697 best: 1692.9248697 (142) total: 3.59s remaining: 176ms
143: learn: 1663.1076235 test: 1692.3675861 best: 1692.3675861 (143) total: 3.61s remaining: 150ms
144: learn: 1661.2458554 test: 1690.9488950 best: 1690.9488950 (144) total: 3.64s remaining: 125ms
145: learn: 1660.2684284 test: 1689.9198799 best: 1689.9198799 (145) total: 3.67s remaining: 100ms
146: learn: 1659.2843623 test: 1689.5587005 best: 1689.5587005 (146) total: 3.69s remaining: 75.3ms
147: learn: 1658.1671261 test: 1688.9266927 best: 1688.9266927 (147) total: 3.71s remaining: 50.1ms
148: learn: 1657.2118522 test: 1688.2284695 best: 1688.2284695 (148) total: 3.73s remaining: 25.1ms
149: learn: 1656.3185325 test: 1687.5431737 best: 1687.5431737 (149) total: 3.76s remaining: 0us

bestTest = 1687.543174

bestIteration = 149

81: loss: 1687.5431737 best: 1687.5431737 (81) total: 3m 31s remaining: 36.1s
0: learn: 6802.5132113 test: 6829.8331841 best: 6829.8331841 (0) total: 27.8ms remaining: 4.14s
1: learn: 6628.5971789 test: 6655.6690697 best: 6655.6690697 (1) total: 54.1ms remaining: 4s
2: learn: 6460.0535409 test: 6487.0132608 best: 6487.0132608 (2) total: 82.4ms remaining: 4.04s
3: learn: 6298.6880104 test: 6325.9153704 best: 6325.9153704 (3) total: 108ms remaining: 3.94s
4: learn: 6142.5771726 test: 6169.4664935 best: 6169.4664935 (4) total: 133ms remaining: 3.86s
5: learn: 5990.6822079 test: 6017.4188793 best: 6017.4188793 (5) total: 160ms remaining: 3.84s
6: learn: 5843.6786600 test: 5870.4552624 best: 5870.4552624 (6) total: 188ms remaining: 3.84s
7: learn: 5702.6636008 test: 5729.1187348 best: 5729.1187348 (7) total: 215ms remaining: 3.81s
8: learn: 5565.7334838 test: 5591.8355128 best: 5591.8355128 (8) total: 243ms remaining: 3.8s
9: learn: 5432.6565485 test: 5458.4948666 best: 5458.4948666 (9) total: 273ms remaining: 3.83s
10: learn: 5303.8063615 test: 5330.0508204 best: 5330.0508204 (10) total: 301ms remaining: 3.8s
11: learn: 5179.7979665 test: 5205.8720038 best: 5205.8720038 (11) total: 328ms remaining: 3.77s

12: learn: 5061.1137978 test: 5086.9292855 best: 5086.9292855 (12) total: 355ms remaining: 3.74s
13: learn: 4944.2845852 test: 4969.8727975 best: 4969.8727975 (13) total: 385ms remaining: 3.73s
14: learn: 4831.9388682 test: 4857.0944235 best: 4857.0944235 (14) total: 411ms remaining: 3.7s
15: learn: 4724.4802651 test: 4749.4705898 best: 4749.4705898 (15) total: 439ms remaining: 3.67s
16: learn: 4619.6679141 test: 4644.0148905 best: 4644.0148905 (16) total: 469ms remaining: 3.67s
17: learn: 4518.9901907 test: 4543.0890903 best: 4543.0890903 (17) total: 495ms remaining: 3.63s
18: learn: 4421.4312967 test: 4445.1177178 best: 4445.1177178 (18) total: 524ms remaining: 3.61s
19: learn: 4325.7877041 test: 4349.3110736 best: 4349.3110736 (19) total: 551ms remaining: 3.58s
20: learn: 4233.9258462 test: 4256.9879280 best: 4256.9879280 (20) total: 578ms remaining: 3.55s
21: learn: 4146.4015179 test: 4169.0473297 best: 4169.0473297 (21) total: 613ms remaining: 3.56s
22: learn: 4062.0951059 test: 4084.3788405 best: 4084.3788405 (22) total: 641ms remaining: 3.54s
23: learn: 3979.8153299 test: 4001.8852832 best: 4001.8852832 (23) total: 669ms remaining: 3.51s
24: learn: 3901.9992598 test: 3923.4364775 best: 3923.4364775 (24) total: 699ms remaining: 3.49s
25: learn: 3827.1514478 test: 3848.0587288 best: 3848.0587288 (25) total: 729ms remaining: 3.48s
26: learn: 3755.3107164 test: 3775.9867610 best: 3775.9867610 (26) total: 754ms remaining: 3.44s
27: learn: 3684.6779889 test: 3704.9658167 best: 3704.9658167 (27) total: 783ms remaining: 3.41s
28: learn: 3617.2349854 test: 3637.2726285 best: 3637.2726285 (28) total: 811ms remaining: 3.38s
29: learn: 3552.1677084 test: 3571.8970443 best: 3571.8970443 (29) total: 836ms remaining: 3.34s
30: learn: 3490.2472304 test: 3509.6791875 best: 3509.6791875 (30) total: 861ms remaining: 3.31s
31: learn: 3430.1106575 test: 3449.0855181 best: 3449.0855181 (31) total: 888ms remaining: 3.27s
32: learn: 3370.4838588 test: 3389.0073567 best: 3389.0073567 (32) total: 913ms remaining: 3.24s
33: learn: 3313.5344688 test: 3331.8122047 best: 3331.8122047 (33) total: 940ms remaining: 3.21s
34: learn: 3257.8244236 test: 3275.6019467 best: 3275.6019467 (34) total: 972ms remaining: 3.19s
35: learn: 3204.5413232 test: 3221.9883839 best: 3221.9883839 (35) total: 997ms remaining: 3.16s
36: learn: 3153.1793649 test: 3170.2216561 best: 3170.2216561 (36) total: 1.02s remaining: 3.13s
37: learn: 3103.7655057 test: 3120.6180961 best: 3120.6180961 (37) total: 1.05s remaining: 3.1s
38: learn: 3057.2418999 test: 3073.6743387 best: 3073.6743387 (38) total: 1.07s remaining: 3.06s
39: learn: 3012.9026286 test: 3028.8591843 best: 3028.8591843 (39) total: 1.1s remaining: 3.03s
40: learn: 2970.5039435 test: 2986.0804785 best: 2986.0804785 (40) total: 1.13s remaining: 3s
41: learn: 2929.5343827 test: 2944.4208955 best: 2944.4208955 (41) total: 1.16s remaining: 2.97s
42: learn: 2890.4491205 test: 2905.1001098 best: 2905.1001098 (42) total: 1.18s remaining: 2.95s
43: learn: 2851.7133896 test: 2865.7954706 best: 2865.7954706 (43) total: 1.21s remaining: 2.91s
44: learn: 2815.4251563 test: 2829.0800728 best: 2829.0800728 (44) total: 1.23s remaining: 2.88s
45: learn: 2780.1070637 test: 2793.2766900 best: 2793.2766900 (45) total: 1.26s remaining: 2.85s
46: learn: 2746.4935662 test: 2759.2880824 best: 2759.2880824 (46) total: 1.29s remaining: 2.82s
47: learn: 2713.4298949 test: 2725.8764157 best: 2725.8764157 (47) total: 1.31s remaining: 2.79s
48: learn: 2682.8802393 test: 2694.9480855 best: 2694.9480855 (48) total: 1.34s remaining: 2.75s
49: learn: 2652.9209043 test: 2664.8429635 best: 2664.8429635 (49) total: 1.37s remaining: 2.73s
50: learn: 2624.0712260 test: 2635.5494526 best: 2635.5494526 (50) total: 1.39s remaining: 2.7s
51: learn: 2597.2043138 test: 2608.5530367 best: 2608.5530367 (51) total: 1.42s remaining: 2.67s
52: learn: 2571.8364589 test: 2582.7242024 best: 2582.7242024 (52) total: 1.44s remaining: 2.64s
53: learn: 2545.8720191 test: 2556.2888182 best: 2556.2888182 (53) total: 1.47s remaining: 2.61s

53: learn: 2545.8739191 test: 2556.3888182 best: 2556.3888182 (53) total: 1.47s remaining: 2.61s
54: learn: 2521.6785233 test: 2531.8262507 best: 2531.8262507 (54) total: 1.49s remaining: 2.58s
55: learn: 2498.8226089 test: 2508.6510865 best: 2508.6510865 (55) total: 1.52s remaining: 2.55s
56: learn: 2476.5458037 test: 2485.9340481 best: 2485.9340481 (56) total: 1.54s remaining: 2.52s
57: learn: 2454.2480447 test: 2463.3365753 best: 2463.3365753 (57) total: 1.57s remaining: 2.49s
58: learn: 2432.9855428 test: 2441.5554230 best: 2441.5554230 (58) total: 1.6s remaining: 2.46s
59: learn: 2413.4188743 test: 2421.4930491 best: 2421.4930491 (59) total: 1.62s remaining: 2.43s
60: learn: 2394.4898324 test: 2402.1995405 best: 2402.1995405 (60) total: 1.65s remaining: 2.4s
61: learn: 2375.2290836 test: 2382.5492615 best: 2382.5492615 (61) total: 1.67s remaining: 2.37s
62: learn: 2357.8675889 test: 2364.9731434 best: 2364.9731434 (62) total: 1.7s remaining: 2.35s
63: learn: 2337.9656102 test: 2344.8089020 best: 2344.8089020 (63) total: 1.73s remaining: 2.32s
64: learn: 2319.8821030 test: 2326.4718965 best: 2326.4718965 (64) total: 1.75s remaining: 2.29s
65: learn: 2304.6688336 test: 2311.0730243 best: 2311.0730243 (65) total: 1.78s remaining: 2.27s
66: learn: 2289.6279604 test: 2295.6662972 best: 2295.6662972 (66) total: 1.81s remaining: 2.24s
67: learn: 2274.3174869 test: 2280.0701789 best: 2280.0701789 (67) total: 1.83s remaining: 2.21s
68: learn: 2258.7613104 test: 2264.3003682 best: 2264.3003682 (68) total: 1.86s remaining: 2.18s
69: learn: 2245.2811749 test: 2250.5371950 best: 2250.5371950 (69) total: 1.88s remaining: 2.15s
70: learn: 2233.1741066 test: 2238.2112675 best: 2238.2112675 (70) total: 1.91s remaining: 2.12s
71: learn: 2219.7584236 test: 2224.2725887 best: 2224.2725887 (71) total: 1.93s remaining: 2.09s
72: learn: 2208.1160820 test: 2212.2826234 best: 2212.2826234 (72) total: 1.96s remaining: 2.07s
73: learn: 2197.1915028 test: 2201.1777905 best: 2201.1777905 (73) total: 1.98s remaining: 2.04s
74: learn: 2185.5784468 test: 2189.2739926 best: 2189.2739926 (74) total: 2.01s remaining: 2.01s
75: learn: 2173.7838847 test: 2177.2556261 best: 2177.2556261 (75) total: 2.03s remaining: 1.98s
76: learn: 2163.2976249 test: 2166.5221547 best: 2166.5221547 (76) total: 2.06s remaining: 1.95s
77: learn: 2153.7210082 test: 2156.7752985 best: 2156.7752985 (77) total: 2.08s remaining: 1.92s
78: learn: 2144.0614781 test: 2146.7823339 best: 2146.7823339 (78) total: 2.1s remaining: 1.89s
79: learn: 2133.0678056 test: 2135.6045016 best: 2135.6045016 (79) total: 2.13s remaining: 1.86s
80: learn: 2124.3788012 test: 2126.7369499 best: 2126.7369499 (80) total: 2.15s remaining: 1.83s
81: learn: 2115.7895303 test: 2118.0569084 best: 2118.0569084 (81) total: 2.18s remaining: 1.81s
82: learn: 2106.2436713 test: 2108.4069307 best: 2108.4069307 (82) total: 2.21s remaining: 1.78s
83: learn: 2098.3425413 test: 2100.3789717 best: 2100.3789717 (83) total: 2.23s remaining: 1.75s
84: learn: 2090.8699842 test: 2092.7217217 best: 2092.7217217 (84) total: 2.25s remaining: 1.72s
85: learn: 2083.3756566 test: 2085.0639161 best: 2085.0639161 (85) total: 2.28s remaining: 1.7s
86: learn: 2074.4530802 test: 2075.8802419 best: 2075.8802419 (86) total: 2.3s remaining: 1.67s
87: learn: 2067.5986740 test: 2068.7829797 best: 2068.7829797 (87) total: 2.33s remaining: 1.64s
88: learn: 2059.6044522 test: 2060.7875778 best: 2060.7875778 (88) total: 2.35s remaining: 1.61s
89: learn: 2052.3493585 test: 2053.3535859 best: 2053.3535859 (89) total: 2.38s remaining: 1.58s
90: learn: 2046.3488635 test: 2047.2038982 best: 2047.2038982 (90) total: 2.4s remaining: 1.56s
91: learn: 2040.3513359 test: 2041.0951814 best: 2041.0951814 (91) total: 2.43s remaining: 1.53s
92: learn: 2034.9041755 test: 2035.6087834 best: 2035.6087834 (92) total: 2.46s remaining: 1.5s
93: learn: 2028.2450947 test: 2028.8310497 best: 2028.8310497 (93) total: 2.48s remaining: 1.48s
94: learn: 2023.1050182 test: 2023.4531959 best: 2023.4531959 (94) total: 2.51s remaining: 1.45s

95: learn: 2016.7110722 test: 2016.8754524 best: 2016.8754524 (95) total: 2.53s remaining: 1.43s
96: learn: 2011.6634107 test: 2011.5284292 best: 2011.5284292 (96) total: 2.56s remaining: 1.4s
97: learn: 2006.3775515 test: 2006.4331085 best: 2006.4331085 (97) total: 2.58s remaining: 1.37s
98: learn: 2001.3037075 test: 2001.2900135 best: 2001.2900135 (98) total: 2.61s remaining: 1.34s
99: learn: 1996.6450421 test: 1996.4879632 best: 1996.4879632 (99) total: 2.63s remaining: 1.32s
100: learn: 1991.9916718 test: 1991.7392669 best: 1991.7392669 (100) total: 2.66s remaining: 1.29s
101: learn: 1987.0376952 test: 1986.5993359 best: 1986.5993359 (101) total: 2.69s remaining: 1.26s
102: learn: 1982.0845766 test: 1981.4287928 best: 1981.4287928 (102) total: 2.71s remaining: 1.24s
103: learn: 1976.8901203 test: 1976.1418234 best: 1976.1418234 (103) total: 2.74s remaining: 1.21s
104: learn: 1972.0445027 test: 1971.2330468 best: 1971.2330468 (104) total: 2.76s remaining: 1.18s
105: learn: 1967.7356714 test: 1966.8543970 best: 1966.8543970 (105) total: 2.79s remaining: 1.16s
106: learn: 1964.1032640 test: 1963.0793010 best: 1963.0793010 (106) total: 2.81s remaining: 1.13s
107: learn: 1960.4457210 test: 1959.3317943 best: 1959.3317943 (107) total: 2.83s remaining: 1.1s
108: learn: 1956.9358453 test: 1955.8038613 best: 1955.8038613 (108) total: 2.86s remaining: 1.07s
109: learn: 1952.9365586 test: 1951.7870427 best: 1951.7870427 (109) total: 2.88s remaining: 1.05s
110: learn: 1949.2337995 test: 1947.7713595 best: 1947.7713595 (110) total: 2.91s remaining: 1.02s
111: learn: 1946.0177019 test: 1944.3585462 best: 1944.3585462 (111) total: 2.93s remaining: 994ms
112: learn: 1942.2682534 test: 1940.5825859 best: 1940.5825859 (112) total: 2.96s remaining: 968ms
113: learn: 1938.5233960 test: 1936.8788390 best: 1936.8788390 (113) total: 2.98s remaining: 941ms
114: learn: 1935.1719909 test: 1933.4682789 best: 1933.4682789 (114) total: 3s remaining: 914ms
115: learn: 1931.7310143 test: 1929.8916324 best: 1929.8916324 (115) total: 3.03s remaining: 887ms
116: learn: 1928.6067578 test: 1926.7542313 best: 1926.7542313 (116) total: 3.05s remaining: 861ms
117: learn: 1925.5142607 test: 1923.6799615 best: 1923.6799615 (117) total: 3.08s remaining: 835ms
118: learn: 1922.1302400 test: 1920.5787987 best: 1920.5787987 (118) total: 3.1s remaining: 808ms
119: learn: 1919.3835085 test: 1917.7186877 best: 1917.7186877 (119) total: 3.12s remaining: 781ms
120: learn: 1916.9353846 test: 1915.3670539 best: 1915.3670539 (120) total: 3.15s remaining: 754ms
121: learn: 1914.6628743 test: 1913.1415148 best: 1913.1415148 (121) total: 3.17s remaining: 727ms
122: learn: 1912.2418474 test: 1910.7498226 best: 1910.7498226 (122) total: 3.19s remaining: 700ms
123: learn: 1909.7897098 test: 1908.3603636 best: 1908.3603636 (123) total: 3.21s remaining: 673ms
124: learn: 1907.3658137 test: 1905.7624751 best: 1905.7624751 (124) total: 3.24s remaining: 647ms
125: learn: 1904.9363912 test: 1903.1503170 best: 1903.1503170 (125) total: 3.27s remaining: 622ms
126: learn: 1902.9236453 test: 1901.0927512 best: 1901.0927512 (126) total: 3.3s remaining: 597ms
127: learn: 1900.7555433 test: 1898.8985381 best: 1898.8985381 (127) total: 3.32s remaining: 571ms
128: learn: 1898.0826387 test: 1896.3995386 best: 1896.3995386 (128) total: 3.35s remaining: 545ms
129: learn: 1895.9159358 test: 1894.1551184 best: 1894.1551184 (129) total: 3.37s remaining: 518ms
130: learn: 1893.9063620 test: 1892.0517545 best: 1892.0517545 (130) total: 3.39s remaining: 492ms
131: learn: 1891.7658089 test: 1889.9791443 best: 1889.9791443 (131) total: 3.42s remaining: 466ms
132: learn: 1889.9742107 test: 1888.2483767 best: 1888.2483767 (132) total: 3.44s remaining: 439ms
133: learn: 1888.1030272 test: 1886.3406804 best: 1886.3406804 (133) total: 3.46s remaining: 414ms
134: learn: 1885.8718411 test: 1884.2059700 best: 1884.2059700 (134) total: 3.49s remaining: 387ms
135: learn: 1883.7890984 test: 1882.2879224 best: 1882.2879224 (135) total: 3.51s remaining: 361ms

136: learn: 1881.5956565 test: 1880.0551320 best: 1880.0551320 (136) total: 3.54s remaining: 336ms
137: learn: 1879.6002729 test: 1878.1050113 best: 1878.1050113 (137) total: 3.57s remaining: 310ms
138: learn: 1877.5965753 test: 1876.1932322 best: 1876.1932322 (138) total: 3.59s remaining: 284ms
139: learn: 1876.0434038 test: 1874.6719284 best: 1874.6719284 (139) total: 3.62s remaining: 258ms
140: learn: 1874.1803025 test: 1872.7659651 best: 1872.7659651 (140) total: 3.64s remaining: 232ms
141: learn: 1872.6145186 test: 1871.3569335 best: 1871.3569335 (141) total: 3.66s remaining: 206ms
142: learn: 1870.8987981 test: 1869.7242115 best: 1869.7242115 (142) total: 3.69s remaining: 181ms
143: learn: 1869.1596456 test: 1868.0815474 best: 1868.0815474 (143) total: 3.71s remaining: 155ms
144: learn: 1867.6157483 test: 1866.5953392 best: 1866.5953392 (144) total: 3.74s remaining: 129ms
145: learn: 1865.7903370 test: 1864.8550488 best: 1864.8550488 (145) total: 3.76s remaining: 103ms
146: learn: 1864.0220995 test: 1863.3560572 best: 1863.3560572 (146) total: 3.78s remaining: 77.2ms
147: learn: 1862.5243682 test: 1861.7191496 best: 1861.7191496 (147) total: 3.81s remaining: 51.4ms
148: learn: 1861.1843807 test: 1860.4562973 best: 1860.4562973 (148) total: 3.83s remaining: 25.7ms
149: learn: 1859.9446961 test: 1859.2417466 best: 1859.2417466 (149) total: 3.86s remaining: 0us

bestTest = 1859.241747

bestIteration = 149

82: loss: 1859.2417466 best: 1687.5431737 (81) total: 3m 35s remaining: 33.8s
0: learn: 6386.6495154 test: 6412.1554999 best: 6412.1554999 (0) total: 26.7ms remaining: 3.98s
1: learn: 5855.4837816 test: 5880.8076659 best: 5880.8076659 (1) total: 52ms remaining: 3.85s
2: learn: 5382.7115081 test: 5407.6829749 best: 5407.6829749 (2) total: 76.8ms remaining: 3.77s
3: learn: 4962.9454821 test: 4987.4914970 best: 4987.4914970 (3) total: 104ms remaining: 3.8s
4: learn: 4598.5509574 test: 4621.8497555 best: 4621.8497555 (4) total: 129ms remaining: 3.74s
5: learn: 4270.5720637 test: 4292.1863251 best: 4292.1863251 (5) total: 156ms remaining: 3.74s
6: learn: 3978.1572467 test: 3998.3301795 best: 3998.3301795 (6) total: 184ms remaining: 3.77s
7: learn: 3715.6893109 test: 3734.5731301 best: 3734.5731301 (7) total: 209ms remaining: 3.71s
8: learn: 3490.2399990 test: 3507.0648423 best: 3507.0648423 (8) total: 238ms remaining: 3.72s
9: learn: 3293.2543851 test: 3309.3256555 best: 3309.3256555 (9) total: 263ms remaining: 3.67s
10: learn: 3117.4686159 test: 3132.8939683 best: 3132.8939683 (10) total: 287ms remaining: 3.63s
11: learn: 2961.5537400 test: 2975.7564172 best: 2975.7564172 (11) total: 310ms remaining: 3.57s
12: learn: 2829.3929255 test: 2841.7574486 best: 2841.7574486 (12) total: 336ms remaining: 3.54s
13: learn: 2714.6004025 test: 2725.0684793 best: 2725.0684793 (13) total: 361ms remaining: 3.51s
14: learn: 2613.6815545 test: 2622.7685989 best: 2622.7685989 (14) total: 389ms remaining: 3.5s
15: learn: 2525.9500103 test: 2534.7813837 best: 2534.7813837 (15) total: 414ms remaining: 3.47s
16: learn: 2451.3248172 test: 2459.2407700 best: 2459.2407700 (16) total: 441ms remaining: 3.45s
17: learn: 2384.8273045 test: 2391.1395344 best: 2391.1395344 (17) total: 465ms remaining: 3.41s
18: learn: 2326.2856440 test: 2331.7888203 best: 2331.7888203 (18) total: 492ms remaining: 3.39s
19: learn: 2273.3423767 test: 2278.2197821 best: 2278.2197821 (19) total: 520ms remaining: 3.38s
20: learn: 2223.0355720 test: 2227.1236726 best: 2227.1236726 (20) total: 551ms remaining: 3.39s
21: learn: 2184.0722833 test: 2187.4378730 best: 2187.4378730 (21) total: 585ms remaining: 3.4s

22: learn: 2149.4944784 test: 2152.0620947 best: 2152.0620947 (22) total: 616ms remaining: 3.4s
23: learn: 2119.3998160 test: 2121.5717732 best: 2121.5717732 (23) total: 644ms remaining: 3.38s
24: learn: 2093.1687967 test: 2094.3983163 best: 2094.3983163 (24) total: 673ms remaining: 3.36s
25: learn: 2063.1916664 test: 2063.6864348 best: 2063.6864348 (25) total: 699ms remaining: 3.33s
26: learn: 2039.4709626 test: 2040.0124519 best: 2040.0124519 (26) total: 725ms remaining: 3.3s
27: learn: 2020.7868224 test: 2021.6384334 best: 2021.6384334 (27) total: 752ms remaining: 3.28s
28: learn: 2003.2387191 test: 2003.5660683 best: 2003.5660683 (28) total: 777ms remaining: 3.24s
29: learn: 1987.3663984 test: 1987.0985391 best: 1987.0985391 (29) total: 801ms remaining: 3.2s
30: learn: 1970.3711013 test: 1969.8635170 best: 1969.8635170 (30) total: 825ms remaining: 3.17s
31: learn: 1958.3210469 test: 1957.4308378 best: 1957.4308378 (31) total: 849ms remaining: 3.13s
32: learn: 1945.3361900 test: 1944.4093531 best: 1944.4093531 (32) total: 882ms remaining: 3.13s
33: learn: 1935.8701145 test: 1935.0912876 best: 1935.0912876 (33) total: 907ms remaining: 3.1s
34: learn: 1926.0877612 test: 1924.8255502 best: 1924.8255502 (34) total: 931ms remaining: 3.06s
35: learn: 1917.7635789 test: 1916.6066459 best: 1916.6066459 (35) total: 955ms remaining: 3.02s
36: learn: 1907.1628785 test: 1907.1498902 best: 1907.1498902 (36) total: 981ms remaining: 3s
37: learn: 1899.5083167 test: 1899.9413224 best: 1899.9413224 (37) total: 1.01s remaining: 2.97s
38: learn: 1892.1627113 test: 1892.7038378 best: 1892.7038378 (38) total: 1.03s remaining: 2.93s
39: learn: 1886.2183948 test: 1887.4853289 best: 1887.4853289 (39) total: 1.05s remaining: 2.89s
40: learn: 1880.5736661 test: 1882.0395766 best: 1882.0395766 (40) total: 1.08s remaining: 2.87s
41: learn: 1873.0133305 test: 1875.1367000 best: 1875.1367000 (41) total: 1.11s remaining: 2.85s
42: learn: 1866.9055323 test: 1869.0018957 best: 1869.0018957 (42) total: 1.13s remaining: 2.82s
43: learn: 1861.7180286 test: 1863.4197105 best: 1863.4197105 (43) total: 1.16s remaining: 2.79s
44: learn: 1856.9901139 test: 1858.6458746 best: 1858.6458746 (44) total: 1.18s remaining: 2.76s
45: learn: 1851.5232960 test: 1853.3507260 best: 1853.3507260 (45) total: 1.21s remaining: 2.73s
46: learn: 1846.7337739 test: 1849.1222623 best: 1849.1222623 (46) total: 1.23s remaining: 2.7s
47: learn: 1843.0756055 test: 1846.0741619 best: 1846.0741619 (47) total: 1.25s remaining: 2.67s
48: learn: 1838.8796680 test: 1842.0200938 best: 1842.0200938 (48) total: 1.28s remaining: 2.64s
49: learn: 1834.6005464 test: 1838.1314781 best: 1838.1314781 (49) total: 1.31s remaining: 2.61s
50: learn: 1831.3568826 test: 1834.7754366 best: 1834.7754366 (50) total: 1.33s remaining: 2.58s
51: learn: 1827.6510046 test: 1830.9151790 best: 1830.9151790 (51) total: 1.35s remaining: 2.55s
52: learn: 1823.7946940 test: 1827.2516007 best: 1827.2516007 (52) total: 1.38s remaining: 2.52s
53: learn: 1819.9201654 test: 1823.4956865 best: 1823.4956865 (53) total: 1.4s remaining: 2.49s
54: learn: 1814.9885694 test: 1818.7769773 best: 1818.7769773 (54) total: 1.43s remaining: 2.46s
55: learn: 1811.5132353 test: 1816.2776573 best: 1816.2776573 (55) total: 1.45s remaining: 2.43s
56: learn: 1809.1238142 test: 1813.7551145 best: 1813.7551145 (56) total: 1.48s remaining: 2.41s
57: learn: 1804.8648452 test: 1809.6443087 best: 1809.6443087 (57) total: 1.5s remaining: 2.38s
58: learn: 1802.3354034 test: 1807.2035621 best: 1807.2035621 (58) total: 1.52s remaining: 2.35s
59: learn: 1799.9054144 test: 1804.9516190 best: 1804.9516190 (59) total: 1.55s remaining: 2.32s
60: learn: 1796.9209790 test: 1802.0922535 best: 1802.0922535 (60) total: 1.57s remaining: 2.29s
61: learn: 1793.7308679 test: 1798.9372122 best: 1798.9372122 (61) total: 1.6s remaining: 2.27s
62: learn: 1791.1598672 test: 1796.5057108 best: 1796.5057108 (62) total: 1.62s remaining: 2.24s
63: learn: 1786.9236068 test: 1792.7356909 best: 1792.7356909 (63) total: 1.65s remaining: 2.22s

63: learn: 1780.3230000 test: 1792.7330000 best: 1782.7330000 (63) total: 1.63s remaining: 2.22s
64: learn: 1784.3150327 test: 1790.4305729 best: 1790.4305729 (64) total: 1.68s remaining: 2.2s
65: learn: 1781.8041771 test: 1788.0814998 best: 1788.0814998 (65) total: 1.71s remaining: 2.17s
66: learn: 1779.6877910 test: 1786.4492795 best: 1786.4492795 (66) total: 1.73s remaining: 2.14s
67: learn: 1777.6592534 test: 1784.6036538 best: 1784.6036538 (67) total: 1.75s remaining: 2.12s
68: learn: 1775.8739395 test: 1783.2620276 best: 1783.2620276 (68) total: 1.78s remaining: 2.09s
69: learn: 1773.1629278 test: 1780.7036669 best: 1780.7036669 (69) total: 1.8s remaining: 2.06s
70: learn: 1771.2290272 test: 1779.2562945 best: 1779.2562945 (70) total: 1.83s remaining: 2.03s
71: learn: 1767.8453583 test: 1776.3369212 best: 1776.3369212 (71) total: 1.85s remaining: 2.01s
72: learn: 1766.2621379 test: 1775.1204223 best: 1775.1204223 (72) total: 1.87s remaining: 1.98s
73: learn: 1764.4631076 test: 1773.6079538 best: 1773.6079538 (73) total: 1.9s remaining: 1.95s
74: learn: 1762.7792194 test: 1772.0481928 best: 1772.0481928 (74) total: 1.93s remaining: 1.93s
75: learn: 1761.3949196 test: 1770.8980533 best: 1770.8980533 (75) total: 1.95s remaining: 1.9s
76: learn: 1759.5927776 test: 1769.4512899 best: 1769.4512899 (76) total: 1.98s remaining: 1.87s
77: learn: 1756.7994100 test: 1766.6886504 best: 1766.6886504 (77) total: 2s remaining: 1.84s
78: learn: 1754.5045641 test: 1764.3925775 best: 1764.3925775 (78) total: 2.02s remaining: 1.82s
79: learn: 1753.0895384 test: 1763.4297581 best: 1763.4297581 (79) total: 2.04s remaining: 1.79s
80: learn: 1751.4122342 test: 1762.0949757 best: 1762.0949757 (80) total: 2.07s remaining: 1.76s
81: learn: 1749.6396683 test: 1760.5924755 best: 1760.5924755 (81) total: 2.09s remaining: 1.74s
82: learn: 1747.8251775 test: 1758.9083790 best: 1758.9083790 (82) total: 2.12s remaining: 1.71s
83: learn: 1746.6164523 test: 1757.9298859 best: 1757.9298859 (83) total: 2.14s remaining: 1.68s
84: learn: 1744.9216749 test: 1756.4943492 best: 1756.4943492 (84) total: 2.17s remaining: 1.66s
85: learn: 1741.7758671 test: 1754.0586201 best: 1754.0586201 (85) total: 2.19s remaining: 1.63s
86: learn: 1740.2164225 test: 1752.7819603 best: 1752.7819603 (86) total: 2.22s remaining: 1.6s
87: learn: 1738.9741325 test: 1751.5595159 best: 1751.5595159 (87) total: 2.24s remaining: 1.58s
88: learn: 1737.5250044 test: 1750.2789519 best: 1750.2789519 (88) total: 2.27s remaining: 1.55s
89: learn: 1735.9964819 test: 1749.4771409 best: 1749.4771409 (89) total: 2.29s remaining: 1.52s
90: learn: 1733.7928531 test: 1747.5185331 best: 1747.5185331 (90) total: 2.31s remaining: 1.5s
91: learn: 1732.2592254 test: 1746.2650928 best: 1746.2650928 (91) total: 2.34s remaining: 1.47s
92: learn: 1731.3647595 test: 1745.6020370 best: 1745.6020370 (92) total: 2.36s remaining: 1.45s
93: learn: 1728.6717044 test: 1743.5515152 best: 1743.5515152 (93) total: 2.38s remaining: 1.42s
94: learn: 1727.1921697 test: 1742.0680197 best: 1742.0680197 (94) total: 2.41s remaining: 1.39s
95: learn: 1725.3585171 test: 1740.8376684 best: 1740.8376684 (95) total: 2.43s remaining: 1.37s
96: learn: 1723.8195705 test: 1740.0946318 best: 1740.0946318 (96) total: 2.46s remaining: 1.34s
97: learn: 1722.1465166 test: 1738.7795928 best: 1738.7795928 (97) total: 2.49s remaining: 1.32s
98: learn: 1721.0258280 test: 1737.8403362 best: 1737.8403362 (98) total: 2.52s remaining: 1.3s
99: learn: 1719.2206026 test: 1736.3758050 best: 1736.3758050 (99) total: 2.55s remaining: 1.28s
100: learn: 1717.8491258 test: 1735.1988517 best: 1735.1988517 (100) total: 2.59s remaining: 1.26s
101: learn: 1716.5045723 test: 1734.0104746 best: 1734.0104746 (101) total: 2.62s remaining: 1.23s
102: learn: 1714.8906465 test: 1732.9814595 best: 1732.9814595 (102) total: 2.65s remaining: 1.21s
103: learn: 1713.6683992 test: 1731.8647666 best: 1731.8647666 (103) total: 2.69s remaining: 1.19s
104: learn: 1712.6366305 test: 1731.0564710 best: 1731.0564710 (104) total: 2.72s remaining: 1.16s

105: learn: 1711.0223076 test: 1729.8739881 best: 1729.8739881 (105) total: 2.74s remaining: 1.14s
106: learn: 1709.7353744 test: 1728.7723384 best: 1728.7723384 (106) total: 2.77s remaining: 1.11s
107: learn: 1708.5683237 test: 1727.8892373 best: 1727.8892373 (107) total: 2.79s remaining: 1.08s
108: learn: 1707.2748214 test: 1726.8874284 best: 1726.8874284 (108) total: 2.82s remaining: 1.06s
109: learn: 1706.2418057 test: 1726.0938087 best: 1726.0938087 (109) total: 2.84s remaining: 1.03s
110: learn: 1704.2388462 test: 1724.9843908 best: 1724.9843908 (110) total: 2.87s remaining: 1.01s
111: learn: 1703.1511353 test: 1724.3132220 best: 1724.3132220 (111) total: 2.89s remaining: 981ms
112: learn: 1702.2173803 test: 1723.4835621 best: 1723.4835621 (112) total: 2.91s remaining: 954ms
113: learn: 1700.5299106 test: 1722.5444825 best: 1722.5444825 (113) total: 2.94s remaining: 929ms
114: learn: 1699.5091534 test: 1721.7035825 best: 1721.7035825 (114) total: 2.96s remaining: 903ms
115: learn: 1697.4349487 test: 1720.1534637 best: 1720.1534637 (115) total: 2.99s remaining: 876ms
116: learn: 1695.8659374 test: 1718.9935452 best: 1718.9935452 (116) total: 3.01s remaining: 850ms
117: learn: 1694.6308363 test: 1717.9631698 best: 1717.9631698 (117) total: 3.04s remaining: 824ms
118: learn: 1693.0730066 test: 1716.5405208 best: 1716.5405208 (118) total: 3.07s remaining: 799ms
119: learn: 1691.3396882 test: 1715.2070381 best: 1715.2070381 (119) total: 3.09s remaining: 773ms
120: learn: 1689.9868356 test: 1714.6118439 best: 1714.6118439 (120) total: 3.12s remaining: 747ms
121: learn: 1688.5315179 test: 1713.1971376 best: 1713.1971376 (121) total: 3.14s remaining: 721ms
122: learn: 1686.5545307 test: 1711.5169969 best: 1711.5169969 (122) total: 3.17s remaining: 695ms
123: learn: 1685.2756846 test: 1710.7138781 best: 1710.7138781 (123) total: 3.19s remaining: 669ms
124: learn: 1684.0173926 test: 1709.8963362 best: 1709.8963362 (124) total: 3.21s remaining: 643ms
125: learn: 1683.3680958 test: 1709.2282495 best: 1709.2282495 (125) total: 3.24s remaining: 617ms
126: learn: 1682.4237325 test: 1708.3309519 best: 1708.3309519 (126) total: 3.26s remaining: 591ms
127: learn: 1681.1679761 test: 1707.9582435 best: 1707.9582435 (127) total: 3.29s remaining: 565ms
128: learn: 1679.5215873 test: 1706.2817751 best: 1706.2817751 (128) total: 3.31s remaining: 539ms
129: learn: 1678.2147248 test: 1705.4829505 best: 1705.4829505 (129) total: 3.34s remaining: 513ms
130: learn: 1676.7001161 test: 1704.3212240 best: 1704.3212240 (130) total: 3.36s remaining: 487ms
131: learn: 1675.8036707 test: 1703.5729197 best: 1703.5729197 (131) total: 3.38s remaining: 461ms
132: learn: 1674.4139975 test: 1702.7578401 best: 1702.7578401 (132) total: 3.41s remaining: 435ms
133: learn: 1672.9554331 test: 1701.4904885 best: 1701.4904885 (133) total: 3.43s remaining: 410ms
134: learn: 1671.6923028 test: 1700.7676185 best: 1700.7676185 (134) total: 3.46s remaining: 384ms
135: learn: 1670.7440687 test: 1700.7872427 best: 1700.7872427 (134) total: 3.48s remaining: 359ms
136: learn: 1669.8761795 test: 1700.0969582 best: 1700.0969582 (136) total: 3.51s remaining: 333ms
137: learn: 1668.4873007 test: 1699.3933353 best: 1699.3933353 (137) total: 3.53s remaining: 307ms
138: learn: 1667.4867974 test: 1698.4505124 best: 1698.4505124 (138) total: 3.56s remaining: 281ms
139: learn: 1666.2675572 test: 1697.7942641 best: 1697.7942641 (139) total: 3.58s remaining: 256ms
140: learn: 1665.2744481 test: 1697.3226500 best: 1697.3226500 (140) total: 3.6s remaining: 230ms
141: learn: 1664.0594972 test: 1696.5158016 best: 1696.5158016 (141) total: 3.63s remaining: 204ms
142: learn: 1662.9295390 test: 1695.5151017 best: 1695.5151017 (142) total: 3.66s remaining: 179ms
143: learn: 1661.7986348 test: 1694.3283321 best: 1694.3283321 (143) total: 3.69s remaining: 154ms
144: learn: 1660.5103271 test: 1693.1974524 best: 1693.1974524 (144) total: 3.71s remaining: 128ms
145: learn: 1659.7313925 test: 1692.5803968 best: 1692.5803968 (145) total: 3.73s remaining: 102ms

146: learn: 1658.4066653 test: 1691.6452302 best: 1691.6452302 (146) total: 3.76s remaining: 76.7ms
147: learn: 1657.0577376 test: 1690.8904547 best: 1690.8904547 (147) total: 3.78s remaining: 51.1ms
148: learn: 1656.2458785 test: 1690.1953554 best: 1690.1953554 (148) total: 3.81s remaining: 25.6ms
149: learn: 1655.2603799 test: 1689.5669118 best: 1689.5669118 (149) total: 3.83s remaining: 0us

bestTest = 1689.566912

bestIteration = 149

83: loss: 1689.5669118 best: 1687.5431737 (81) total: 3m 39s remaining: 31.3s
0: learn: 6802.5918811 test: 6829.9108526 best: 6829.9108526 (0) total: 28ms remaining: 4.17s
1: learn: 6628.7468639 test: 6655.8166309 best: 6655.8166309 (1) total: 54.1ms remaining: 4s
2: learn: 6460.2582612 test: 6487.2169906 best: 6487.2169906 (2) total: 81ms remaining: 3.97s
3: learn: 6298.9243131 test: 6326.1487171 best: 6326.1487171 (3) total: 109ms remaining: 3.99s
4: learn: 6142.8888466 test: 6169.7690372 best: 6169.7690372 (4) total: 136ms remaining: 3.96s
5: learn: 5991.0731020 test: 6017.8023736 best: 6017.8023736 (5) total: 164ms remaining: 3.93s
6: learn: 5844.1359247 test: 5870.8909394 best: 5870.8909394 (6) total: 192ms remaining: 3.92s
7: learn: 5703.1399553 test: 5729.5733989 best: 5729.5733989 (7) total: 221ms remaining: 3.92s
8: learn: 5566.2552258 test: 5592.3375006 best: 5592.3375006 (8) total: 246ms remaining: 3.85s
9: learn: 5433.2307515 test: 5459.0455567 best: 5459.0455567 (9) total: 271ms remaining: 3.8s
10: learn: 5304.4098089 test: 5330.6293590 best: 5330.6293590 (10) total: 296ms remaining: 3.74s
11: learn: 5180.4373925 test: 5206.4906440 best: 5206.4906440 (11) total: 325ms remaining: 3.74s
12: learn: 5061.8239550 test: 5087.6061765 best: 5087.6061765 (12) total: 352ms remaining: 3.71s
13: learn: 4945.0660134 test: 4970.6145555 best: 4970.6145555 (13) total: 378ms remaining: 3.67s
14: learn: 4832.7593653 test: 4857.8754156 best: 4857.8754156 (14) total: 410ms remaining: 3.69s
15: learn: 4725.3057846 test: 4750.2579761 best: 4750.2579761 (15) total: 435ms remaining: 3.64s
16: learn: 4620.5351246 test: 4644.8371360 best: 4644.8371360 (16) total: 459ms remaining: 3.59s
17: learn: 4519.8615579 test: 4543.9142849 best: 4543.9142849 (17) total: 485ms remaining: 3.56s
18: learn: 4422.3137934 test: 4445.9530433 best: 4445.9530433 (18) total: 514ms remaining: 3.55s
19: learn: 4326.6676510 test: 4350.1444828 best: 4350.1444828 (19) total: 539ms remaining: 3.51s
20: learn: 4234.8264350 test: 4257.8334638 best: 4257.8334638 (20) total: 571ms remaining: 3.51s
21: learn: 4146.9452665 test: 4169.5846288 best: 4169.5846288 (21) total: 595ms remaining: 3.46s
22: learn: 4063.3812524 test: 4085.7648963 best: 4085.7648963 (22) total: 622ms remaining: 3.43s
23: learn: 3981.8428593 test: 4003.5638575 best: 4003.5638575 (23) total: 648ms remaining: 3.4s
24: learn: 3904.0238347 test: 3925.1113817 best: 3925.1113817 (24) total: 675ms remaining: 3.38s
25: learn: 3828.5998418 test: 3849.2434118 best: 3849.2434118 (25) total: 703ms remaining: 3.35s
26: learn: 3756.7364643 test: 3777.1457933 best: 3777.1457933 (26) total: 728ms remaining: 3.31s
27: learn: 3686.2348743 test: 3706.2576015 best: 3706.2576015 (27) total: 754ms remaining: 3.28s
28: learn: 3617.7568045 test: 3637.2888107 best: 3637.2888107 (28) total: 780ms remaining: 3.25s
29: learn: 3552.6488831 test: 3571.8671234 best: 3571.8671234 (29) total: 805ms remaining: 3.22s
30: learn: 3490.7651364 test: 3509.6984351 best: 3509.6984351 (30) total: 832ms remaining: 3.19s
31: learn: 3430.4174360 test: 3448.8872777 best: 3448.8872777 (31) total: 860ms remaining: 3.17s

32: learn: 3371.1026982 test: 3389.1200301 best: 3389.1200301 (32) total: 888ms remaining: 3.15s
33: learn: 3314.2348965 test: 3332.0114240 best: 3332.0114240 (33) total: 921ms remaining: 3.14s
34: learn: 3258.9752936 test: 3276.5777176 best: 3276.5777176 (34) total: 946ms remaining: 3.11s
35: learn: 3206.2464247 test: 3223.4979570 best: 3223.4979570 (35) total: 973ms remaining: 3.08s
36: learn: 3155.1407002 test: 3171.8545646 best: 3171.8545646 (36) total: 1s remaining: 3.06s
37: learn: 3105.8546295 test: 3122.3793878 best: 3122.3793878 (37) total: 1.03s remaining: 3.02s
38: learn: 3059.4311448 test: 3075.6236138 best: 3075.6236138 (38) total: 1.05s remaining: 2.99s
39: learn: 3015.2351931 test: 3030.9362595 best: 3030.9362595 (39) total: 1.07s remaining: 2.96s
40: learn: 2973.0616413 test: 2988.2880242 best: 2988.2880242 (40) total: 1.1s remaining: 2.94s
41: learn: 2931.8258526 test: 2946.4567250 best: 2946.4567250 (41) total: 1.14s remaining: 2.93s
42: learn: 2892.4666172 test: 2906.8720812 best: 2906.8720812 (42) total: 1.17s remaining: 2.9s
43: learn: 2854.0911058 test: 2868.0552772 best: 2868.0552772 (43) total: 1.19s remaining: 2.87s
44: learn: 2817.8226585 test: 2831.2362828 best: 2831.2362828 (44) total: 1.22s remaining: 2.84s
45: learn: 2782.8501062 test: 2795.7306661 best: 2795.7306661 (45) total: 1.24s remaining: 2.81s
46: learn: 2748.2555339 test: 2760.9277817 best: 2760.9277817 (46) total: 1.27s remaining: 2.78s
47: learn: 2715.3560172 test: 2727.6845292 best: 2727.6845292 (47) total: 1.29s remaining: 2.75s
48: learn: 2683.6757592 test: 2695.6492173 best: 2695.6492173 (48) total: 1.32s remaining: 2.72s
49: learn: 2654.4686117 test: 2666.2842789 best: 2666.2842789 (49) total: 1.34s remaining: 2.69s
50: learn: 2625.6750178 test: 2636.8653488 best: 2636.8653488 (50) total: 1.37s remaining: 2.66s
51: learn: 2598.7775931 test: 2609.9867157 best: 2609.9867157 (51) total: 1.4s remaining: 2.63s
52: learn: 2573.2763485 test: 2583.9737555 best: 2583.9737555 (52) total: 1.42s remaining: 2.6s
53: learn: 2547.7970983 test: 2557.9225548 best: 2557.9225548 (53) total: 1.44s remaining: 2.57s
54: learn: 2523.7525182 test: 2533.4156552 best: 2533.4156552 (54) total: 1.47s remaining: 2.54s
55: learn: 2500.9065081 test: 2510.4140528 best: 2510.4140528 (55) total: 1.49s remaining: 2.51s
56: learn: 2478.6578707 test: 2487.7052320 best: 2487.7052320 (56) total: 1.52s remaining: 2.48s
57: learn: 2456.5622886 test: 2465.3064941 best: 2465.3064941 (57) total: 1.54s remaining: 2.45s
58: learn: 2436.2852373 test: 2445.0614980 best: 2445.0614980 (58) total: 1.57s remaining: 2.42s
59: learn: 2416.5319886 test: 2424.7975573 best: 2424.7975573 (59) total: 1.6s remaining: 2.39s
60: learn: 2397.3452525 test: 2405.2131311 best: 2405.2131311 (60) total: 1.62s remaining: 2.36s
61: learn: 2378.6725524 test: 2386.1606720 best: 2386.1606720 (61) total: 1.65s remaining: 2.34s
62: learn: 2358.9580879 test: 2366.3047389 best: 2366.3047389 (62) total: 1.69s remaining: 2.33s
63: learn: 2339.3131615 test: 2346.3878484 best: 2346.3878484 (63) total: 1.72s remaining: 2.31s
64: learn: 2321.4742979 test: 2328.2824406 best: 2328.2824406 (64) total: 1.74s remaining: 2.28s
65: learn: 2305.9965651 test: 2312.5125232 best: 2312.5125232 (65) total: 1.76s remaining: 2.25s
66: learn: 2290.7163044 test: 2296.8903459 best: 2296.8903459 (66) total: 1.79s remaining: 2.22s
67: learn: 2276.4458595 test: 2282.3774860 best: 2282.3774860 (67) total: 1.82s remaining: 2.19s
68: learn: 2263.0322648 test: 2268.7377394 best: 2268.7377394 (68) total: 1.84s remaining: 2.16s
69: learn: 2249.7672117 test: 2255.1871704 best: 2255.1871704 (69) total: 1.87s remaining: 2.13s
70: learn: 2235.2114576 test: 2240.3506374 best: 2240.3506374 (70) total: 1.89s remaining: 2.1s
71: learn: 2222.7299048 test: 2227.5609437 best: 2227.5609437 (71) total: 1.92s remaining: 2.08s
72: learn: 2211.0542255 test: 2215.4710311 best: 2215.4710311 (72) total: 1.94s remaining: 2.05s
73: learn: 2197.7066404 test: 2201.8764347 best: 2201.8764347 (73) total: 1.97s remaining: 2.02s

74: learn: 2185.9824629 test: 2189.8599386 best: 2189.8599386 (74) total: 1.99s remaining: 1.99s
75: learn: 2175.2508297 test: 2178.8293981 best: 2178.8293981 (75) total: 2.02s remaining: 1.97s
76: learn: 2164.4695361 test: 2167.7637119 best: 2167.7637119 (76) total: 2.04s remaining: 1.94s
77: learn: 2155.0147539 test: 2157.9482759 best: 2157.9482759 (77) total: 2.06s remaining: 1.91s
78: learn: 2144.8666580 test: 2147.4590999 best: 2147.4590999 (78) total: 2.09s remaining: 1.88s
79: learn: 2134.3004876 test: 2136.8335627 best: 2136.8335627 (79) total: 2.12s remaining: 1.85s
80: learn: 2125.5078831 test: 2127.9579329 best: 2127.9579329 (80) total: 2.14s remaining: 1.82s
81: learn: 2116.4206886 test: 2118.7833950 best: 2118.7833950 (81) total: 2.17s remaining: 1.8s
82: learn: 2108.3517251 test: 2110.5844083 best: 2110.5844083 (82) total: 2.2s remaining: 1.78s
83: learn: 2100.4855265 test: 2102.4915191 best: 2102.4915191 (83) total: 2.23s remaining: 1.75s
84: learn: 2093.0120308 test: 2094.8892457 best: 2094.8892457 (84) total: 2.25s remaining: 1.72s
85: learn: 2085.2739088 test: 2086.8862980 best: 2086.8862980 (85) total: 2.28s remaining: 1.69s
86: learn: 2076.3574898 test: 2077.7552885 best: 2077.7552885 (86) total: 2.3s remaining: 1.67s
87: learn: 2069.6200383 test: 2070.9737254 best: 2070.9737254 (87) total: 2.33s remaining: 1.64s
88: learn: 2061.6819833 test: 2063.0193677 best: 2063.0193677 (88) total: 2.35s remaining: 1.61s
89: learn: 2054.4478760 test: 2055.5098058 best: 2055.5098058 (89) total: 2.38s remaining: 1.58s
90: learn: 2047.8926818 test: 2048.7527985 best: 2048.7527985 (90) total: 2.4s remaining: 1.56s
91: learn: 2041.7732598 test: 2042.5922935 best: 2042.5922935 (91) total: 2.42s remaining: 1.53s
92: learn: 2036.1474943 test: 2036.9063661 best: 2036.9063661 (92) total: 2.45s remaining: 1.5s
93: learn: 2029.4215707 test: 2030.0395571 best: 2030.0395571 (93) total: 2.47s remaining: 1.47s
94: learn: 2024.3956550 test: 2024.7963404 best: 2024.7963404 (94) total: 2.5s remaining: 1.45s
95: learn: 2017.9421419 test: 2018.1916558 best: 2018.1916558 (95) total: 2.52s remaining: 1.42s
96: learn: 2012.8269453 test: 2012.6894154 best: 2012.6894154 (96) total: 2.55s remaining: 1.39s
97: learn: 2007.2813278 test: 2007.1118230 best: 2007.1118230 (97) total: 2.57s remaining: 1.36s
98: learn: 2002.6315536 test: 2002.1790922 best: 2002.1790922 (98) total: 2.6s remaining: 1.34s
99: learn: 1997.7126355 test: 1997.0783682 best: 1997.0783682 (99) total: 2.63s remaining: 1.31s
100: learn: 1992.6020164 test: 1991.9851769 best: 1991.9851769 (100) total: 2.65s remaining: 1.29s
101: learn: 1987.2297377 test: 1986.4314037 best: 1986.4314037 (101) total: 2.68s remaining: 1.26s
102: learn: 1983.1932880 test: 1982.2507216 best: 1982.2507216 (102) total: 2.7s remaining: 1.23s
103: learn: 1979.0785142 test: 1978.0595598 best: 1978.0595598 (103) total: 2.73s remaining: 1.21s
104: learn: 1974.1117261 test: 1973.0232011 best: 1973.0232011 (104) total: 2.75s remaining: 1.18s
105: learn: 1970.1769645 test: 1969.0819652 best: 1969.0819652 (105) total: 2.78s remaining: 1.15s
106: learn: 1966.5075151 test: 1965.2612140 best: 1965.2612140 (106) total: 2.81s remaining: 1.13s
107: learn: 1962.9364927 test: 1961.5771431 best: 1961.5771431 (107) total: 2.85s remaining: 1.11s
108: learn: 1959.4686723 test: 1957.8947824 best: 1957.8947824 (108) total: 2.88s remaining: 1.08s
109: learn: 1955.2176413 test: 1953.6292105 best: 1953.6292105 (109) total: 2.92s remaining: 1.06s
110: learn: 1951.3938739 test: 1949.5118340 best: 1949.5118340 (110) total: 2.95s remaining: 1.04s
111: learn: 1948.0810899 test: 1945.9931636 best: 1945.9931636 (111) total: 2.97s remaining: 1.01s
112: learn: 1944.6666717 test: 1942.5641207 best: 1942.5641207 (112) total: 3s remaining: 983ms
113: learn: 1940.7706804 test: 1938.7408399 best: 1938.7408399 (113) total: 3.03s remaining: 956ms
114: learn: 1937.6648288 test: 1935.5345752 best: 1935.5345752 (114) total: 3.05s remaining: 929ms

115: learn: 1933.9745086 test: 1931.8595333 best: 1931.8595333 (115) total: 3.08s remaining: 903ms
116: learn: 1931.1586516 test: 1928.8633887 best: 1928.8633887 (116) total: 3.1s remaining: 875ms
117: learn: 1928.4272410 test: 1925.9793559 best: 1925.9793559 (117) total: 3.13s remaining: 848ms
118: learn: 1925.3452035 test: 1922.8484773 best: 1922.8484773 (118) total: 3.15s remaining: 821ms
119: learn: 1922.6630765 test: 1920.0484080 best: 1920.0484080 (119) total: 3.18s remaining: 795ms
120: learn: 1920.2348089 test: 1917.5549919 best: 1917.5549919 (120) total: 3.21s remaining: 768ms
121: learn: 1917.9250250 test: 1915.2504469 best: 1915.2504469 (121) total: 3.23s remaining: 742ms
122: learn: 1915.5415889 test: 1912.8946709 best: 1912.8946709 (122) total: 3.25s remaining: 714ms
123: learn: 1912.9494039 test: 1910.3011832 best: 1910.3011832 (123) total: 3.28s remaining: 688ms
124: learn: 1910.5871297 test: 1907.8147290 best: 1907.8147290 (124) total: 3.31s remaining: 662ms
125: learn: 1908.2340696 test: 1905.4158985 best: 1905.4158985 (125) total: 3.33s remaining: 635ms
126: learn: 1905.9949921 test: 1903.1130388 best: 1903.1130388 (126) total: 3.36s remaining: 608ms
127: learn: 1903.8382367 test: 1900.9764492 best: 1900.9764492 (127) total: 3.38s remaining: 581ms
128: learn: 1901.1783639 test: 1898.5548596 best: 1898.5548596 (128) total: 3.41s remaining: 555ms
129: learn: 1899.0511660 test: 1896.3134129 best: 1896.3134129 (129) total: 3.43s remaining: 528ms
130: learn: 1896.2290824 test: 1893.5497408 best: 1893.5497408 (130) total: 3.46s remaining: 502ms
131: learn: 1894.0235294 test: 1891.3116466 best: 1891.3116466 (131) total: 3.49s remaining: 476ms
132: learn: 1892.1577572 test: 1889.4356886 best: 1889.4356886 (132) total: 3.51s remaining: 449ms
133: learn: 1890.2589828 test: 1887.4975298 best: 1887.4975298 (133) total: 3.54s remaining: 423ms
134: learn: 1888.0040620 test: 1885.3189108 best: 1885.3189108 (134) total: 3.57s remaining: 397ms
135: learn: 1885.9113171 test: 1883.2158597 best: 1883.2158597 (135) total: 3.6s remaining: 370ms
136: learn: 1883.8118971 test: 1881.1602537 best: 1881.1602537 (136) total: 3.62s remaining: 344ms
137: learn: 1881.7006247 test: 1879.0432127 best: 1879.0432127 (137) total: 3.65s remaining: 317ms
138: learn: 1879.5984022 test: 1876.9211452 best: 1876.9211452 (138) total: 3.67s remaining: 291ms
139: learn: 1877.6686514 test: 1874.9540755 best: 1874.9540755 (139) total: 3.7s remaining: 264ms
140: learn: 1875.9200816 test: 1873.2291057 best: 1873.2291057 (140) total: 3.73s remaining: 238ms
141: learn: 1874.4147580 test: 1871.9247016 best: 1871.9247016 (141) total: 3.75s remaining: 211ms
142: learn: 1872.8043225 test: 1870.2027571 best: 1870.2027571 (142) total: 3.78s remaining: 185ms
143: learn: 1871.1992891 test: 1868.5627127 best: 1868.5627127 (143) total: 3.81s remaining: 159ms
144: learn: 1869.7098103 test: 1867.0480516 best: 1867.0480516 (144) total: 3.84s remaining: 132ms
145: learn: 1868.2924976 test: 1865.6739730 best: 1865.6739730 (145) total: 3.86s remaining: 106ms
146: learn: 1866.6382148 test: 1864.0855071 best: 1864.0855071 (146) total: 3.89s remaining: 79.4ms
147: learn: 1865.2357191 test: 1862.7773400 best: 1862.7773400 (147) total: 3.91s remaining: 52.9ms
148: learn: 1863.9425916 test: 1861.4846599 best: 1861.4846599 (148) total: 3.94s remaining: 26.4ms
149: learn: 1862.6621757 test: 1860.1742607 best: 1860.1742607 (149) total: 3.96s remaining: 0us

bestTest = 1860.174261

bestIteration = 149

84: loss: 1860.1742607 best: 1687.5431737 (81) total: 3m 43s remaining: 28.9s

0: learn: 6386.9090228 test: 6412.4120624 best: 6412.4120624 (0) total: 28.5ms remaining: 4.25s

1: learn: 5855.9433588 test: 5881.2606591 best: 5881.2606591 (1) total: 55.2ms remaining: 4.08s
2: learn: 5383.2691000 test: 5408.2374155 best: 5408.2374155 (2) total: 81.5ms remaining: 3.99s
3: learn: 4963.5525879 test: 4988.0977310 best: 4988.0977310 (3) total: 112ms remaining: 4.1s
4: learn: 4599.3066538 test: 4622.6051126 best: 4622.6051126 (4) total: 139ms remaining: 4.02s
5: learn: 4271.4456627 test: 4293.0535190 best: 4293.0535190 (5) total: 165ms remaining: 3.95s
6: learn: 3979.0802968 test: 3999.2342416 best: 3999.2342416 (6) total: 189ms remaining: 3.87s
7: learn: 3716.6355816 test: 3735.4902411 best: 3735.4902411 (7) total: 216ms remaining: 3.83s
8: learn: 3491.3127883 test: 3508.0893179 best: 3508.0893179 (8) total: 246ms remaining: 3.85s
9: learn: 3294.2915596 test: 3310.3125656 best: 3310.3125656 (9) total: 272ms remaining: 3.8s
10: learn: 3118.5092900 test: 3133.8695082 best: 3133.8695082 (10) total: 297ms remaining: 3.75s
11: learn: 2962.5356230 test: 2976.6732100 best: 2976.6732100 (11) total: 336ms remaining: 3.86s
12: learn: 2830.4589872 test: 2842.7364600 best: 2842.7364600 (12) total: 367ms remaining: 3.87s
13: learn: 2715.6651954 test: 2726.0269626 best: 2726.0269626 (13) total: 402ms remaining: 3.91s
14: learn: 2614.6973353 test: 2623.6735836 best: 2623.6735836 (14) total: 439ms remaining: 3.95s
15: learn: 2526.9134533 test: 2535.6301382 best: 2535.6301382 (15) total: 472ms remaining: 3.95s
16: learn: 2452.3674213 test: 2460.1058163 best: 2460.1058163 (16) total: 503ms remaining: 3.94s
17: learn: 2385.8110326 test: 2391.9427251 best: 2391.9427251 (17) total: 527ms remaining: 3.87s
18: learn: 2327.4500217 test: 2332.8351979 best: 2332.8351979 (18) total: 551ms remaining: 3.8s
19: learn: 2276.3457446 test: 2281.2404668 best: 2281.2404668 (19) total: 576ms remaining: 3.74s
20: learn: 2223.6695331 test: 2227.1967205 best: 2227.1967205 (20) total: 603ms remaining: 3.7s
21: learn: 2183.8785106 test: 2186.2863408 best: 2186.2863408 (21) total: 626ms remaining: 3.64s
22: learn: 2143.0096266 test: 2144.6255627 best: 2144.6255627 (22) total: 652ms remaining: 3.6s
23: learn: 2112.7918423 test: 2114.0421107 best: 2114.0421107 (23) total: 678ms remaining: 3.56s
24: learn: 2088.4368364 test: 2088.6980540 best: 2088.6980540 (24) total: 707ms remaining: 3.53s
25: learn: 2067.4856452 test: 2067.1992692 best: 2067.1992692 (25) total: 731ms remaining: 3.49s
26: learn: 2042.7979500 test: 2041.8245827 best: 2041.8245827 (26) total: 760ms remaining: 3.46s
27: learn: 2019.6650524 test: 2018.7673412 best: 2018.7673412 (27) total: 795ms remaining: 3.46s
28: learn: 2001.3973529 test: 2000.4760205 best: 2000.4760205 (28) total: 828ms remaining: 3.46s
29: learn: 1985.0447863 test: 1983.5773202 best: 1983.5773202 (29) total: 861ms remaining: 3.44s
30: learn: 1971.9256695 test: 1969.4726748 best: 1969.4726748 (30) total: 889ms remaining: 3.41s
31: learn: 1957.7006176 test: 1954.8692121 best: 1954.8692121 (31) total: 926ms remaining: 3.41s
32: learn: 1947.0389020 test: 1943.7141962 best: 1943.7141962 (32) total: 956ms remaining: 3.39s
33: learn: 1936.5569235 test: 1933.3941094 best: 1933.3941094 (33) total: 981ms remaining: 3.35s
34: learn: 1927.0591923 test: 1923.8135809 best: 1923.8135809 (34) total: 1.01s remaining: 3.31s
35: learn: 1918.5497535 test: 1915.6034313 best: 1915.6034313 (35) total: 1.03s remaining: 3.26s
36: learn: 1908.6669100 test: 1905.5085922 best: 1905.5085922 (36) total: 1.05s remaining: 3.22s
37: learn: 1901.5140948 test: 1898.6525517 best: 1898.6525517 (37) total: 1.08s remaining: 3.18s
38: learn: 1895.0484581 test: 1892.1156457 best: 1892.1156457 (38) total: 1.1s remaining: 3.14s
39: learn: 1887.9846555 test: 1885.3155542 best: 1885.3155542 (39) total: 1.13s remaining: 3.1s
40: learn: 1879.9839507 test: 1877.2602560 best: 1877.2602560 (40) total: 1.15s remaining: 3.07s
41: learn: 1874.5689910 test: 1871.9778892 best: 1871.9778892 (41) total: 1.18s remaining: 3.03s
42: learn: 1868.2265744 test: 1867.6121272 best: 1867.6121272 (42) total: 1.2s remaining: 3.0s

42: learn: 1868.2607511 test: 1865.6121656 best: 1865.6121656 (42) total: 1.2s remaining: 3s
43: learn: 1864.0656988 test: 1861.7716973 best: 1861.7716973 (43) total: 1.23s remaining: 2.96s
44: learn: 1859.5347528 test: 1857.2602505 best: 1857.2602505 (44) total: 1.25s remaining: 2.92s
45: learn: 1855.0412019 test: 1853.2721657 best: 1853.2721657 (45) total: 1.28s remaining: 2.89s
46: learn: 1850.6852047 test: 1849.0914111 best: 1849.0914111 (46) total: 1.3s remaining: 2.85s
47: learn: 1845.5015676 test: 1843.9860751 best: 1843.9860751 (47) total: 1.32s remaining: 2.82s
48: learn: 1842.0467927 test: 1841.2284582 best: 1841.2284582 (48) total: 1.35s remaining: 2.78s
49: learn: 1837.5166362 test: 1837.2583384 best: 1837.2583384 (49) total: 1.37s remaining: 2.75s
50: learn: 1834.4429112 test: 1834.3769155 best: 1834.3769155 (50) total: 1.4s remaining: 2.72s
51: learn: 1830.9785374 test: 1830.7060260 best: 1830.7060260 (51) total: 1.42s remaining: 2.68s
52: learn: 1828.1739429 test: 1828.3026717 best: 1828.3026717 (52) total: 1.44s remaining: 2.64s
53: learn: 1823.9395888 test: 1824.2238097 best: 1824.2238097 (53) total: 1.47s remaining: 2.61s
54: learn: 1820.8571873 test: 1821.5756078 best: 1821.5756078 (54) total: 1.49s remaining: 2.58s
55: learn: 1816.5652043 test: 1817.6213625 best: 1817.6213625 (55) total: 1.52s remaining: 2.55s
56: learn: 1813.5201800 test: 1814.8531684 best: 1814.8531684 (56) total: 1.54s remaining: 2.52s
57: learn: 1808.8884579 test: 1811.1227536 best: 1811.1227536 (57) total: 1.57s remaining: 2.48s
58: learn: 1806.5568535 test: 1808.7888680 best: 1808.7888680 (58) total: 1.59s remaining: 2.45s
59: learn: 1804.2146234 test: 1806.5030333 best: 1806.5030333 (59) total: 1.62s remaining: 2.43s
60: learn: 1801.6894973 test: 1804.1271128 best: 1804.1271128 (60) total: 1.64s remaining: 2.4s
61: learn: 1798.2108085 test: 1800.7771997 best: 1800.7771997 (61) total: 1.67s remaining: 2.37s
62: learn: 1794.5050009 test: 1797.2189146 best: 1797.2189146 (62) total: 1.69s remaining: 2.34s
63: learn: 1791.2522392 test: 1795.1755211 best: 1795.1755211 (63) total: 1.72s remaining: 2.31s
64: learn: 1789.0790933 test: 1793.4257664 best: 1793.4257664 (64) total: 1.74s remaining: 2.27s
65: learn: 1785.9007533 test: 1790.4872138 best: 1790.4872138 (65) total: 1.76s remaining: 2.24s
66: learn: 1783.9500190 test: 1788.5383518 best: 1788.5383518 (66) total: 1.78s remaining: 2.21s
67: learn: 1781.8498842 test: 1786.6087777 best: 1786.6087777 (67) total: 1.81s remaining: 2.19s
68: learn: 1779.7987330 test: 1784.6891623 best: 1784.6891623 (68) total: 1.84s remaining: 2.15s
69: learn: 1777.7513902 test: 1782.7546127 best: 1782.7546127 (69) total: 1.86s remaining: 2.13s
70: learn: 1776.1087417 test: 1781.2094736 best: 1781.2094736 (70) total: 1.88s remaining: 2.1s
71: learn: 1774.4588983 test: 1779.7135543 best: 1779.7135543 (71) total: 1.91s remaining: 2.07s
72: learn: 1772.3691450 test: 1778.0302220 best: 1778.0302220 (72) total: 1.93s remaining: 2.04s
73: learn: 1770.7158112 test: 1776.3181155 best: 1776.3181155 (73) total: 1.95s remaining: 2.01s
74: learn: 1768.9943633 test: 1774.7307949 best: 1774.7307949 (74) total: 1.98s remaining: 1.98s
75: learn: 1767.3016107 test: 1773.4744611 best: 1773.4744611 (75) total: 2s remaining: 1.95s
76: learn: 1764.7612634 test: 1771.2645478 best: 1771.2645478 (76) total: 2.03s remaining: 1.92s
77: learn: 1763.0120031 test: 1769.9483839 best: 1769.9483839 (77) total: 2.05s remaining: 1.9s
78: learn: 1760.5545675 test: 1767.8860175 best: 1767.8860175 (78) total: 2.08s remaining: 1.87s
79: learn: 1758.8505289 test: 1766.3931916 best: 1766.3931916 (79) total: 2.1s remaining: 1.84s
80: learn: 1756.4332294 test: 1764.3866711 best: 1764.3866711 (80) total: 2.12s remaining: 1.81s
81: learn: 1754.1431814 test: 1762.2622021 best: 1762.2622021 (81) total: 2.15s remaining: 1.78s
82: learn: 1753.1514077 test: 1761.3142654 best: 1761.3142654 (82) total: 2.17s remaining: 1.75s
83: learn: 1751.8242688 test: 1760.2542043 best: 1760.2542043 (83) total: 2.2s remaining: 1.73s

84: learn: 1749.9930999 test: 1758.5774202 best: 1758.5774202 (84) total: 2.22s remaining: 1.7s
85: learn: 1748.2149748 test: 1757.5883173 best: 1757.5883173 (85) total: 2.25s remaining: 1.67s
86: learn: 1746.9999362 test: 1756.5327882 best: 1756.5327882 (86) total: 2.27s remaining: 1.64s
87: learn: 1745.5399919 test: 1755.2727659 best: 1755.2727659 (87) total: 2.3s remaining: 1.62s
88: learn: 1743.6533297 test: 1753.7851563 best: 1753.7851563 (88) total: 2.32s remaining: 1.59s
89: learn: 1742.4742423 test: 1752.6897233 best: 1752.6897233 (89) total: 2.35s remaining: 1.57s
90: learn: 1740.9614243 test: 1751.9656025 best: 1751.9656025 (90) total: 2.37s remaining: 1.54s
91: learn: 1739.8407232 test: 1751.3966557 best: 1751.3966557 (91) total: 2.4s remaining: 1.51s
92: learn: 1738.8814283 test: 1750.4417863 best: 1750.4417863 (92) total: 2.42s remaining: 1.48s
93: learn: 1737.2126100 test: 1749.0000931 best: 1749.0000931 (93) total: 2.44s remaining: 1.46s
94: learn: 1735.3657628 test: 1747.8530099 best: 1747.8530099 (94) total: 2.47s remaining: 1.43s
95: learn: 1734.1687215 test: 1747.2371457 best: 1747.2371457 (95) total: 2.49s remaining: 1.4s
96: learn: 1732.0310771 test: 1746.0054986 best: 1746.0054986 (96) total: 2.51s remaining: 1.37s
97: learn: 1730.5129582 test: 1744.6607647 best: 1744.6607647 (97) total: 2.54s remaining: 1.35s
98: learn: 1729.3112057 test: 1743.6512924 best: 1743.6512924 (98) total: 2.56s remaining: 1.32s
99: learn: 1727.9461024 test: 1742.6081300 best: 1742.6081300 (99) total: 2.58s remaining: 1.29s
100: learn: 1726.4750066 test: 1741.3394748 best: 1741.3394748 (100) total: 2.61s remaining: 1.27s
101: learn: 1724.9101659 test: 1739.7433311 best: 1739.7433311 (101) total: 2.64s remaining: 1.24s
102: learn: 1722.5938376 test: 1737.6935877 best: 1737.6935877 (102) total: 2.67s remaining: 1.22s
103: learn: 1721.2958407 test: 1736.5986124 best: 1736.5986124 (103) total: 2.69s remaining: 1.19s
104: learn: 1719.3797469 test: 1735.1242096 best: 1735.1242096 (104) total: 2.72s remaining: 1.17s
105: learn: 1718.1824401 test: 1734.0527187 best: 1734.0527187 (105) total: 2.75s remaining: 1.14s
106: learn: 1716.6385845 test: 1732.4576615 best: 1732.4576615 (106) total: 2.77s remaining: 1.11s
107: learn: 1715.6471447 test: 1731.7001176 best: 1731.7001176 (107) total: 2.79s remaining: 1.09s
108: learn: 1713.6047425 test: 1730.6764152 best: 1730.6764152 (108) total: 2.82s remaining: 1.06s
109: learn: 1712.7513220 test: 1729.9765740 best: 1729.9765740 (109) total: 2.84s remaining: 1.03s
110: learn: 1710.9212750 test: 1728.1516374 best: 1728.1516374 (110) total: 2.86s remaining: 1.01s
111: learn: 1708.5467002 test: 1726.3559580 best: 1726.3559580 (111) total: 2.89s remaining: 981ms
112: learn: 1707.0982980 test: 1725.4613387 best: 1725.4613387 (112) total: 2.92s remaining: 955ms
113: learn: 1705.5536138 test: 1724.4130024 best: 1724.4130024 (113) total: 2.94s remaining: 928ms
114: learn: 1704.2480819 test: 1723.4330774 best: 1723.4330774 (114) total: 2.96s remaining: 902ms
115: learn: 1703.1453890 test: 1722.4595941 best: 1722.4595941 (115) total: 2.99s remaining: 876ms
116: learn: 1701.4648667 test: 1720.8735805 best: 1720.8735805 (116) total: 3.01s remaining: 850ms
117: learn: 1700.4385612 test: 1720.0722819 best: 1720.0722819 (117) total: 3.04s remaining: 823ms
118: learn: 1698.6236735 test: 1718.9113028 best: 1718.9113028 (118) total: 3.06s remaining: 797ms
119: learn: 1697.2325712 test: 1717.7964607 best: 1717.7964607 (119) total: 3.09s remaining: 773ms
120: learn: 1695.7493247 test: 1716.9986790 best: 1716.9986790 (120) total: 3.12s remaining: 747ms
121: learn: 1694.2738344 test: 1716.2296655 best: 1716.2296655 (121) total: 3.14s remaining: 721ms
122: learn: 1693.2318471 test: 1715.4297917 best: 1715.4297917 (122) total: 3.17s remaining: 695ms
123: learn: 1691.6823554 test: 1714.4391422 best: 1714.4391422 (123) total: 3.19s remaining: 669ms
124: learn: 1689.7381969 test: 1712.8913439 best: 1712.8913439 (124) total: 3.22s remaining: 644ms

125: learn: 1688.6656967 test: 1712.2589492 best: 1712.2589492 (125) total: 3.24s remaining: 618ms
126: learn: 1687.1219551 test: 1711.2652338 best: 1711.2652338 (126) total: 3.27s remaining: 591ms
127: learn: 1685.9578666 test: 1710.1308993 best: 1710.1308993 (127) total: 3.29s remaining: 566ms
128: learn: 1684.6979303 test: 1708.8881985 best: 1708.8881985 (128) total: 3.32s remaining: 540ms
129: learn: 1683.5355471 test: 1707.8212182 best: 1707.8212182 (129) total: 3.34s remaining: 514ms
130: learn: 1682.3401930 test: 1706.7772852 best: 1706.7772852 (130) total: 3.36s remaining: 488ms
131: learn: 1681.2010995 test: 1706.0504028 best: 1706.0504028 (131) total: 3.39s remaining: 462ms
132: learn: 1679.6678459 test: 1704.9254102 best: 1704.9254102 (132) total: 3.41s remaining: 436ms
133: learn: 1677.9172293 test: 1703.8675267 best: 1703.8675267 (133) total: 3.44s remaining: 411ms
134: learn: 1676.8521570 test: 1703.2062231 best: 1703.2062231 (134) total: 3.46s remaining: 385ms
135: learn: 1675.8004734 test: 1702.7989101 best: 1702.7989101 (135) total: 3.49s remaining: 359ms
136: learn: 1674.6523675 test: 1701.9439012 best: 1701.9439012 (136) total: 3.51s remaining: 333ms
137: learn: 1673.5603147 test: 1701.1781333 best: 1701.1781333 (137) total: 3.54s remaining: 307ms
138: learn: 1672.2870872 test: 1699.8385806 best: 1699.8385806 (138) total: 3.56s remaining: 282ms
139: learn: 1671.2528308 test: 1699.1960410 best: 1699.1960410 (139) total: 3.58s remaining: 256ms
140: learn: 1670.3806365 test: 1698.8577719 best: 1698.8577719 (140) total: 3.61s remaining: 230ms
141: learn: 1669.5550759 test: 1698.2015675 best: 1698.2015675 (141) total: 3.63s remaining: 205ms
142: learn: 1668.6274188 test: 1697.6025698 best: 1697.6025698 (142) total: 3.65s remaining: 179ms
143: learn: 1667.0002310 test: 1696.1009830 best: 1696.1009830 (143) total: 3.68s remaining: 153ms
144: learn: 1665.6086107 test: 1695.4009724 best: 1695.4009724 (144) total: 3.71s remaining: 128ms
145: learn: 1664.3174949 test: 1694.5128514 best: 1694.5128514 (145) total: 3.73s remaining: 102ms
146: learn: 1663.0358960 test: 1693.6154612 best: 1693.6154612 (146) total: 3.76s remaining: 76.7ms
147: learn: 1662.0241538 test: 1692.7610681 best: 1692.7610681 (147) total: 3.79s remaining: 51.2ms
148: learn: 1660.9249334 test: 1692.2699620 best: 1692.2699620 (148) total: 3.81s remaining: 25.6ms
149: learn: 1659.7024510 test: 1690.9462746 best: 1690.9462746 (149) total: 3.84s remaining: 0us

bestTest = 1690.946275

bestIteration = 149

85: loss: 1690.9462746 best: 1687.5431737 (81) total: 3m 47s remaining: 26.4s
0: learn: 6802.8922893 test: 6830.2031252 best: 6830.2031252 (0) total: 26.3ms remaining: 3.91s
1: learn: 6629.3290875 test: 6656.3865140 best: 6656.3865140 (1) total: 52.3ms remaining: 3.87s
2: learn: 6461.0604191 test: 6488.0114085 best: 6488.0114085 (2) total: 79.1ms remaining: 3.87s
3: learn: 6299.8486120 test: 6327.0585719 best: 6327.0585719 (3) total: 104ms remaining: 3.81s
4: learn: 6144.0966929 test: 6170.9398090 best: 6170.9398090 (4) total: 135ms remaining: 3.91s
5: learn: 5992.5857509 test: 6019.2821406 best: 6019.2821406 (5) total: 160ms remaining: 3.83s
6: learn: 5845.8798797 test: 5872.5646286 best: 5872.5646286 (6) total: 185ms remaining: 3.79s
7: learn: 5704.9582191 test: 5731.3230184 best: 5731.3230184 (7) total: 213ms remaining: 3.77s
8: learn: 5568.2569362 test: 5594.2785171 best: 5594.2785171 (8) total: 240ms remaining: 3.76s
9: learn: 5435.4267533 test: 5461.1685405 best: 5461.1685405 (9) total: 266ms remaining: 3.72s
10: learn: 5306.7204150 test: 5332.8616043 best: 5332.8616043 (10) total: 291ms remaining: 3.68s

11: learn: 5182.8867002 test: 5208.8747353 best: 5208.8747353 (11) total: 318ms remaining: 3.65s
12: learn: 5064.5257150 test: 5090.2073841 best: 5090.2073841 (12) total: 346ms remaining: 3.65s
13: learn: 4948.0213951 test: 4973.4579253 best: 4973.4579253 (13) total: 372ms remaining: 3.62s
14: learn: 4835.8694855 test: 4860.8740946 best: 4860.8740946 (14) total: 399ms remaining: 3.59s
15: learn: 4728.4517822 test: 4753.2946431 best: 4753.2946431 (15) total: 425ms remaining: 3.56s
16: learn: 4623.8167088 test: 4647.9953900 best: 4647.9953900 (16) total: 452ms remaining: 3.54s
17: learn: 4523.1594626 test: 4547.0844260 best: 4547.0844260 (17) total: 486ms remaining: 3.56s
18: learn: 4425.6534281 test: 4449.1615621 best: 4449.1615621 (18) total: 512ms remaining: 3.53s
19: learn: 4329.9985067 test: 4353.3462871 best: 4353.3462871 (19) total: 543ms remaining: 3.53s
20: learn: 4239.0497527 test: 4261.9184291 best: 4261.9184291 (20) total: 570ms remaining: 3.5s
21: learn: 4151.2013028 test: 4173.6974147 best: 4173.6974147 (21) total: 595ms remaining: 3.46s
22: learn: 4067.6470194 test: 4089.8859627 best: 4089.8859627 (22) total: 621ms remaining: 3.43s
23: learn: 3985.6430407 test: 4007.5371664 best: 4007.5371664 (23) total: 647ms remaining: 3.4s
24: learn: 3908.0681339 test: 3929.3324847 best: 3929.3324847 (24) total: 673ms remaining: 3.36s
25: learn: 3832.2514295 test: 3853.0230595 best: 3853.0230595 (25) total: 698ms remaining: 3.33s
26: learn: 3760.4389477 test: 3780.9511628 best: 3780.9511628 (26) total: 726ms remaining: 3.31s
27: learn: 3690.0703584 test: 3710.0801024 best: 3710.0801024 (27) total: 759ms remaining: 3.31s
28: learn: 3622.6258636 test: 3642.3231589 best: 3642.3231589 (28) total: 793ms remaining: 3.31s
29: learn: 3557.1787077 test: 3576.3833110 best: 3576.3833110 (29) total: 830ms remaining: 3.32s
30: learn: 3494.0585233 test: 3512.9403964 best: 3512.9403964 (30) total: 862ms remaining: 3.31s
31: learn: 3433.8676539 test: 3452.2884021 best: 3452.2884021 (31) total: 897ms remaining: 3.31s
32: learn: 3374.2312123 test: 3392.2622950 best: 3392.2622950 (32) total: 934ms remaining: 3.31s
33: learn: 3317.3383020 test: 3335.1268401 best: 3335.1268401 (33) total: 965ms remaining: 3.29s
34: learn: 3262.0687236 test: 3279.2616710 best: 3279.2616710 (34) total: 990ms remaining: 3.25s
35: learn: 3209.0030027 test: 3225.8553909 best: 3225.8553909 (35) total: 1.01s remaining: 3.21s
36: learn: 3157.7198799 test: 3174.0713109 best: 3174.0713109 (36) total: 1.04s remaining: 3.18s
37: learn: 3108.5241470 test: 3124.6826496 best: 3124.6826496 (37) total: 1.06s remaining: 3.14s
38: learn: 3062.1813469 test: 3077.9084924 best: 3077.9084924 (38) total: 1.09s remaining: 3.1s
39: learn: 3018.7814994 test: 3034.1274114 best: 3034.1274114 (39) total: 1.11s remaining: 3.07s
40: learn: 2976.3547979 test: 2991.3249760 best: 2991.3249760 (40) total: 1.14s remaining: 3.04s
41: learn: 2935.4725071 test: 2949.9189164 best: 2949.9189164 (41) total: 1.17s remaining: 3s
42: learn: 2895.9878888 test: 2910.2056486 best: 2910.2056486 (42) total: 1.19s remaining: 2.97s
43: learn: 2857.3230495 test: 2871.1126085 best: 2871.1126085 (43) total: 1.22s remaining: 2.93s
44: learn: 2821.0974047 test: 2834.3363850 best: 2834.3363850 (44) total: 1.24s remaining: 2.9s
45: learn: 2786.1145256 test: 2798.8055682 best: 2798.8055682 (45) total: 1.27s remaining: 2.87s
46: learn: 2752.9055936 test: 2765.1628205 best: 2765.1628205 (46) total: 1.3s remaining: 2.85s
47: learn: 2719.8960132 test: 2731.8027251 best: 2731.8027251 (47) total: 1.32s remaining: 2.82s
48: learn: 2689.5547904 test: 2701.0030382 best: 2701.0030382 (48) total: 1.35s remaining: 2.79s
49: learn: 2659.7544844 test: 2671.1175149 best: 2671.1175149 (49) total: 1.38s remaining: 2.76s
50: learn: 2630.4583201 test: 2641.2359818 best: 2641.2359818 (50) total: 1.4s remaining: 2.73s
51: learn: 2603.4625820 test: 2614.1755852 best: 2614.1755852 (51) total: 1.43s remaining: 2.7s
52: learn: 2577.5000000 test: 2597.7100001 best: 2597.7100001 (52) total: 1.46s remaining: 2.67s

52: learn: 2577.5369690 test: 2587.7198061 best: 2587.7198061 (52) total: 1.46s remaining: 2.67s
53: learn: 2551.9419034 test: 2561.5521122 best: 2561.5521122 (53) total: 1.48s remaining: 2.63s
54: learn: 2527.6212933 test: 2536.9619986 best: 2536.9619986 (54) total: 1.51s remaining: 2.61s
55: learn: 2504.1313655 test: 2513.2264524 best: 2513.2264524 (55) total: 1.54s remaining: 2.58s
56: learn: 2480.9842696 test: 2489.9181855 best: 2489.9181855 (56) total: 1.56s remaining: 2.55s
57: learn: 2458.6387159 test: 2467.2583935 best: 2467.2583935 (57) total: 1.59s remaining: 2.52s
58: learn: 2437.6741646 test: 2445.9082369 best: 2445.9082369 (58) total: 1.61s remaining: 2.49s
59: learn: 2417.6553320 test: 2425.3975085 best: 2425.3975085 (59) total: 1.64s remaining: 2.46s
60: learn: 2398.3857225 test: 2405.7996476 best: 2405.7996476 (60) total: 1.67s remaining: 2.43s
61: learn: 2379.7015210 test: 2386.7144702 best: 2386.7144702 (61) total: 1.69s remaining: 2.4s
62: learn: 2362.1514249 test: 2368.9323598 best: 2368.9323598 (62) total: 1.72s remaining: 2.37s
63: learn: 2342.3212734 test: 2348.8243196 best: 2348.8243196 (63) total: 1.75s remaining: 2.35s
64: learn: 2324.2769345 test: 2330.4944945 best: 2330.4944945 (64) total: 1.77s remaining: 2.32s
65: learn: 2309.1016603 test: 2314.8917358 best: 2314.8917358 (65) total: 1.8s remaining: 2.29s
66: learn: 2294.1221997 test: 2299.4342379 best: 2299.4342379 (66) total: 1.82s remaining: 2.26s
67: learn: 2280.2375835 test: 2285.2327867 best: 2285.2327867 (67) total: 1.85s remaining: 2.23s
68: learn: 2265.2408087 test: 2269.8992863 best: 2269.8992863 (68) total: 1.88s remaining: 2.2s
69: learn: 2251.9704796 test: 2256.2412989 best: 2256.2412989 (69) total: 1.9s remaining: 2.17s
70: learn: 2237.2731125 test: 2241.2636951 best: 2241.2636951 (70) total: 1.93s remaining: 2.14s
71: learn: 2224.6707136 test: 2228.4513297 best: 2228.4513297 (71) total: 1.95s remaining: 2.11s
72: learn: 2212.9708124 test: 2216.2483476 best: 2216.2483476 (72) total: 1.97s remaining: 2.08s
73: learn: 2201.4969143 test: 2204.6160704 best: 2204.6160704 (73) total: 2s remaining: 2.05s
74: learn: 2189.9951798 test: 2192.9622202 best: 2192.9622202 (74) total: 2.02s remaining: 2.02s
75: learn: 2179.3002268 test: 2182.0585495 best: 2182.0585495 (75) total: 2.05s remaining: 2s
76: learn: 2168.4558065 test: 2171.0169040 best: 2171.0169040 (76) total: 2.07s remaining: 1.97s
77: learn: 2159.0508656 test: 2161.2577082 best: 2161.2577082 (77) total: 2.1s remaining: 1.94s
78: learn: 2148.6988455 test: 2150.5672854 best: 2150.5672854 (78) total: 2.13s remaining: 1.91s
79: learn: 2137.8717737 test: 2139.6367994 best: 2139.6367994 (79) total: 2.15s remaining: 1.88s
80: learn: 2128.2617506 test: 2129.8480213 best: 2129.8480213 (80) total: 2.17s remaining: 1.85s
81: learn: 2119.3912449 test: 2120.8399171 best: 2120.8399171 (81) total: 2.2s remaining: 1.82s
82: learn: 2109.9028984 test: 2111.2151280 best: 2111.2151280 (82) total: 2.23s remaining: 1.8s
83: learn: 2102.1034030 test: 2103.1393202 best: 2103.1393202 (83) total: 2.25s remaining: 1.77s
84: learn: 2094.5443348 test: 2095.4367369 best: 2095.4367369 (84) total: 2.27s remaining: 1.74s
85: learn: 2085.7504637 test: 2086.4470940 best: 2086.4470940 (85) total: 2.3s remaining: 1.71s
86: learn: 2077.2565473 test: 2077.8847107 best: 2077.8847107 (86) total: 2.32s remaining: 1.68s
87: learn: 2070.2848510 test: 2070.7520735 best: 2070.7520735 (87) total: 2.35s remaining: 1.66s
88: learn: 2062.4344269 test: 2062.5804245 best: 2062.5804245 (88) total: 2.38s remaining: 1.63s
89: learn: 2056.2421994 test: 2056.0988182 best: 2056.0988182 (89) total: 2.4s remaining: 1.6s
90: learn: 2049.7618415 test: 2049.4321916 best: 2049.4321916 (90) total: 2.43s remaining: 1.58s
91: learn: 2043.8221562 test: 2043.3753721 best: 2043.3753721 (91) total: 2.46s remaining: 1.55s
92: learn: 2037.8943859 test: 2037.3294598 best: 2037.3294598 (92) total: 2.48s remaining: 1.52s
93: learn: 2032.0177234 test: 2031.3609418 best: 2031.3609418 (93) total: 2.5s remaining: 1.49s

94: learn: 2026.2105965 test: 2025.3069270 best: 2025.3069270 (94) total: 2.53s remaining: 1.47s
95: learn: 2019.9679158 test: 2019.0243915 best: 2019.0243915 (95) total: 2.56s remaining: 1.44s
96: learn: 2014.8845453 test: 2013.6466050 best: 2013.6466050 (96) total: 2.58s remaining: 1.41s
97: learn: 2009.7873267 test: 2008.6033739 best: 2008.6033739 (97) total: 2.6s remaining: 1.38s
98: learn: 2004.0907106 test: 2002.9029754 best: 2002.9029754 (98) total: 2.63s remaining: 1.35s
99: learn: 1999.2696843 test: 1998.0323196 best: 1998.0323196 (99) total: 2.65s remaining: 1.33s
100: learn: 1994.5865906 test: 1993.2762743 best: 1993.2762743 (100) total: 2.68s remaining: 1.3s
101: learn: 1989.5942120 test: 1988.0779853 best: 1988.0779853 (101) total: 2.71s remaining: 1.27s
102: learn: 1985.4611363 test: 1983.8025045 best: 1983.8025045 (102) total: 2.73s remaining: 1.25s
103: learn: 1980.2128543 test: 1978.4625378 best: 1978.4625378 (103) total: 2.76s remaining: 1.22s
104: learn: 1975.3982871 test: 1973.5730919 best: 1973.5730919 (104) total: 2.78s remaining: 1.19s
105: learn: 1971.2974218 test: 1969.3669070 best: 1969.3669070 (105) total: 2.81s remaining: 1.17s
106: learn: 1967.6899643 test: 1965.5948986 best: 1965.5948986 (106) total: 2.83s remaining: 1.14s
107: learn: 1963.9898890 test: 1961.7507987 best: 1961.7507987 (107) total: 2.86s remaining: 1.11s
108: learn: 1960.4592592 test: 1958.1301546 best: 1958.1301546 (108) total: 2.88s remaining: 1.08s
109: learn: 1956.2889191 test: 1953.9732546 best: 1953.9732546 (109) total: 2.9s remaining: 1.06s
110: learn: 1952.9837977 test: 1950.5727836 best: 1950.5727836 (110) total: 2.93s remaining: 1.03s
111: learn: 1949.8403450 test: 1947.2750752 best: 1947.2750752 (111) total: 2.95s remaining: 1s
112: learn: 1946.5832854 test: 1943.9612961 best: 1943.9612961 (112) total: 2.97s remaining: 974ms
113: learn: 1942.9091265 test: 1940.2452772 best: 1940.2452772 (113) total: 3s remaining: 947ms
114: learn: 1939.7016481 test: 1936.8983956 best: 1936.8983956 (114) total: 3.03s remaining: 921ms
115: learn: 1936.0294764 test: 1933.2218097 best: 1933.2218097 (115) total: 3.05s remaining: 894ms
116: learn: 1932.6650826 test: 1929.7330497 best: 1929.7330497 (116) total: 3.07s remaining: 867ms
117: learn: 1929.5701961 test: 1926.7130018 best: 1926.7130018 (117) total: 3.1s remaining: 840ms
118: learn: 1926.6205557 test: 1923.7401016 best: 1923.7401016 (118) total: 3.12s remaining: 814ms
119: learn: 1923.8051920 test: 1920.7679989 best: 1920.7679989 (119) total: 3.15s remaining: 786ms
120: learn: 1921.3473942 test: 1918.4420696 best: 1918.4420696 (120) total: 3.17s remaining: 759ms
121: learn: 1918.9296373 test: 1915.9660597 best: 1915.9660597 (121) total: 3.19s remaining: 732ms
122: learn: 1916.4551382 test: 1913.5113081 best: 1913.5113081 (122) total: 3.21s remaining: 706ms
123: learn: 1914.0517635 test: 1911.1422434 best: 1911.1422434 (123) total: 3.24s remaining: 679ms
124: learn: 1911.5023699 test: 1908.5654649 best: 1908.5654649 (124) total: 3.26s remaining: 652ms
125: learn: 1909.0650473 test: 1906.1148108 best: 1906.1148108 (125) total: 3.28s remaining: 625ms
126: learn: 1906.8592941 test: 1903.6533594 best: 1903.6533594 (126) total: 3.31s remaining: 599ms
127: learn: 1904.7754206 test: 1901.4888672 best: 1901.4888672 (127) total: 3.33s remaining: 572ms
128: learn: 1902.4347144 test: 1899.0821024 best: 1899.0821024 (128) total: 3.35s remaining: 546ms
129: learn: 1900.4323237 test: 1897.0008513 best: 1897.0008513 (129) total: 3.38s remaining: 519ms
130: learn: 1898.0365682 test: 1894.5908616 best: 1894.5908616 (130) total: 3.4s remaining: 493ms
131: learn: 1895.9537783 test: 1892.4762270 best: 1892.4762270 (131) total: 3.42s remaining: 467ms
132: learn: 1894.0440519 test: 1890.6183440 best: 1890.6183440 (132) total: 3.45s remaining: 441ms
133: learn: 1891.9678571 test: 1888.4975498 best: 1888.4975498 (133) total: 3.47s remaining: 415ms
134: learn: 1889.8411851 test: 1886.4466905 best: 1886.4466905 (134) total: 3.5s remaining: 389ms

135: learn: 1887.9114503 test: 1884.6239675 best: 1884.6239675 (135) total: 3.52s remaining: 363ms
136: learn: 1886.1544728 test: 1883.1077706 best: 1883.1077706 (136) total: 3.54s remaining: 336ms
137: learn: 1884.0956277 test: 1881.1103597 best: 1881.1103597 (137) total: 3.57s remaining: 310ms
138: learn: 1882.3682700 test: 1879.4153745 best: 1879.4153745 (138) total: 3.59s remaining: 284ms
139: learn: 1880.7000364 test: 1877.7101773 best: 1877.7101773 (139) total: 3.62s remaining: 258ms
140: learn: 1878.9330228 test: 1875.9553593 best: 1875.9553593 (140) total: 3.64s remaining: 232ms
141: learn: 1877.3406219 test: 1874.4375789 best: 1874.4375789 (141) total: 3.66s remaining: 206ms
142: learn: 1875.8445327 test: 1872.9570821 best: 1872.9570821 (142) total: 3.69s remaining: 180ms
143: learn: 1873.9624523 test: 1871.0595159 best: 1871.0595159 (143) total: 3.71s remaining: 155ms
144: learn: 1872.3938810 test: 1869.5266504 best: 1869.5266504 (144) total: 3.73s remaining: 129ms
145: learn: 1870.8303233 test: 1867.9879784 best: 1867.9879784 (145) total: 3.76s remaining: 103ms
146: learn: 1869.0696471 test: 1866.3372242 best: 1866.3372242 (146) total: 3.78s remaining: 77.2ms
147: learn: 1867.7317274 test: 1864.9962743 best: 1864.9962743 (147) total: 3.81s remaining: 51.4ms
148: learn: 1866.1409362 test: 1863.3838729 best: 1863.3838729 (148) total: 3.83s remaining: 25.7ms
149: learn: 1864.9395215 test: 1862.2309416 best: 1862.2309416 (149) total: 3.85s remaining: 0us

bestTest = 1862.230942

bestIteration = 149

86: loss: 1862.2309416 best: 1687.5431737 (81) total: 3m 51s remaining: 23.9s
0: learn: 6387.9010709 test: 6413.3781034 best: 6413.3781034 (0) total: 26.2ms remaining: 3.9s
1: learn: 5857.7361685 test: 5883.0145157 best: 5883.0145157 (1) total: 59.1ms remaining: 4.37s
2: learn: 5385.4612462 test: 5410.4054427 best: 5410.4054427 (2) total: 85.8ms remaining: 4.21s
3: learn: 4968.3279829 test: 4992.7986362 best: 4992.7986362 (3) total: 111ms remaining: 4.06s
4: learn: 4604.2861747 test: 4627.5190614 best: 4627.5190614 (4) total: 136ms remaining: 3.96s
5: learn: 4276.5912415 test: 4298.1193694 best: 4298.1193694 (5) total: 162ms remaining: 3.89s
6: learn: 3984.2714208 test: 4004.3133089 best: 4004.3133089 (6) total: 185ms remaining: 3.79s
7: learn: 3724.8725215 test: 3743.4165792 best: 3743.4165792 (7) total: 210ms remaining: 3.74s
8: learn: 3498.8069486 test: 3515.1739170 best: 3515.1739170 (8) total: 240ms remaining: 3.76s
9: learn: 3296.4359331 test: 3311.8703973 best: 3311.8703973 (9) total: 266ms remaining: 3.73s
10: learn: 3124.4684869 test: 3138.7015747 best: 3138.7015747 (10) total: 291ms remaining: 3.68s
11: learn: 2968.7215631 test: 2981.8511436 best: 2981.8511436 (11) total: 316ms remaining: 3.64s
12: learn: 2832.3591441 test: 2844.5337024 best: 2844.5337024 (12) total: 344ms remaining: 3.63s
13: learn: 2717.0455280 test: 2727.3368868 best: 2727.3368868 (13) total: 370ms remaining: 3.6s
14: learn: 2616.2504840 test: 2625.8865165 best: 2625.8865165 (14) total: 394ms remaining: 3.55s
15: learn: 2528.8610287 test: 2537.8699620 best: 2537.8699620 (15) total: 421ms remaining: 3.52s
16: learn: 2453.6041198 test: 2461.6902077 best: 2461.6902077 (16) total: 451ms remaining: 3.53s
17: learn: 2387.9347882 test: 2394.8503757 best: 2394.8503757 (17) total: 477ms remaining: 3.5s
18: learn: 2330.2487493 test: 2335.9185216 best: 2335.9185216 (18) total: 502ms remaining: 3.46s
19: learn: 2269.8023601 test: 2274.5089256 best: 2274.5089256 (19) total: 525ms remaining: 3.42s
20: learn: 2220.0329665 test: 2224.3304133 best: 2224.3304133 (20) total: 552ms remaining: 3.39s

21: learn: 2181.0896109 test: 2184.2260630 best: 2184.2260630 (21) total: 575ms remaining: 3.34s
22: learn: 2142.4700588 test: 2145.1335560 best: 2145.1335560 (22) total: 598ms remaining: 3.3s
23: learn: 2114.3157333 test: 2116.2607277 best: 2116.2607277 (23) total: 622ms remaining: 3.26s
24: learn: 2089.5064498 test: 2089.8641521 best: 2089.8641521 (24) total: 650ms remaining: 3.25s
25: learn: 2066.9655683 test: 2066.7504462 best: 2066.7504462 (25) total: 673ms remaining: 3.21s
26: learn: 2042.4850624 test: 2041.6361624 best: 2041.6361624 (26) total: 703ms remaining: 3.2s
27: learn: 2021.8285034 test: 2020.6759458 best: 2020.6759458 (27) total: 726ms remaining: 3.16s
28: learn: 2004.5055127 test: 2002.7889272 best: 2002.7889272 (28) total: 752ms remaining: 3.14s
29: learn: 1989.6743905 test: 1987.7392775 best: 1987.7392775 (29) total: 775ms remaining: 3.1s
30: learn: 1976.0207548 test: 1973.5665854 best: 1973.5665854 (30) total: 797ms remaining: 3.06s
31: learn: 1962.0600142 test: 1959.4232699 best: 1959.4232699 (31) total: 821ms remaining: 3.03s
32: learn: 1948.3152161 test: 1946.0963252 best: 1946.0963252 (32) total: 850ms remaining: 3.01s
33: learn: 1938.2497610 test: 1935.4686840 best: 1935.4686840 (33) total: 872ms remaining: 2.98s
34: learn: 1928.6827673 test: 1925.6190450 best: 1925.6190450 (34) total: 897ms remaining: 2.95s
35: learn: 1920.8549003 test: 1917.9445418 best: 1917.9445418 (35) total: 921ms remaining: 2.92s
36: learn: 1912.6610899 test: 1909.7816534 best: 1909.7816534 (36) total: 946ms remaining: 2.89s
37: learn: 1905.8685598 test: 1902.6529879 best: 1902.6529879 (37) total: 968ms remaining: 2.85s
38: learn: 1899.2590021 test: 1896.0134875 best: 1896.0134875 (38) total: 992ms remaining: 2.82s
39: learn: 1892.3005360 test: 1889.5640103 best: 1889.5640103 (39) total: 1.02s remaining: 2.8s
40: learn: 1885.0470043 test: 1882.2146572 best: 1882.2146572 (40) total: 1.04s remaining: 2.77s
41: learn: 1878.0513773 test: 1875.2864543 best: 1875.2864543 (41) total: 1.07s remaining: 2.75s
42: learn: 1873.4304123 test: 1870.9155275 best: 1870.9155275 (42) total: 1.1s remaining: 2.73s
43: learn: 1869.0925004 test: 1866.2241016 best: 1866.2241016 (43) total: 1.12s remaining: 2.7s
44: learn: 1864.5230117 test: 1861.7415109 best: 1861.7415109 (44) total: 1.15s remaining: 2.69s
45: learn: 1860.1391258 test: 1857.5767666 best: 1857.5767666 (45) total: 1.18s remaining: 2.66s
46: learn: 1855.2640928 test: 1853.4231196 best: 1853.4231196 (46) total: 1.2s remaining: 2.63s
47: learn: 1851.2354074 test: 1849.4276914 best: 1849.4276914 (47) total: 1.22s remaining: 2.6s
48: learn: 1846.9896834 test: 1845.5802811 best: 1845.5802811 (48) total: 1.25s remaining: 2.57s
49: learn: 1843.2531454 test: 1841.6700138 best: 1841.6700138 (49) total: 1.27s remaining: 2.54s
50: learn: 1836.3693930 test: 1834.6560019 best: 1834.6560019 (50) total: 1.3s remaining: 2.52s
51: learn: 1832.0469124 test: 1830.4991259 best: 1830.4991259 (51) total: 1.33s remaining: 2.5s
52: learn: 1829.2154984 test: 1827.6918723 best: 1827.6918723 (52) total: 1.35s remaining: 2.48s
53: learn: 1825.1672766 test: 1823.6641213 best: 1823.6641213 (53) total: 1.38s remaining: 2.45s
54: learn: 1820.6182549 test: 1819.7448864 best: 1819.7448864 (54) total: 1.41s remaining: 2.44s
55: learn: 1818.1585506 test: 1817.4209895 best: 1817.4209895 (55) total: 1.44s remaining: 2.41s
56: learn: 1815.2885875 test: 1814.4175023 best: 1814.4175023 (56) total: 1.46s remaining: 2.38s
57: learn: 1812.4425248 test: 1811.7167641 best: 1811.7167641 (57) total: 1.49s remaining: 2.36s
58: learn: 1809.6258140 test: 1809.0363044 best: 1809.0363044 (58) total: 1.51s remaining: 2.33s
59: learn: 1806.8993740 test: 1806.5133270 best: 1806.5133270 (59) total: 1.54s remaining: 2.3s
60: learn: 1804.4226863 test: 1804.2579825 best: 1804.2579825 (60) total: 1.56s remaining: 2.27s
61: learn: 1802.5316464 test: 1802.2048044 best: 1802.2048044 (61) total: 1.58s remaining: 2.25s
62: learn: 1799.9589297 test: 1799.7090940 best: 1799.7090940 (62) total: 1.61s remaining: 2.22s

62: learn: 1799.83689297 test: 1799.7090940 best: 1799.7090940 (62) total: 1.61s remaining: 2.22s
63: learn: 1797.7861776 test: 1797.6948666 best: 1797.6948666 (63) total: 1.63s remaining: 2.19s
64: learn: 1795.1954924 test: 1795.3852308 best: 1795.3852308 (64) total: 1.66s remaining: 2.16s
65: learn: 1792.8066509 test: 1793.7648777 best: 1793.7648777 (65) total: 1.68s remaining: 2.13s
66: learn: 1790.7223777 test: 1791.6953105 best: 1791.6953105 (66) total: 1.7s remaining: 2.11s
67: learn: 1788.1503899 test: 1788.9158249 best: 1788.9158249 (67) total: 1.73s remaining: 2.09s
68: learn: 1786.5898617 test: 1787.6733857 best: 1787.6733857 (68) total: 1.75s remaining: 2.06s
69: learn: 1784.5547634 test: 1786.0130899 best: 1786.0130899 (69) total: 1.78s remaining: 2.03s
70: learn: 1782.6620501 test: 1784.5590813 best: 1784.5590813 (70) total: 1.8s remaining: 2s
71: learn: 1780.8179918 test: 1782.9505290 best: 1782.9505290 (71) total: 1.82s remaining: 1.97s
72: learn: 1778.9116646 test: 1780.8985630 best: 1780.8985630 (72) total: 1.85s remaining: 1.95s
73: learn: 1777.4393425 test: 1779.2831979 best: 1779.2831979 (73) total: 1.87s remaining: 1.92s
74: learn: 1776.0938031 test: 1778.0813337 best: 1778.0813337 (74) total: 1.89s remaining: 1.89s
75: learn: 1773.5661356 test: 1775.8790087 best: 1775.8790087 (75) total: 1.92s remaining: 1.86s
76: learn: 1770.1176442 test: 1772.9262836 best: 1772.9262836 (76) total: 1.95s remaining: 1.84s
77: learn: 1766.9497531 test: 1770.3538584 best: 1770.3538584 (77) total: 1.97s remaining: 1.82s
78: learn: 1764.1982890 test: 1768.2758488 best: 1768.2758488 (78) total: 1.99s remaining: 1.79s
79: learn: 1761.1860245 test: 1765.6908421 best: 1765.6908421 (79) total: 2.02s remaining: 1.77s
80: learn: 1759.1664186 test: 1763.9345608 best: 1763.9345608 (80) total: 2.06s remaining: 1.75s
81: learn: 1757.8480850 test: 1762.9325503 best: 1762.9325503 (81) total: 2.08s remaining: 1.73s
82: learn: 1755.8853734 test: 1761.1411724 best: 1761.1411724 (82) total: 2.1s remaining: 1.7s
83: learn: 1754.8563371 test: 1760.3942170 best: 1760.3942170 (83) total: 2.13s remaining: 1.67s
84: learn: 1753.1481217 test: 1758.9340410 best: 1758.9340410 (84) total: 2.15s remaining: 1.65s
85: learn: 1751.6267552 test: 1757.6228864 best: 1757.6228864 (85) total: 2.18s remaining: 1.62s
86: learn: 1750.4044227 test: 1756.6752304 best: 1756.6752304 (86) total: 2.2s remaining: 1.59s
87: learn: 1749.0470098 test: 1755.1363859 best: 1755.1363859 (87) total: 2.23s remaining: 1.57s
88: learn: 1747.1973146 test: 1753.2292643 best: 1753.2292643 (88) total: 2.25s remaining: 1.54s
89: learn: 1745.4308455 test: 1751.9675409 best: 1751.9675409 (89) total: 2.27s remaining: 1.51s
90: learn: 1743.1767695 test: 1749.9562699 best: 1749.9562699 (90) total: 2.29s remaining: 1.49s
91: learn: 1741.8737728 test: 1749.1690847 best: 1749.1690847 (91) total: 2.32s remaining: 1.46s
92: learn: 1740.9514239 test: 1748.3137521 best: 1748.3137521 (92) total: 2.34s remaining: 1.43s
93: learn: 1739.5270197 test: 1747.2850863 best: 1747.2850863 (93) total: 2.36s remaining: 1.41s
94: learn: 1737.8493765 test: 1746.2602109 best: 1746.2602109 (94) total: 2.38s remaining: 1.38s
95: learn: 1736.6396812 test: 1745.3383709 best: 1745.3383709 (95) total: 2.41s remaining: 1.35s
96: learn: 1735.0334736 test: 1743.5601955 best: 1743.5601955 (96) total: 2.44s remaining: 1.33s
97: learn: 1733.5714839 test: 1742.6808429 best: 1742.6808429 (97) total: 2.46s remaining: 1.31s
98: learn: 1731.8733378 test: 1741.2235134 best: 1741.2235134 (98) total: 2.49s remaining: 1.28s
99: learn: 1730.3744137 test: 1740.1097340 best: 1740.1097340 (99) total: 2.51s remaining: 1.26s
100: learn: 1729.3667061 test: 1739.2713690 best: 1739.2713690 (100) total: 2.54s remaining: 1.23s
101: learn: 1728.0990018 test: 1738.0258261 best: 1738.0258261 (101) total: 2.56s remaining: 1.2s
102: learn: 1726.0513473 test: 1736.4270885 best: 1736.4270885 (102) total: 2.58s remaining: 1.18s
103: learn: 1724.7958846 test: 1735.4882946 best: 1735.4882946 (103) total: 2.61s remaining: 1.15s

104: learn: 1723.8337495 test: 1734.6289625 best: 1734.6289625 (104) total: 2.63s remaining: 1.13s
105: learn: 1722.4488601 test: 1733.3899406 best: 1733.3899406 (105) total: 2.66s remaining: 1.1s
106: learn: 1721.1150308 test: 1732.2842842 best: 1732.2842842 (106) total: 2.68s remaining: 1.08s
107: learn: 1719.1905214 test: 1730.6841052 best: 1730.6841052 (107) total: 2.7s remaining: 1.05s
108: learn: 1718.2294601 test: 1729.8892333 best: 1729.8892333 (108) total: 2.73s remaining: 1.02s
109: learn: 1717.1942456 test: 1729.0036573 best: 1729.0036573 (109) total: 2.75s remaining: 1s
110: learn: 1715.5945455 test: 1727.7347191 best: 1727.7347191 (110) total: 2.78s remaining: 977ms
111: learn: 1714.4986077 test: 1726.9512389 best: 1726.9512389 (111) total: 2.8s remaining: 951ms
112: learn: 1713.1768873 test: 1725.6850046 best: 1725.6850046 (112) total: 2.83s remaining: 928ms
113: learn: 1711.9329409 test: 1724.8159773 best: 1724.8159773 (113) total: 2.86s remaining: 904ms
114: learn: 1709.8837824 test: 1723.1154897 best: 1723.1154897 (114) total: 2.89s remaining: 879ms
115: learn: 1708.6870910 test: 1722.2667011 best: 1722.2667011 (115) total: 2.91s remaining: 854ms
116: learn: 1707.2157096 test: 1721.3077902 best: 1721.3077902 (116) total: 2.94s remaining: 830ms
117: learn: 1706.1872944 test: 1720.4961618 best: 1720.4961618 (117) total: 2.97s remaining: 807ms
118: learn: 1704.5983410 test: 1718.9931150 best: 1718.9931150 (118) total: 3s remaining: 782ms
119: learn: 1703.6679530 test: 1718.6247968 best: 1718.6247968 (119) total: 3.03s remaining: 757ms
120: learn: 1702.3920172 test: 1717.7638558 best: 1717.7638558 (120) total: 3.05s remaining: 732ms
121: learn: 1700.7268481 test: 1716.3222965 best: 1716.3222965 (121) total: 3.08s remaining: 707ms
122: learn: 1699.5414459 test: 1715.1952725 best: 1715.1952725 (122) total: 3.11s remaining: 682ms
123: learn: 1698.4034481 test: 1714.4628367 best: 1714.4628367 (123) total: 3.13s remaining: 657ms
124: learn: 1696.7004023 test: 1712.9218915 best: 1712.9218915 (124) total: 3.15s remaining: 631ms
125: learn: 1695.9730790 test: 1712.1619075 best: 1712.1619075 (125) total: 3.18s remaining: 605ms
126: learn: 1694.8691752 test: 1711.2594711 best: 1711.2594711 (126) total: 3.2s remaining: 580ms
127: learn: 1693.3269128 test: 1709.7072231 best: 1709.7072231 (127) total: 3.23s remaining: 556ms
128: learn: 1691.8726838 test: 1708.5068789 best: 1708.5068789 (128) total: 3.26s remaining: 531ms
129: learn: 1690.8020579 test: 1707.6332488 best: 1707.6332488 (129) total: 3.28s remaining: 505ms
130: learn: 1689.6550153 test: 1707.1172672 best: 1707.1172672 (130) total: 3.31s remaining: 480ms
131: learn: 1688.2197159 test: 1705.8920206 best: 1705.8920206 (131) total: 3.34s remaining: 455ms
132: learn: 1687.2939255 test: 1705.2724238 best: 1705.2724238 (132) total: 3.36s remaining: 430ms
133: learn: 1686.0907687 test: 1704.2838537 best: 1704.2838537 (133) total: 3.38s remaining: 404ms
134: learn: 1684.8497110 test: 1703.1266569 best: 1703.1266569 (134) total: 3.41s remaining: 379ms
135: learn: 1683.5184135 test: 1702.4613158 best: 1702.4613158 (135) total: 3.44s remaining: 354ms
136: learn: 1682.5292089 test: 1701.7329324 best: 1701.7329324 (136) total: 3.46s remaining: 328ms
137: learn: 1681.4784033 test: 1700.9642696 best: 1700.9642696 (137) total: 3.48s remaining: 303ms
138: learn: 1680.4468850 test: 1700.2462766 best: 1700.2462766 (138) total: 3.51s remaining: 278ms
139: learn: 1679.2433505 test: 1699.4539258 best: 1699.4539258 (139) total: 3.53s remaining: 252ms
140: learn: 1678.2957655 test: 1698.9996650 best: 1698.9996650 (140) total: 3.56s remaining: 227ms
141: learn: 1677.0993798 test: 1697.8242245 best: 1697.8242245 (141) total: 3.58s remaining: 202ms
142: learn: 1676.0873958 test: 1697.2809306 best: 1697.2809306 (142) total: 3.61s remaining: 177ms
143: learn: 1674.8263113 test: 1696.0954192 best: 1696.0954192 (143) total: 3.63s remaining: 151ms
144: learn: 1673.5031170 test: 1695.2695399 best: 1695.2695399 (144) total: 3.66s remaining: 126ms

145: learn: 1672.7447518 test: 1694.6066233 best: 1694.6066233 (145) total: 3.68s remaining: 101ms
146: learn: 1671.2430651 test: 1693.5360184 best: 1693.5360184 (146) total: 3.71s remaining: 75.6ms
147: learn: 1670.5364159 test: 1692.9382464 best: 1692.9382464 (147) total: 3.73s remaining: 50.4ms
148: learn: 1669.8493364 test: 1692.3381070 best: 1692.3381070 (148) total: 3.76s remaining: 25.2ms
149: learn: 1668.8063003 test: 1691.6777338 best: 1691.6777338 (149) total: 3.79s remaining: 0us

bestTest = 1691.677734

bestIteration = 149

87: loss: 1691.6777338 best: 1687.5431737 (81) total: 3m 54s remaining: 21.4s
0: learn: 6802.4650498 test: 6829.7849825 best: 6829.7849825 (0) total: 33.2ms remaining: 6.61s
1: learn: 6628.5063111 test: 6655.5788597 best: 6655.5788597 (1) total: 77.9ms remaining: 7.71s
2: learn: 6459.9296609 test: 6486.8893716 best: 6486.8893716 (2) total: 104ms remaining: 6.84s
3: learn: 6298.5448478 test: 6325.7734785 best: 6325.7734785 (3) total: 131ms remaining: 6.4s
4: learn: 6142.3874791 test: 6169.2818898 best: 6169.2818898 (4) total: 157ms remaining: 6.12s
5: learn: 5990.4442651 test: 6017.1847327 best: 6017.1847327 (5) total: 182ms remaining: 5.88s
6: learn: 5843.3977700 test: 5870.1886390 best: 5870.1886390 (6) total: 209ms remaining: 5.77s
7: learn: 5702.3710468 test: 5728.8407237 best: 5728.8407237 (7) total: 235ms remaining: 5.64s
8: learn: 5565.4138791 test: 5591.5293266 best: 5591.5293266 (8) total: 261ms remaining: 5.53s
9: learn: 5432.3041119 test: 5458.1585702 best: 5458.1585702 (9) total: 285ms remaining: 5.42s
10: learn: 5303.4362787 test: 5329.6977546 best: 5329.6977546 (10) total: 312ms remaining: 5.36s
11: learn: 5179.4060792 test: 5205.4944242 best: 5205.4944242 (11) total: 339ms remaining: 5.31s
12: learn: 5060.6765757 test: 5086.5156494 best: 5086.5156494 (12) total: 364ms remaining: 5.23s
13: learn: 4943.8014383 test: 4969.4190656 best: 4969.4190656 (13) total: 390ms remaining: 5.17s
14: learn: 4831.4322938 test: 4856.6171912 best: 4856.6171912 (14) total: 417ms remaining: 5.14s
15: learn: 4723.9710628 test: 4748.9899456 best: 4748.9899456 (15) total: 443ms remaining: 5.1s
16: learn: 4619.1310303 test: 4643.5125399 best: 4643.5125399 (16) total: 468ms remaining: 5.04s
17: learn: 4518.4510630 test: 4542.5853519 best: 4542.5853519 (17) total: 493ms remaining: 4.99s
18: learn: 4420.8849778 test: 4444.6078089 best: 4444.6078089 (18) total: 522ms remaining: 4.97s
19: learn: 4325.2433001 test: 4348.8027750 best: 4348.8027750 (19) total: 547ms remaining: 4.92s
20: learn: 4233.3684294 test: 4256.4725648 best: 4256.4725648 (20) total: 572ms remaining: 4.87s
21: learn: 4145.8345495 test: 4168.5259523 best: 4168.5259523 (21) total: 596ms remaining: 4.82s
22: learn: 4061.5203050 test: 4083.8530144 best: 4083.8530144 (22) total: 623ms remaining: 4.79s
23: learn: 3979.2395342 test: 4001.3572480 best: 4001.3572480 (23) total: 647ms remaining: 4.74s
24: learn: 3901.3917349 test: 3922.8770666 best: 3922.8770666 (24) total: 672ms remaining: 4.71s
25: learn: 3826.5356235 test: 3847.4905000 best: 3847.4905000 (25) total: 699ms remaining: 4.67s
26: learn: 3754.6769805 test: 3775.4105699 best: 3775.4105699 (26) total: 726ms remaining: 4.65s
27: learn: 3684.0489974 test: 3704.3947331 best: 3704.3947331 (27) total: 751ms remaining: 4.61s
28: learn: 3616.6016924 test: 3636.6988987 best: 3636.6988987 (28) total: 776ms remaining: 4.58s
29: learn: 3551.5083485 test: 3571.3038701 best: 3571.3038701 (29) total: 801ms remaining: 4.54s
30: learn: 3489.5850522 test: 3509.0810900 best: 3509.0810900 (30) total: 829ms remaining: 4.52s

31: learn: 3429.4452877 test: 3448.4849461 best: 3448.4849461 (31) total: 855ms remaining: 4.49s
32: learn: 3369.8086892 test: 3388.4033798 best: 3388.4033798 (32) total: 879ms remaining: 4.45s
33: learn: 3312.8364716 test: 3331.1891566 best: 3331.1891566 (33) total: 911ms remaining: 4.45s
34: learn: 3257.1278142 test: 3274.9817866 best: 3274.9817866 (34) total: 936ms remaining: 4.41s
35: learn: 3203.8541307 test: 3221.3796312 best: 3221.3796312 (35) total: 961ms remaining: 4.38s
36: learn: 3152.4955485 test: 3169.6145480 best: 3169.6145480 (36) total: 988ms remaining: 4.35s
37: learn: 3103.0907210 test: 3120.0202919 best: 3120.0202919 (37) total: 1.01s remaining: 4.33s
38: learn: 3056.5686714 test: 3073.0804207 best: 3073.0804207 (38) total: 1.04s remaining: 4.29s
39: learn: 3012.2316969 test: 3028.2676273 best: 3028.2676273 (39) total: 1.07s remaining: 4.27s
40: learn: 2969.8314146 test: 2985.4908392 best: 2985.4908392 (40) total: 1.1s remaining: 4.26s
41: learn: 2928.8548752 test: 2943.8346181 best: 2943.8346181 (41) total: 1.13s remaining: 4.25s
42: learn: 2889.4684489 test: 2904.2143631 best: 2904.2143631 (42) total: 1.16s remaining: 4.22s
43: learn: 2850.9445540 test: 2865.2467334 best: 2865.2467334 (43) total: 1.18s remaining: 4.19s
44: learn: 2814.6719990 test: 2828.5439418 best: 2828.5439418 (44) total: 1.21s remaining: 4.16s
45: learn: 2779.3897668 test: 2792.7731168 best: 2792.7731168 (45) total: 1.23s remaining: 4.12s
46: learn: 2745.7238168 test: 2758.7330161 best: 2758.7330161 (46) total: 1.25s remaining: 4.09s
47: learn: 2712.6572282 test: 2725.3177278 best: 2725.3177278 (47) total: 1.28s remaining: 4.05s
48: learn: 2682.0990098 test: 2694.3797101 best: 2694.3797101 (48) total: 1.31s remaining: 4.03s
49: learn: 2652.1524814 test: 2664.2830048 best: 2664.2830048 (49) total: 1.33s remaining: 4s
50: learn: 2623.3358325 test: 2634.8737489 best: 2634.8737489 (50) total: 1.36s remaining: 3.96s
51: learn: 2596.5263253 test: 2608.0707375 best: 2608.0707375 (51) total: 1.38s remaining: 3.93s
52: learn: 2570.6727868 test: 2581.7038065 best: 2581.7038065 (52) total: 1.41s remaining: 3.9s
53: learn: 2545.1209175 test: 2555.7784018 best: 2555.7784018 (53) total: 1.43s remaining: 3.87s
54: learn: 2521.1334859 test: 2531.3392481 best: 2531.3392481 (54) total: 1.46s remaining: 3.84s
55: learn: 2498.0703432 test: 2507.9393867 best: 2507.9393867 (55) total: 1.48s remaining: 3.81s
56: learn: 2475.2419540 test: 2485.0136683 best: 2485.0136683 (56) total: 1.51s remaining: 3.79s
57: learn: 2453.0587707 test: 2462.4480370 best: 2462.4480370 (57) total: 1.54s remaining: 3.76s
58: learn: 2430.9799399 test: 2440.1740864 best: 2440.1740864 (58) total: 1.56s remaining: 3.73s
59: learn: 2411.1951542 test: 2419.8976083 best: 2419.8976083 (59) total: 1.58s remaining: 3.69s
60: learn: 2391.4673937 test: 2399.6594567 best: 2399.6594567 (60) total: 1.61s remaining: 3.67s
61: learn: 2373.7322544 test: 2381.6650650 best: 2381.6650650 (61) total: 1.64s remaining: 3.64s
62: learn: 2356.6075884 test: 2364.0973101 best: 2364.0973101 (62) total: 1.66s remaining: 3.61s
63: learn: 2337.0748217 test: 2344.2602274 best: 2344.2602274 (63) total: 1.69s remaining: 3.58s
64: learn: 2318.2371492 test: 2325.1583089 best: 2325.1583089 (64) total: 1.71s remaining: 3.56s
65: learn: 2302.8652588 test: 2309.4814384 best: 2309.4814384 (65) total: 1.74s remaining: 3.53s
66: learn: 2287.9549709 test: 2294.3660727 best: 2294.3660727 (66) total: 1.76s remaining: 3.5s
67: learn: 2273.9702497 test: 2279.9749035 best: 2279.9749035 (67) total: 1.79s remaining: 3.47s
68: learn: 2259.2751522 test: 2265.1182335 best: 2265.1182335 (68) total: 1.81s remaining: 3.44s
69: learn: 2244.3764286 test: 2249.9193990 best: 2249.9193990 (69) total: 1.84s remaining: 3.41s
70: learn: 2231.3966433 test: 2236.8553931 best: 2236.8553931 (70) total: 1.86s remaining: 3.38s
71: learn: 2218.1943909 test: 2223.3266694 best: 2223.3266694 (71) total: 1.89s remaining: 3.35s
72: learn: 2206.3929932 test: 2211.1754207 best: 2211.1754207 (72) total: 1.91s remaining: 3.33s

72: learn: 2200.8525502 test: 2211.1754207 best: 2211.1754207 (72) total: 1.91s remaining: 0.30s
73: learn: 2194.9344032 test: 2199.5935710 best: 2199.5935710 (73) total: 1.94s remaining: 3.3s
74: learn: 2183.2200291 test: 2187.5963089 best: 2187.5963089 (74) total: 1.96s remaining: 3.27s
75: learn: 2171.1943942 test: 2175.2500524 best: 2175.2500524 (75) total: 1.99s remaining: 3.24s
76: learn: 2160.5877432 test: 2164.2756713 best: 2164.2756713 (76) total: 2.01s remaining: 3.21s
77: learn: 2151.0527850 test: 2154.5673708 best: 2154.5673708 (77) total: 2.04s remaining: 3.19s
78: learn: 2139.8763850 test: 2142.9600348 best: 2142.9600348 (78) total: 2.06s remaining: 3.15s
79: learn: 2130.4916561 test: 2133.3645610 best: 2133.3645610 (79) total: 2.08s remaining: 3.13s
80: learn: 2121.3467205 test: 2124.0824196 best: 2124.0824196 (80) total: 2.11s remaining: 3.1s
81: learn: 2112.8528044 test: 2115.2513985 best: 2115.2513985 (81) total: 2.14s remaining: 3.08s
82: learn: 2103.7521192 test: 2105.9333791 best: 2105.9333791 (82) total: 2.16s remaining: 3.05s
83: learn: 2095.8855832 test: 2097.8578556 best: 2097.8578556 (83) total: 2.19s remaining: 3.02s
84: learn: 2088.4382133 test: 2090.2997153 best: 2090.2997153 (84) total: 2.21s remaining: 3s
85: learn: 2081.3796244 test: 2083.1183984 best: 2083.1183984 (85) total: 2.24s remaining: 2.97s
86: learn: 2072.8478517 test: 2074.4305621 best: 2074.4305621 (86) total: 2.26s remaining: 2.94s
87: learn: 2066.1761457 test: 2067.6277053 best: 2067.6277053 (87) total: 2.29s remaining: 2.91s
88: learn: 2058.0121205 test: 2059.3148146 best: 2059.3148146 (88) total: 2.31s remaining: 2.89s
89: learn: 2051.4569199 test: 2052.5553021 best: 2052.5553021 (89) total: 2.34s remaining: 2.86s
90: learn: 2045.1037922 test: 2045.9843985 best: 2045.9843985 (90) total: 2.37s remaining: 2.83s
91: learn: 2038.7033980 test: 2039.5363293 best: 2039.5363293 (91) total: 2.4s remaining: 2.81s
92: learn: 2032.6313141 test: 2033.5241622 best: 2033.5241622 (92) total: 2.42s remaining: 2.79s
93: learn: 2026.5973411 test: 2027.3770669 best: 2027.3770669 (93) total: 2.44s remaining: 2.76s
94: learn: 2021.0487298 test: 2021.5650385 best: 2021.5650385 (94) total: 2.47s remaining: 2.73s
95: learn: 2014.6341932 test: 2014.9848853 best: 2014.9848853 (95) total: 2.49s remaining: 2.7s
96: learn: 2009.7061149 test: 2009.6857619 best: 2009.6857619 (96) total: 2.52s remaining: 2.67s
97: learn: 2003.7457826 test: 2003.6755372 best: 2003.6755372 (97) total: 2.54s remaining: 2.65s
98: learn: 1999.1293893 test: 1998.8443995 best: 1998.8443995 (98) total: 2.56s remaining: 2.62s
99: learn: 1994.5047977 test: 1994.1442035 best: 1994.1442035 (99) total: 2.59s remaining: 2.59s
100: learn: 1989.8189144 test: 1989.3728647 best: 1989.3728647 (100) total: 2.62s remaining: 2.56s
101: learn: 1985.3641645 test: 1984.6821159 best: 1984.6821159 (101) total: 2.64s remaining: 2.54s
102: learn: 1980.3381511 test: 1979.5418714 best: 1979.5418714 (102) total: 2.67s remaining: 2.51s
103: learn: 1975.7385281 test: 1975.0433403 best: 1975.0433403 (103) total: 2.69s remaining: 2.48s
104: learn: 1971.0908314 test: 1970.4066265 best: 1970.4066265 (104) total: 2.71s remaining: 2.46s
105: learn: 1967.3511670 test: 1966.4236155 best: 1966.4236155 (105) total: 2.74s remaining: 2.43s
106: learn: 1963.8042064 test: 1962.7539913 best: 1962.7539913 (106) total: 2.76s remaining: 2.4s
107: learn: 1960.2783239 test: 1959.0652263 best: 1959.0652263 (107) total: 2.79s remaining: 2.37s
108: learn: 1956.8202608 test: 1955.5413619 best: 1955.5413619 (108) total: 2.81s remaining: 2.35s
109: learn: 1953.4792217 test: 1952.1264479 best: 1952.1264479 (109) total: 2.83s remaining: 2.32s
110: learn: 1949.0733471 test: 1947.6599145 best: 1947.6599145 (110) total: 2.86s remaining: 2.29s
111: learn: 1945.6472050 test: 1944.1545862 best: 1944.1545862 (111) total: 2.88s remaining: 2.26s
112: learn: 1942.5389545 test: 1941.0631120 best: 1941.0631120 (112) total: 2.9s remaining: 2.24s
113: learn: 1939.6748638 test: 1937.9272827 best: 1937.9272827 (113) total: 2.93s remaining: 2.21s

114: learn: 1936.2307631 test: 1934.5035615 best: 1934.5035615 (114) total: 2.95s remaining: 2.18s
115: learn: 1932.4980931 test: 1930.7867187 best: 1930.7867187 (115) total: 2.98s remaining: 2.15s
116: learn: 1929.5906199 test: 1927.8848655 best: 1927.8848655 (116) total: 3.01s remaining: 2.13s
117: learn: 1926.5168956 test: 1924.8473019 best: 1924.8473019 (117) total: 3.04s remaining: 2.11s
118: learn: 1923.6892698 test: 1921.8815013 best: 1921.8815013 (118) total: 3.07s remaining: 2.09s
119: learn: 1920.9970259 test: 1919.0804065 best: 1919.0804065 (119) total: 3.1s remaining: 2.06s
120: learn: 1918.7645420 test: 1916.7338811 best: 1916.7338811 (120) total: 3.13s remaining: 2.04s
121: learn: 1916.5335382 test: 1914.5956816 best: 1914.5956816 (121) total: 3.16s remaining: 2.02s
122: learn: 1913.6351540 test: 1911.8366941 best: 1911.8366941 (122) total: 3.19s remaining: 2s
123: learn: 1911.3503152 test: 1909.5229184 best: 1909.5229184 (123) total: 3.22s remaining: 1.97s
124: learn: 1908.8148942 test: 1906.9612544 best: 1906.9612544 (124) total: 3.24s remaining: 1.95s
125: learn: 1906.3210925 test: 1904.4877536 best: 1904.4877536 (125) total: 3.27s remaining: 1.92s
126: learn: 1904.0559596 test: 1902.1760376 best: 1902.1760376 (126) total: 3.29s remaining: 1.89s
127: learn: 1902.0169114 test: 1900.0901899 best: 1900.0901899 (127) total: 3.32s remaining: 1.86s
128: learn: 1899.3372013 test: 1897.6033626 best: 1897.6033626 (128) total: 3.34s remaining: 1.84s
129: learn: 1897.3359983 test: 1895.5792181 best: 1895.5792181 (129) total: 3.36s remaining: 1.81s
130: learn: 1894.5530141 test: 1892.7893163 best: 1892.7893163 (130) total: 3.39s remaining: 1.79s
131: learn: 1891.9370577 test: 1890.1494842 best: 1890.1494842 (131) total: 3.42s remaining: 1.76s
132: learn: 1890.1620303 test: 1888.4932272 best: 1888.4932272 (132) total: 3.44s remaining: 1.73s
133: learn: 1888.3177186 test: 1886.5996758 best: 1886.5996758 (133) total: 3.46s remaining: 1.71s
134: learn: 1886.0284457 test: 1884.3932018 best: 1884.3932018 (134) total: 3.49s remaining: 1.68s
135: learn: 1883.9181717 test: 1882.3530044 best: 1882.3530044 (135) total: 3.51s remaining: 1.65s
136: learn: 1882.0801817 test: 1880.5181620 best: 1880.5181620 (136) total: 3.53s remaining: 1.63s
137: learn: 1879.9882841 test: 1878.4258525 best: 1878.4258525 (137) total: 3.56s remaining: 1.6s
138: learn: 1877.7428595 test: 1876.1846380 best: 1876.1846380 (138) total: 3.58s remaining: 1.57s
139: learn: 1875.9885950 test: 1874.4427504 best: 1874.4427504 (139) total: 3.61s remaining: 1.55s
140: learn: 1874.2721288 test: 1872.7193902 best: 1872.7193902 (140) total: 3.63s remaining: 1.52s
141: learn: 1872.7517425 test: 1871.3617025 best: 1871.3617025 (141) total: 3.65s remaining: 1.49s
142: learn: 1871.1176564 test: 1870.0431119 best: 1870.0431119 (142) total: 3.67s remaining: 1.47s
143: learn: 1869.1070185 test: 1868.0065828 best: 1868.0065828 (143) total: 3.7s remaining: 1.44s
144: learn: 1867.6014836 test: 1866.4845924 best: 1866.4845924 (144) total: 3.72s remaining: 1.41s
145: learn: 1865.7535314 test: 1864.7174739 best: 1864.7174739 (145) total: 3.75s remaining: 1.39s
146: learn: 1864.2873191 test: 1863.1984452 best: 1863.1984452 (146) total: 3.77s remaining: 1.36s
147: learn: 1862.8031813 test: 1861.6913534 best: 1861.6913534 (147) total: 3.79s remaining: 1.33s
148: learn: 1861.3518412 test: 1860.3776048 best: 1860.3776048 (148) total: 3.82s remaining: 1.31s
149: learn: 1860.0771610 test: 1859.1444262 best: 1859.1444262 (149) total: 3.84s remaining: 1.28s
150: learn: 1858.7095505 test: 1857.7874274 best: 1857.7874274 (150) total: 3.86s remaining: 1.25s
151: learn: 1857.0867703 test: 1856.3295883 best: 1856.3295883 (151) total: 3.89s remaining: 1.23s
152: learn: 1855.2544126 test: 1854.4666895 best: 1854.4666895 (152) total: 3.91s remaining: 1.2s
153: learn: 1853.6322436 test: 1853.0170076 best: 1853.0170076 (153) total: 3.94s remaining: 1.18s
154: learn: 1852.3450356 test: 1851.5473540 best: 1851.5473540 (154) total: 3.96s remaining: 1.15s

155: learn: 1850.9959225 test: 1850.2676032 best: 1850.2676032 (155) total: 3.98s remaining: 1.12s
156: learn: 1849.5956406 test: 1848.9565796 best: 1848.9565796 (156) total: 4.01s remaining: 1.1s
157: learn: 1848.4264145 test: 1847.7972693 best: 1847.7972693 (157) total: 4.03s remaining: 1.07s
158: learn: 1847.1359172 test: 1846.4552650 best: 1846.4552650 (158) total: 4.06s remaining: 1.05s
159: learn: 1845.5963429 test: 1844.8942291 best: 1844.8942291 (159) total: 4.09s remaining: 1.02s
160: learn: 1843.6533767 test: 1842.9102060 best: 1842.9102060 (160) total: 4.11s remaining: 997ms
161: learn: 1842.2900783 test: 1841.6592564 best: 1841.6592564 (161) total: 4.14s remaining: 971ms
162: learn: 1841.2621704 test: 1840.8333592 best: 1840.8333592 (162) total: 4.16s remaining: 944ms
163: learn: 1840.3248825 test: 1840.0189689 best: 1840.0189689 (163) total: 4.18s remaining: 918ms
164: learn: 1838.9198061 test: 1838.7690020 best: 1838.7690020 (164) total: 4.21s remaining: 893ms
165: learn: 1837.9151250 test: 1837.8726516 best: 1837.8726516 (165) total: 4.23s remaining: 867ms
166: learn: 1836.6336340 test: 1836.7035991 best: 1836.7035991 (166) total: 4.26s remaining: 841ms
167: learn: 1835.3650087 test: 1835.3896273 best: 1835.3896273 (167) total: 4.29s remaining: 816ms
168: learn: 1834.0572391 test: 1834.0696113 best: 1834.0696113 (168) total: 4.31s remaining: 790ms
169: learn: 1832.9674788 test: 1832.9310824 best: 1832.9310824 (169) total: 4.33s remaining: 764ms
170: learn: 1831.5411136 test: 1831.6447327 best: 1831.6447327 (170) total: 4.36s remaining: 739ms
171: learn: 1830.7183502 test: 1830.6709242 best: 1830.6709242 (171) total: 4.38s remaining: 713ms
172: learn: 1829.5913136 test: 1829.5686744 best: 1829.5686744 (172) total: 4.4s remaining: 687ms
173: learn: 1828.7723155 test: 1828.8173007 best: 1828.8173007 (173) total: 4.42s remaining: 661ms
174: learn: 1827.6859897 test: 1827.7377479 best: 1827.7377479 (174) total: 4.45s remaining: 636ms
175: learn: 1826.6403942 test: 1826.9433080 best: 1826.9433080 (175) total: 4.47s remaining: 610ms
176: learn: 1825.4205885 test: 1825.9112245 best: 1825.9112245 (176) total: 4.5s remaining: 585ms
177: learn: 1824.2206954 test: 1824.6411925 best: 1824.6411925 (177) total: 4.52s remaining: 559ms
178: learn: 1823.3063737 test: 1823.7993282 best: 1823.7993282 (178) total: 4.54s remaining: 533ms
179: learn: 1822.3823810 test: 1822.8110511 best: 1822.8110511 (179) total: 4.57s remaining: 508ms
180: learn: 1821.5663271 test: 1822.0412510 best: 1822.0412510 (180) total: 4.59s remaining: 482ms
181: learn: 1820.3720416 test: 1820.8251173 best: 1820.8251173 (181) total: 4.61s remaining: 456ms
182: learn: 1819.4499923 test: 1820.0054242 best: 1820.0054242 (182) total: 4.64s remaining: 431ms
183: learn: 1817.5810619 test: 1818.1137532 best: 1818.1137532 (183) total: 4.66s remaining: 405ms
184: learn: 1816.7935695 test: 1817.4420580 best: 1817.4420580 (184) total: 4.69s remaining: 380ms
185: learn: 1815.8936790 test: 1816.6027420 best: 1816.6027420 (185) total: 4.71s remaining: 354ms
186: learn: 1815.0762922 test: 1815.7772355 best: 1815.7772355 (186) total: 4.73s remaining: 329ms
187: learn: 1814.1612809 test: 1814.8868996 best: 1814.8868996 (187) total: 4.75s remaining: 303ms
188: learn: 1813.1612254 test: 1813.8912734 best: 1813.8912734 (188) total: 4.78s remaining: 278ms
189: learn: 1812.0893604 test: 1812.8437793 best: 1812.8437793 (189) total: 4.8s remaining: 253ms
190: learn: 1811.2289363 test: 1812.0854014 best: 1812.0854014 (190) total: 4.83s remaining: 227ms
191: learn: 1810.3476194 test: 1811.3036586 best: 1811.3036586 (191) total: 4.85s remaining: 202ms
192: learn: 1809.0228321 test: 1810.1131121 best: 1810.1131121 (192) total: 4.87s remaining: 177ms
193: learn: 1808.2124772 test: 1809.3008618 best: 1809.3008618 (193) total: 4.9s remaining: 151ms
194: learn: 1807.4093401 test: 1808.5046448 best: 1808.5046448 (194) total: 4.92s remaining: 126ms
195: learn: 1806.0599496 test: 1807.4582077 best: 1807.4582077 (195) total: 4.94s remaining: 101ms

196: learn: 1805.3070469 test: 1806.7627108 best: 1806.7627108 (196) total: 4.96s remaining: 75.6ms
197: learn: 1804.2386897 test: 1805.7944639 best: 1805.7944639 (197) total: 4.99s remaining: 50.4ms
198: learn: 1802.5093922 test: 1804.5339386 best: 1804.5339386 (198) total: 5.01s remaining: 25.2ms
199: learn: 1801.8997437 test: 1804.0255615 best: 1804.0255615 (199) total: 5.04s remaining: 0us

bestTest = 1804.025561

bestIteration = 199

88: loss: 1804.0255615 best: 1687.5431737 (81) total: 4m remaining: 18.9s
0: learn: 6386.4907368 test: 6411.9963701 best: 6411.9963701 (0) total: 29.3ms remaining: 5.83s
1: learn: 5855.2051814 test: 5880.5311007 best: 5880.5311007 (1) total: 57.4ms remaining: 5.68s
2: learn: 5382.3746586 test: 5407.3462822 best: 5407.3462822 (2) total: 84.5ms remaining: 5.55s
3: learn: 4964.9458514 test: 4989.4562940 best: 4989.4562940 (3) total: 117ms remaining: 5.75s
4: learn: 4600.1245506 test: 4623.3901092 best: 4623.3901092 (4) total: 146ms remaining: 5.7s
5: learn: 4271.7974969 test: 4293.3856094 best: 4293.3856094 (5) total: 171ms remaining: 5.54s
6: learn: 3978.1148839 test: 3997.8835601 best: 3997.8835601 (6) total: 195ms remaining: 5.38s
7: learn: 3722.7138839 test: 3741.3433098 best: 3741.3433098 (7) total: 221ms remaining: 5.31s
8: learn: 3496.8398188 test: 3513.3481026 best: 3513.3481026 (8) total: 248ms remaining: 5.27s
9: learn: 3293.4342222 test: 3308.7678804 best: 3308.7678804 (9) total: 272ms remaining: 5.17s
10: learn: 3117.2854759 test: 3131.8548819 best: 3131.8548819 (10) total: 296ms remaining: 5.09s
11: learn: 2963.0224170 test: 2975.9637313 best: 2975.9637313 (11) total: 321ms remaining: 5.03s
12: learn: 2830.0710675 test: 2841.5017247 best: 2841.5017247 (12) total: 351ms remaining: 5.05s
13: learn: 2715.5482236 test: 2725.5425050 best: 2725.5425050 (13) total: 377ms remaining: 5s
14: learn: 2612.8125735 test: 2621.6008253 best: 2621.6008253 (14) total: 400ms remaining: 4.93s
15: learn: 2528.7864262 test: 2536.9840093 best: 2536.9840093 (15) total: 426ms remaining: 4.9s
16: learn: 2452.6874381 test: 2459.6859152 best: 2459.6859152 (16) total: 451ms remaining: 4.86s
17: learn: 2388.1852923 test: 2395.4223898 best: 2395.4223898 (17) total: 475ms remaining: 4.8s
18: learn: 2329.7929959 test: 2335.8968719 best: 2335.8968719 (18) total: 499ms remaining: 4.75s
19: learn: 2272.9148587 test: 2277.4276883 best: 2277.4276883 (19) total: 525ms remaining: 4.73s
20: learn: 2221.7195707 test: 2224.9617543 best: 2224.9617543 (20) total: 549ms remaining: 4.68s
21: learn: 2183.1321532 test: 2184.5456658 best: 2184.5456658 (21) total: 573ms remaining: 4.64s
22: learn: 2142.6369687 test: 2143.1245211 best: 2143.1245211 (22) total: 597ms remaining: 4.6s
23: learn: 2111.9967788 test: 2111.2648752 best: 2111.2648752 (23) total: 623ms remaining: 4.57s
24: learn: 2086.4336511 test: 2084.7557596 best: 2084.7557596 (24) total: 647ms remaining: 4.53s
25: learn: 2062.1196787 test: 2059.8737662 best: 2059.8737662 (25) total: 670ms remaining: 4.49s
26: learn: 2039.5139542 test: 2036.5882456 best: 2036.5882456 (26) total: 693ms remaining: 4.44s
27: learn: 2019.5477497 test: 2016.7811757 best: 2016.7811757 (27) total: 717ms remaining: 4.4s
28: learn: 2003.0909272 test: 2000.2601540 best: 2000.2601540 (28) total: 744ms remaining: 4.39s
29: learn: 1987.9007701 test: 1984.7180957 best: 1984.7180957 (29) total: 768ms remaining: 4.35s
30: learn: 1971.7318297 test: 1968.4050603 best: 1968.4050603 (30) total: 792ms remaining: 4.32s
31: learn: 1959.5433357 test: 1956.0250535 best: 1956.0250535 (31) total: 816ms remaining: 4.28s
32: learn: 1948.4066954 test: 1944.6304879 best: 1944.6304879 (32) total: 840ms remaining: 4.25s

33: learn: 1938.3965727 test: 1934.6378425 best: 1934.6378425 (33) total: 862ms remaining: 4.21s
34: learn: 1928.6528387 test: 1924.3535101 best: 1924.3535101 (34) total: 886ms remaining: 4.18s
35: learn: 1919.4446338 test: 1915.7017293 best: 1915.7017293 (35) total: 910ms remaining: 4.15s
36: learn: 1910.3805867 test: 1906.6628058 best: 1906.6628058 (36) total: 937ms remaining: 4.13s
37: learn: 1902.6253312 test: 1898.6819360 best: 1898.6819360 (37) total: 960ms remaining: 4.09s
38: learn: 1895.8963106 test: 1892.2166797 best: 1892.2166797 (38) total: 981ms remaining: 4.05s
39: learn: 1889.5880305 test: 1886.4813671 best: 1886.4813671 (39) total: 1s remaining: 4.02s
40: learn: 1883.8415784 test: 1880.8712730 best: 1880.8712730 (40) total: 1.03s remaining: 4s
41: learn: 1878.4613616 test: 1875.7007876 best: 1875.7007876 (41) total: 1.05s remaining: 3.96s
42: learn: 1872.6016542 test: 1869.8810475 best: 1869.8810475 (42) total: 1.08s remaining: 3.93s
43: learn: 1867.8293492 test: 1864.9851209 best: 1864.9851209 (43) total: 1.1s remaining: 3.89s
44: learn: 1861.2313603 test: 1859.0981682 best: 1859.0981682 (44) total: 1.13s remaining: 3.89s
45: learn: 1855.4352462 test: 1853.7281072 best: 1853.7281072 (45) total: 1.16s remaining: 3.87s
46: learn: 1850.7020260 test: 1849.3222802 best: 1849.3222802 (46) total: 1.18s remaining: 3.84s
47: learn: 1846.8415537 test: 1845.5991094 best: 1845.5991094 (47) total: 1.2s remaining: 3.81s
48: learn: 1842.3499991 test: 1841.5419681 best: 1841.5419681 (48) total: 1.23s remaining: 3.79s
49: learn: 1837.7218851 test: 1837.0761258 best: 1837.0761258 (49) total: 1.25s remaining: 3.75s
50: learn: 1834.3287158 test: 1833.4006095 best: 1833.4006095 (50) total: 1.27s remaining: 3.72s
51: learn: 1830.6034251 test: 1829.9861393 best: 1829.9861393 (51) total: 1.3s remaining: 3.69s
52: learn: 1827.8984488 test: 1827.0562604 best: 1827.0562604 (52) total: 1.32s remaining: 3.66s
53: learn: 1823.3263805 test: 1822.5054628 best: 1822.5054628 (53) total: 1.34s remaining: 3.64s
54: learn: 1819.3123790 test: 1818.7899840 best: 1818.7899840 (54) total: 1.37s remaining: 3.61s
55: learn: 1815.7013936 test: 1815.0679690 best: 1815.0679690 (55) total: 1.39s remaining: 3.59s
56: learn: 1812.0386997 test: 1812.5213171 best: 1812.5213171 (56) total: 1.42s remaining: 3.56s
57: learn: 1809.4611697 test: 1810.2823680 best: 1810.2823680 (57) total: 1.44s remaining: 3.53s
58: learn: 1806.6468257 test: 1807.4229208 best: 1807.4229208 (58) total: 1.47s remaining: 3.5s
59: learn: 1803.9504771 test: 1805.0042185 best: 1805.0042185 (59) total: 1.49s remaining: 3.47s
60: learn: 1801.2749099 test: 1802.8920271 best: 1802.8920271 (60) total: 1.51s remaining: 3.45s
61: learn: 1798.3553353 test: 1800.4166297 best: 1800.4166297 (61) total: 1.54s remaining: 3.43s
62: learn: 1795.6865485 test: 1798.0081341 best: 1798.0081341 (62) total: 1.56s remaining: 3.4s
63: learn: 1792.7396285 test: 1795.9024603 best: 1795.9024603 (63) total: 1.59s remaining: 3.38s
64: learn: 1790.4570860 test: 1793.7850243 best: 1793.7850243 (64) total: 1.61s remaining: 3.35s
65: learn: 1785.9938742 test: 1790.9481866 best: 1790.9481866 (65) total: 1.64s remaining: 3.33s
66: learn: 1783.7971046 test: 1788.9872065 best: 1788.9872065 (66) total: 1.66s remaining: 3.3s
67: learn: 1781.1546639 test: 1786.3170865 best: 1786.3170865 (67) total: 1.69s remaining: 3.27s
68: learn: 1777.6314654 test: 1783.1066338 best: 1783.1066338 (68) total: 1.71s remaining: 3.25s
69: learn: 1773.6954421 test: 1779.5654995 best: 1779.5654995 (69) total: 1.74s remaining: 3.23s
70: learn: 1771.1560503 test: 1777.0025273 best: 1777.0025273 (70) total: 1.76s remaining: 3.2s
71: learn: 1768.7276962 test: 1775.5607706 best: 1775.5607706 (71) total: 1.78s remaining: 3.17s
72: learn: 1766.0730117 test: 1773.2028752 best: 1773.2028752 (72) total: 1.81s remaining: 3.15s
73: learn: 1764.3085796 test: 1771.3376842 best: 1771.3376842 (73) total: 1.83s remaining: 3.12s

74: learn: 1762.9665005 test: 1770.1823173 best: 1770.1823173 (74) total: 1.85s remaining: 3.09s
75: learn: 1760.9210837 test: 1768.5189629 best: 1768.5189629 (75) total: 1.88s remaining: 3.06s
76: learn: 1759.6478249 test: 1767.2989662 best: 1767.2989662 (76) total: 1.9s remaining: 3.04s
77: learn: 1756.1243201 test: 1764.4139854 best: 1764.4139854 (77) total: 1.93s remaining: 3.01s
78: learn: 1753.9550186 test: 1762.7242592 best: 1762.7242592 (78) total: 1.95s remaining: 2.98s
79: learn: 1751.9915694 test: 1761.0753523 best: 1761.0753523 (79) total: 1.97s remaining: 2.96s
80: learn: 1750.1542263 test: 1759.5375017 best: 1759.5375017 (80) total: 2s remaining: 2.93s
81: learn: 1748.1481938 test: 1757.6470003 best: 1757.6470003 (81) total: 2.02s remaining: 2.91s
82: learn: 1745.2108348 test: 1754.9420408 best: 1754.9420408 (82) total: 2.05s remaining: 2.89s
83: learn: 1743.8383519 test: 1753.8528942 best: 1753.8528942 (83) total: 2.08s remaining: 2.87s
84: learn: 1742.2869061 test: 1752.3697218 best: 1752.3697218 (84) total: 2.1s remaining: 2.84s
85: learn: 1740.8936048 test: 1751.6933133 best: 1751.6933133 (85) total: 2.12s remaining: 2.81s
86: learn: 1739.2850499 test: 1750.1931346 best: 1750.1931346 (86) total: 2.15s remaining: 2.79s
87: learn: 1737.7843847 test: 1748.7334918 best: 1748.7334918 (87) total: 2.17s remaining: 2.77s
88: learn: 1736.2181967 test: 1747.2502802 best: 1747.2502802 (88) total: 2.2s remaining: 2.74s
89: learn: 1735.0205442 test: 1746.4557955 best: 1746.4557955 (89) total: 2.22s remaining: 2.72s
90: learn: 1733.0783668 test: 1744.4941055 best: 1744.4941055 (90) total: 2.25s remaining: 2.7s
91: learn: 1731.8081349 test: 1743.7152847 best: 1743.7152847 (91) total: 2.27s remaining: 2.67s
92: learn: 1730.8945929 test: 1742.9141149 best: 1742.9141149 (92) total: 2.29s remaining: 2.64s
93: learn: 1729.4868331 test: 1741.6003113 best: 1741.6003113 (93) total: 2.32s remaining: 2.61s
94: learn: 1727.3406029 test: 1739.8756925 best: 1739.8756925 (94) total: 2.34s remaining: 2.59s
95: learn: 1726.2921432 test: 1739.1758180 best: 1739.1758180 (95) total: 2.37s remaining: 2.56s
96: learn: 1723.9143081 test: 1737.5229639 best: 1737.5229639 (96) total: 2.39s remaining: 2.54s
97: learn: 1721.9186518 test: 1735.9706281 best: 1735.9706281 (97) total: 2.42s remaining: 2.52s
98: learn: 1720.5215279 test: 1735.1526626 best: 1735.1526626 (98) total: 2.44s remaining: 2.49s
99: learn: 1719.0150900 test: 1734.1082818 best: 1734.1082818 (99) total: 2.46s remaining: 2.46s
100: learn: 1717.8822613 test: 1733.1128985 best: 1733.1128985 (100) total: 2.49s remaining: 2.44s
101: learn: 1716.5053808 test: 1731.7836509 best: 1731.7836509 (101) total: 2.52s remaining: 2.42s
102: learn: 1714.1948306 test: 1729.4937459 best: 1729.4937459 (102) total: 2.54s remaining: 2.39s
103: learn: 1713.0874305 test: 1728.6118527 best: 1728.6118527 (103) total: 2.56s remaining: 2.37s
104: learn: 1712.2362612 test: 1727.8216001 best: 1727.8216001 (104) total: 2.58s remaining: 2.34s
105: learn: 1709.7157051 test: 1726.5817307 best: 1726.5817307 (105) total: 2.61s remaining: 2.32s
106: learn: 1708.6700720 test: 1725.6584797 best: 1725.6584797 (106) total: 2.63s remaining: 2.29s
107: learn: 1707.4634095 test: 1724.4851361 best: 1724.4851361 (107) total: 2.66s remaining: 2.27s
108: learn: 1706.0929874 test: 1723.9065693 best: 1723.9065693 (108) total: 2.69s remaining: 2.24s
109: learn: 1705.1423217 test: 1723.2480592 best: 1723.2480592 (109) total: 2.72s remaining: 2.23s
110: learn: 1703.6073284 test: 1721.7992883 best: 1721.7992883 (110) total: 2.75s remaining: 2.2s
111: learn: 1702.7903472 test: 1720.9736385 best: 1720.9736385 (111) total: 2.77s remaining: 2.18s
112: learn: 1701.1603766 test: 1719.5843239 best: 1719.5843239 (112) total: 2.8s remaining: 2.15s
113: learn: 1699.7424669 test: 1718.5640282 best: 1718.5640282 (113) total: 2.83s remaining: 2.13s
114: learn: 1698.6701809 test: 1717.7725175 best: 1717.7725175 (114) total: 2.85s remaining: 2.11s

115: learn: 1697.4468478 test: 1716.9640428 best: 1716.9640428 (115) total: 2.88s remaining: 2.08s
116: learn: 1696.0896658 test: 1715.9657558 best: 1715.9657558 (116) total: 2.91s remaining: 2.06s
117: learn: 1694.7221271 test: 1714.9932310 best: 1714.9932310 (117) total: 2.93s remaining: 2.04s
118: learn: 1693.4305137 test: 1714.2293415 best: 1714.2293415 (118) total: 2.96s remaining: 2.01s
119: learn: 1691.2099738 test: 1712.7875820 best: 1712.7875820 (119) total: 2.98s remaining: 1.99s
120: learn: 1690.0398418 test: 1711.6794615 best: 1711.6794615 (120) total: 3.01s remaining: 1.97s
121: learn: 1688.6944144 test: 1710.3936844 best: 1710.3936844 (121) total: 3.04s remaining: 1.94s
122: learn: 1687.3664468 test: 1709.7037760 best: 1709.7037760 (122) total: 3.06s remaining: 1.92s
123: learn: 1686.6377705 test: 1709.3334301 best: 1709.3334301 (123) total: 3.09s remaining: 1.89s
124: learn: 1685.5921240 test: 1708.2984266 best: 1708.2984266 (124) total: 3.12s remaining: 1.87s
125: learn: 1684.1600879 test: 1707.1810845 best: 1707.1810845 (125) total: 3.15s remaining: 1.85s
126: learn: 1683.0749959 test: 1706.2051123 best: 1706.2051123 (126) total: 3.17s remaining: 1.82s
127: learn: 1681.8391593 test: 1705.6350862 best: 1705.6350862 (127) total: 3.19s remaining: 1.8s
128: learn: 1680.5338594 test: 1704.9989090 best: 1704.9989090 (128) total: 3.22s remaining: 1.77s
129: learn: 1679.4607887 test: 1704.1459193 best: 1704.1459193 (129) total: 3.24s remaining: 1.75s
130: learn: 1677.9342511 test: 1703.1580838 best: 1703.1580838 (130) total: 3.27s remaining: 1.72s
131: learn: 1676.7585993 test: 1702.1358445 best: 1702.1358445 (131) total: 3.29s remaining: 1.69s
132: learn: 1675.2693533 test: 1701.1905441 best: 1701.1905441 (132) total: 3.31s remaining: 1.67s
133: learn: 1674.0184594 test: 1700.1708170 best: 1700.1708170 (133) total: 3.34s remaining: 1.64s
134: learn: 1672.7795175 test: 1699.4327842 best: 1699.4327842 (134) total: 3.36s remaining: 1.62s
135: learn: 1671.4270605 test: 1698.1039955 best: 1698.1039955 (135) total: 3.38s remaining: 1.59s
136: learn: 1670.1389300 test: 1697.3859495 best: 1697.3859495 (136) total: 3.41s remaining: 1.57s
137: learn: 1668.6525425 test: 1696.2937553 best: 1696.2937553 (137) total: 3.43s remaining: 1.54s
138: learn: 1667.6586925 test: 1695.2787866 best: 1695.2787866 (138) total: 3.45s remaining: 1.51s
139: learn: 1666.8316179 test: 1694.7224494 best: 1694.7224494 (139) total: 3.48s remaining: 1.49s
140: learn: 1665.8668318 test: 1693.9899811 best: 1693.9899811 (140) total: 3.5s remaining: 1.47s
141: learn: 1665.0057060 test: 1693.3304417 best: 1693.3304417 (141) total: 3.53s remaining: 1.44s
142: learn: 1664.1219323 test: 1692.9248697 best: 1692.9248697 (142) total: 3.55s remaining: 1.42s
143: learn: 1663.1076235 test: 1692.3675861 best: 1692.3675861 (143) total: 3.57s remaining: 1.39s
144: learn: 1661.2458554 test: 1690.9488950 best: 1690.9488950 (144) total: 3.6s remaining: 1.36s
145: learn: 1660.2684284 test: 1689.9198799 best: 1689.9198799 (145) total: 3.63s remaining: 1.34s
146: learn: 1659.2843623 test: 1689.5587005 best: 1689.5587005 (146) total: 3.65s remaining: 1.31s
147: learn: 1658.1671261 test: 1688.9266927 best: 1688.9266927 (147) total: 3.67s remaining: 1.29s
148: learn: 1657.2118522 test: 1688.2284695 best: 1688.2284695 (148) total: 3.69s remaining: 1.26s
149: learn: 1656.3185325 test: 1687.5431737 best: 1687.5431737 (149) total: 3.72s remaining: 1.24s
150: learn: 1655.3192404 test: 1687.0995470 best: 1687.0995470 (150) total: 3.74s remaining: 1.21s
151: learn: 1654.2953931 test: 1686.8241812 best: 1686.8241812 (151) total: 3.76s remaining: 1.19s
152: learn: 1653.0158932 test: 1686.1357110 best: 1686.1357110 (152) total: 3.78s remaining: 1.16s
153: learn: 1651.8128361 test: 1685.2215204 best: 1685.2215204 (153) total: 3.81s remaining: 1.14s
154: learn: 1650.9576302 test: 1684.5133326 best: 1684.5133326 (154) total: 3.83s remaining: 1.11s
155: learn: 1650.1883438 test: 1683.8418818 best: 1683.8418818 (155) total: 3.85s remaining: 1.09s
156: learn: 1648.2751822 test: 1682.8871812 best: 1682.8871812 (156) total: 3.88s remaining: 1.06s

156: learn: 1649.2751662 test: 1683.2071913 best: 1683.2071913 (156) total: 3.88s remaining: 1.06s
157: learn: 1648.0903795 test: 1682.6127654 best: 1682.6127654 (157) total: 3.9s remaining: 1.04s
158: learn: 1647.3721765 test: 1682.0872091 best: 1682.0872091 (158) total: 3.93s remaining: 1.01s
159: learn: 1646.5661404 test: 1681.3716023 best: 1681.3716023 (159) total: 3.95s remaining: 988ms
160: learn: 1645.7957438 test: 1680.8781352 best: 1680.8781352 (160) total: 3.97s remaining: 962ms
161: learn: 1644.9931823 test: 1680.6019774 best: 1680.6019774 (161) total: 4s remaining: 937ms
162: learn: 1643.9247899 test: 1680.0815917 best: 1680.0815917 (162) total: 4.02s remaining: 913ms
163: learn: 1642.6737662 test: 1679.5673161 best: 1679.5673161 (163) total: 4.04s remaining: 888ms
164: learn: 1641.0522570 test: 1678.2535990 best: 1678.2535990 (164) total: 4.07s remaining: 864ms
165: learn: 1640.3453415 test: 1677.7812404 best: 1677.7812404 (165) total: 4.1s remaining: 839ms
166: learn: 1639.0290484 test: 1677.2938942 best: 1677.2938942 (166) total: 4.12s remaining: 815ms
167: learn: 1638.2041281 test: 1676.7472973 best: 1676.7472973 (167) total: 4.14s remaining: 790ms
168: learn: 1637.6777951 test: 1676.3347898 best: 1676.3347898 (168) total: 4.17s remaining: 765ms
169: learn: 1636.9373985 test: 1675.7224877 best: 1675.7224877 (169) total: 4.19s remaining: 740ms
170: learn: 1636.0128668 test: 1675.0569602 best: 1675.0569602 (170) total: 4.22s remaining: 715ms
171: learn: 1635.2677023 test: 1674.4299901 best: 1674.4299901 (171) total: 4.24s remaining: 691ms
172: learn: 1634.1843668 test: 1673.6520777 best: 1673.6520777 (172) total: 4.26s remaining: 666ms
173: learn: 1632.5310600 test: 1672.7533434 best: 1672.7533434 (173) total: 4.29s remaining: 641ms
174: learn: 1631.8234176 test: 1672.4249615 best: 1672.4249615 (174) total: 4.31s remaining: 616ms
175: learn: 1631.0730403 test: 1672.1606944 best: 1672.1606944 (175) total: 4.34s remaining: 591ms
176: learn: 1630.2953620 test: 1671.9001994 best: 1671.9001994 (176) total: 4.36s remaining: 566ms
177: learn: 1628.9448877 test: 1671.1946504 best: 1671.1946504 (177) total: 4.38s remaining: 542ms
178: learn: 1628.3506244 test: 1670.7985371 best: 1670.7985371 (178) total: 4.41s remaining: 517ms
179: learn: 1627.0490205 test: 1669.9978526 best: 1669.9978526 (179) total: 4.43s remaining: 492ms
180: learn: 1626.0413236 test: 1669.6322169 best: 1669.6322169 (180) total: 4.45s remaining: 467ms
181: learn: 1625.3064774 test: 1669.1016532 best: 1669.1016532 (181) total: 4.47s remaining: 443ms
182: learn: 1624.7903971 test: 1668.6102071 best: 1668.6102071 (182) total: 4.5s remaining: 418ms
183: learn: 1623.4334783 test: 1667.6657850 best: 1667.6657850 (183) total: 4.52s remaining: 393ms
184: learn: 1622.5395329 test: 1667.1168458 best: 1667.1168458 (184) total: 4.54s remaining: 368ms
185: learn: 1621.8239419 test: 1666.8056177 best: 1666.8056177 (185) total: 4.57s remaining: 344ms
186: learn: 1621.1909538 test: 1666.3031945 best: 1666.3031945 (186) total: 4.59s remaining: 319ms
187: learn: 1620.7451741 test: 1665.9335940 best: 1665.9335940 (187) total: 4.61s remaining: 295ms
188: learn: 1619.7669148 test: 1665.1656420 best: 1665.1656420 (188) total: 4.64s remaining: 270ms
189: learn: 1619.2777462 test: 1664.6898557 best: 1664.6898557 (189) total: 4.66s remaining: 245ms
190: learn: 1618.2534562 test: 1664.2729170 best: 1664.2729170 (190) total: 4.69s remaining: 221ms
191: learn: 1617.1893904 test: 1663.9896162 best: 1663.9896162 (191) total: 4.71s remaining: 196ms
192: learn: 1616.2277292 test: 1662.8618252 best: 1662.8618252 (192) total: 4.74s remaining: 172ms
193: learn: 1615.6856473 test: 1662.6675030 best: 1662.6675030 (193) total: 4.76s remaining: 147ms
194: learn: 1614.9547002 test: 1662.2615210 best: 1662.2615210 (194) total: 4.78s remaining: 123ms
195: learn: 1614.3991204 test: 1662.0814599 best: 1662.0814599 (195) total: 4.81s remaining: 98.1ms
196: learn: 1612.9322085 test: 1661.1322904 best: 1661.1322904 (196) total: 4.83s remaining: 73.6ms
197: learn: 1611.6503822 test: 1660.4560965 best: 1660.4560965 (197) total: 4.86s remaining: 49.1ms

198: learn: 1610.8801664 test: 1660.0394047 best: 1660.0394047 (198) total: 4.88s remaining: 24.5ms

199: learn: 1610.0915204 test: 1659.4456750 best: 1659.4456750 (199) total: 4.91s remaining: 0us

bestTest = 1659.445675

bestIteration = 199

89: loss: 1659.4456750 best: 1659.4456750 (89) total: 4m 5s remaining: 16.3s

0: learn: 6802.5132113 test: 6829.8331841 best: 6829.8331841 (0) total: 29.1ms remaining: 5.79s

1: learn: 6628.5971789 test: 6655.6690697 best: 6655.6690697 (1) total: 61.8ms remaining: 6.11s

2: learn: 6460.0535409 test: 6487.0132608 best: 6487.0132608 (2) total: 92.4ms remaining: 6.07s

3: learn: 6298.6880104 test: 6325.9153704 best: 6325.9153704 (3) total: 119ms remaining: 5.82s

4: learn: 6142.5771726 test: 6169.4664935 best: 6169.4664935 (4) total: 145ms remaining: 5.67s

5: learn: 5990.6822079 test: 6017.4188793 best: 6017.4188793 (5) total: 171ms remaining: 5.54s

6: learn: 5843.6786600 test: 5870.4552624 best: 5870.4552624 (6) total: 200ms remaining: 5.52s

7: learn: 5702.6636008 test: 5729.1187348 best: 5729.1187348 (7) total: 226ms remaining: 5.41s

8: learn: 5565.7334838 test: 5591.8355128 best: 5591.8355128 (8) total: 254ms remaining: 5.38s

9: learn: 5432.6565485 test: 5458.4948666 best: 5458.4948666 (9) total: 283ms remaining: 5.37s

10: learn: 5303.8063615 test: 5330.0508204 best: 5330.0508204 (10) total: 307ms remaining: 5.27s

11: learn: 5179.7979665 test: 5205.8720038 best: 5205.8720038 (11) total: 333ms remaining: 5.21s

12: learn: 5061.1137978 test: 5086.9292855 best: 5086.9292855 (12) total: 358ms remaining: 5.16s

13: learn: 4944.2845852 test: 4969.8727975 best: 4969.8727975 (13) total: 386ms remaining: 5.12s

14: learn: 4831.9388682 test: 4857.0944235 best: 4857.0944235 (14) total: 412ms remaining: 5.08s

15: learn: 4724.4802651 test: 4749.4705898 best: 4749.4705898 (15) total: 437ms remaining: 5.02s

16: learn: 4619.6679141 test: 4644.0148905 best: 4644.0148905 (16) total: 463ms remaining: 4.99s

17: learn: 4518.9901907 test: 4543.0890903 best: 4543.0890903 (17) total: 494ms remaining: 5s

18: learn: 4421.4312967 test: 4445.1177178 best: 4445.1177178 (18) total: 519ms remaining: 4.94s

19: learn: 4325.7877041 test: 4349.3110736 best: 4349.3110736 (19) total: 544ms remaining: 4.89s

20: learn: 4233.9258462 test: 4256.9879280 best: 4256.9879280 (20) total: 570ms remaining: 4.86s

21: learn: 4146.4015179 test: 4169.0473297 best: 4169.0473297 (21) total: 596ms remaining: 4.82s

22: learn: 4062.0951059 test: 4084.3788405 best: 4084.3788405 (22) total: 620ms remaining: 4.77s

23: learn: 3979.8153299 test: 4001.8852832 best: 4001.8852832 (23) total: 645ms remaining: 4.73s

24: learn: 3901.9992598 test: 3923.4364775 best: 3923.4364775 (24) total: 669ms remaining: 4.68s

25: learn: 3827.1514478 test: 3848.0587288 best: 3848.0587288 (25) total: 698ms remaining: 4.67s

26: learn: 3755.3107164 test: 3775.9867610 best: 3775.9867610 (26) total: 722ms remaining: 4.63s

27: learn: 3684.6779889 test: 3704.9658167 best: 3704.9658167 (27) total: 746ms remaining: 4.58s

28: learn: 3617.2349854 test: 3637.2726285 best: 3637.2726285 (28) total: 773ms remaining: 4.56s

29: learn: 3552.1677084 test: 3571.8970443 best: 3571.8970443 (29) total: 797ms remaining: 4.52s

30: learn: 3490.2472304 test: 3509.6791875 best: 3509.6791875 (30) total: 821ms remaining: 4.48s

31: learn: 3430.1106575 test: 3449.0855181 best: 3449.0855181 (31) total: 847ms remaining: 4.44s

32: learn: 3370.4838588 test: 3389.0073567 best: 3389.0073567 (32) total: 872ms remaining: 4.41s

33: learn: 3313.5344688 test: 3331.8122047 best: 3331.8122047 (33) total: 899ms remaining: 4.39s

34: learn: 3257.8244236 test: 3275.6019467 best: 3275.6019467 (34) total: 926ms remaining: 4.36s
35: learn: 3204.5413232 test: 3221.9883839 best: 3221.9883839 (35) total: 951ms remaining: 4.33s
36: learn: 3153.1793649 test: 3170.2216561 best: 3170.2216561 (36) total: 980ms remaining: 4.32s
37: learn: 3103.7655057 test: 3120.6180961 best: 3120.6180961 (37) total: 1s remaining: 4.29s
38: learn: 3057.2418999 test: 3073.6743387 best: 3073.6743387 (38) total: 1.03s remaining: 4.26s
39: learn: 3012.9026286 test: 3028.8591843 best: 3028.8591843 (39) total: 1.06s remaining: 4.24s
40: learn: 2970.5039435 test: 2986.0804785 best: 2986.0804785 (40) total: 1.08s remaining: 4.21s
41: learn: 2929.5343827 test: 2944.4208955 best: 2944.4208955 (41) total: 1.11s remaining: 4.19s
42: learn: 2890.4491205 test: 2905.1001098 best: 2905.1001098 (42) total: 1.14s remaining: 4.18s
43: learn: 2851.7133896 test: 2865.7954706 best: 2865.7954706 (43) total: 1.17s remaining: 4.16s
44: learn: 2815.4251563 test: 2829.0800728 best: 2829.0800728 (44) total: 1.2s remaining: 4.13s
45: learn: 2780.1070637 test: 2793.2766900 best: 2793.2766900 (45) total: 1.22s remaining: 4.09s
46: learn: 2746.4935662 test: 2759.2880824 best: 2759.2880824 (46) total: 1.25s remaining: 4.07s
47: learn: 2713.4298949 test: 2725.8764157 best: 2725.8764157 (47) total: 1.27s remaining: 4.04s
48: learn: 2682.8802393 test: 2694.9480855 best: 2694.9480855 (48) total: 1.3s remaining: 4.01s
49: learn: 2652.9209043 test: 2664.8429635 best: 2664.8429635 (49) total: 1.32s remaining: 3.97s
50: learn: 2624.0712260 test: 2635.5494526 best: 2635.5494526 (50) total: 1.35s remaining: 3.94s
51: learn: 2597.2043138 test: 2608.5530367 best: 2608.5530367 (51) total: 1.38s remaining: 3.92s
52: learn: 2571.8364589 test: 2582.7242024 best: 2582.7242024 (52) total: 1.4s remaining: 3.88s
53: learn: 2545.8739191 test: 2556.3888182 best: 2556.3888182 (53) total: 1.42s remaining: 3.85s
54: learn: 2521.6785233 test: 2531.8262507 best: 2531.8262507 (54) total: 1.45s remaining: 3.82s
55: learn: 2498.8226089 test: 2508.6510865 best: 2508.6510865 (55) total: 1.47s remaining: 3.79s
56: learn: 2476.5458037 test: 2485.9340481 best: 2485.9340481 (56) total: 1.5s remaining: 3.76s
57: learn: 2454.2480447 test: 2463.3365753 best: 2463.3365753 (57) total: 1.52s remaining: 3.72s
58: learn: 2432.9855428 test: 2441.5554230 best: 2441.5554230 (58) total: 1.54s remaining: 3.69s
59: learn: 2413.4188743 test: 2421.4930491 best: 2421.4930491 (59) total: 1.57s remaining: 3.67s
60: learn: 2394.4898324 test: 2402.1995405 best: 2402.1995405 (60) total: 1.6s remaining: 3.64s
61: learn: 2375.2290836 test: 2382.5492615 best: 2382.5492615 (61) total: 1.62s remaining: 3.61s
62: learn: 2357.8675889 test: 2364.9731434 best: 2364.9731434 (62) total: 1.65s remaining: 3.58s
63: learn: 2337.9656102 test: 2344.8089020 best: 2344.8089020 (63) total: 1.67s remaining: 3.56s
64: learn: 2319.8821030 test: 2326.4718965 best: 2326.4718965 (64) total: 1.7s remaining: 3.53s
65: learn: 2304.6688336 test: 2311.0730243 best: 2311.0730243 (65) total: 1.72s remaining: 3.5s
66: learn: 2289.6279604 test: 2295.6662972 best: 2295.6662972 (66) total: 1.75s remaining: 3.47s
67: learn: 2274.3174869 test: 2280.0701789 best: 2280.0701789 (67) total: 1.77s remaining: 3.44s
68: learn: 2258.7613104 test: 2264.3003682 best: 2264.3003682 (68) total: 1.8s remaining: 3.42s
69: learn: 2245.2811749 test: 2250.5371950 best: 2250.5371950 (69) total: 1.82s remaining: 3.38s
70: learn: 2233.1741066 test: 2238.2112675 best: 2238.2112675 (70) total: 1.85s remaining: 3.35s
71: learn: 2219.7584236 test: 2224.2725887 best: 2224.2725887 (71) total: 1.87s remaining: 3.33s
72: learn: 2208.1160820 test: 2212.2826234 best: 2212.2826234 (72) total: 1.89s remaining: 3.29s
73: learn: 2197.1915028 test: 2201.1777905 best: 2201.1777905 (73) total: 1.92s remaining: 3.27s
74: learn: 2185.5784468 test: 2189.2739926 best: 2189.2739926 (74) total: 1.95s remaining: 3.25s

75: learn: 2173.7838847 test: 2177.2556261 best: 2177.2556261 (75) total: 1.98s remaining: 3.23s
76: learn: 2163.2976249 test: 2166.5221547 best: 2166.5221547 (76) total: 2s remaining: 3.2s
77: learn: 2153.7210082 test: 2156.7752985 best: 2156.7752985 (77) total: 2.02s remaining: 3.17s
78: learn: 2144.0614781 test: 2146.7823339 best: 2146.7823339 (78) total: 2.05s remaining: 3.14s
79: learn: 2133.0678056 test: 2135.6045016 best: 2135.6045016 (79) total: 2.08s remaining: 3.12s
80: learn: 2124.3788012 test: 2126.7369499 best: 2126.7369499 (80) total: 2.1s remaining: 3.09s
81: learn: 2115.7895303 test: 2118.0569084 best: 2118.0569084 (81) total: 2.13s remaining: 3.06s
82: learn: 2106.2436713 test: 2108.4069307 best: 2108.4069307 (82) total: 2.16s remaining: 3.04s
83: learn: 2098.3425413 test: 2100.3789717 best: 2100.3789717 (83) total: 2.19s remaining: 3.02s
84: learn: 2090.8699842 test: 2092.7217217 best: 2092.7217217 (84) total: 2.21s remaining: 2.99s
85: learn: 2083.3756566 test: 2085.0639161 best: 2085.0639161 (85) total: 2.23s remaining: 2.96s
86: learn: 2074.4530802 test: 2075.8802419 best: 2075.8802419 (86) total: 2.26s remaining: 2.93s
87: learn: 2067.5986740 test: 2068.7829797 best: 2068.7829797 (87) total: 2.29s remaining: 2.91s
88: learn: 2059.6044522 test: 2060.7875778 best: 2060.7875778 (88) total: 2.31s remaining: 2.88s
89: learn: 2052.3493585 test: 2053.3535859 best: 2053.3535859 (89) total: 2.34s remaining: 2.86s
90: learn: 2046.3488635 test: 2047.2038982 best: 2047.2038982 (90) total: 2.36s remaining: 2.83s
91: learn: 2040.3513359 test: 2041.0951814 best: 2041.0951814 (91) total: 2.38s remaining: 2.8s
92: learn: 2034.9041755 test: 2035.6087834 best: 2035.6087834 (92) total: 2.41s remaining: 2.77s
93: learn: 2028.2450947 test: 2028.8310497 best: 2028.8310497 (93) total: 2.43s remaining: 2.75s
94: learn: 2023.1050182 test: 2023.4531959 best: 2023.4531959 (94) total: 2.46s remaining: 2.72s
95: learn: 2016.7110722 test: 2016.8754524 best: 2016.8754524 (95) total: 2.49s remaining: 2.69s
96: learn: 2011.6634107 test: 2011.5284292 best: 2011.5284292 (96) total: 2.51s remaining: 2.67s
97: learn: 2006.3775515 test: 2006.4331085 best: 2006.4331085 (97) total: 2.54s remaining: 2.64s
98: learn: 2001.3037075 test: 2001.2900135 best: 2001.2900135 (98) total: 2.56s remaining: 2.61s
99: learn: 1996.6450421 test: 1996.4879632 best: 1996.4879632 (99) total: 2.59s remaining: 2.59s
100: learn: 1991.9916718 test: 1991.7392669 best: 1991.7392669 (100) total: 2.61s remaining: 2.56s
101: learn: 1987.0376952 test: 1986.5993359 best: 1986.5993359 (101) total: 2.64s remaining: 2.53s
102: learn: 1982.0845766 test: 1981.4287928 best: 1981.4287928 (102) total: 2.67s remaining: 2.51s
103: learn: 1976.8901203 test: 1976.1418234 best: 1976.1418234 (103) total: 2.69s remaining: 2.48s
104: learn: 1972.0445027 test: 1971.2330468 best: 1971.2330468 (104) total: 2.71s remaining: 2.46s
105: learn: 1967.7356714 test: 1966.8543970 best: 1966.8543970 (105) total: 2.74s remaining: 2.43s
106: learn: 1964.1032640 test: 1963.0793010 best: 1963.0793010 (106) total: 2.76s remaining: 2.4s
107: learn: 1960.4457210 test: 1959.3317943 best: 1959.3317943 (107) total: 2.78s remaining: 2.37s
108: learn: 1956.9358453 test: 1955.8038613 best: 1955.8038613 (108) total: 2.81s remaining: 2.34s
109: learn: 1952.9365586 test: 1951.7870427 best: 1951.7870427 (109) total: 2.83s remaining: 2.32s
110: learn: 1949.2337995 test: 1947.7713595 best: 1947.7713595 (110) total: 2.86s remaining: 2.29s
111: learn: 1946.0177019 test: 1944.3585462 best: 1944.3585462 (111) total: 2.88s remaining: 2.27s
112: learn: 1942.2682534 test: 1940.5825859 best: 1940.5825859 (112) total: 2.91s remaining: 2.24s
113: learn: 1938.5233960 test: 1936.8788390 best: 1936.8788390 (113) total: 2.93s remaining: 2.21s
114: learn: 1935.1719909 test: 1933.4682789 best: 1933.4682789 (114) total: 2.96s remaining: 2.18s
115: learn: 1931.7310143 test: 1929.8916324 best: 1929.8916324 (115) total: 2.98s remaining: 2.16s
116: learn: 1928.6067579 test: 1926.7542212 best: 1926.7542212 (116) total: 2.01s remaining: 2.14s

116: learn: 1926.6067578 test: 1926.7542313 best: 1926.7542313 (116) total: 3.01s remaining: 2.14s
117: learn: 1925.5142607 test: 1923.6799615 best: 1923.6799615 (117) total: 3.04s remaining: 2.12s
118: learn: 1922.1302400 test: 1920.5787987 best: 1920.5787987 (118) total: 3.08s remaining: 2.1s
119: learn: 1919.3835085 test: 1917.7186877 best: 1917.7186877 (119) total: 3.11s remaining: 2.08s
120: learn: 1916.9353846 test: 1915.3670539 best: 1915.3670539 (120) total: 3.14s remaining: 2.05s
121: learn: 1914.6628743 test: 1913.1415148 best: 1913.1415148 (121) total: 3.17s remaining: 2.03s
122: learn: 1912.2418474 test: 1910.7498226 best: 1910.7498226 (122) total: 3.2s remaining: 2s
123: learn: 1909.7897098 test: 1908.3603636 best: 1908.3603636 (123) total: 3.23s remaining: 1.98s
124: learn: 1907.3658137 test: 1905.7624751 best: 1905.7624751 (124) total: 3.25s remaining: 1.95s
125: learn: 1904.9363912 test: 1903.1503170 best: 1903.1503170 (125) total: 3.28s remaining: 1.93s
126: learn: 1902.9236453 test: 1901.0927512 best: 1901.0927512 (126) total: 3.3s remaining: 1.9s
127: learn: 1900.7555433 test: 1898.8985381 best: 1898.8985381 (127) total: 3.33s remaining: 1.87s
128: learn: 1898.0826387 test: 1896.3995386 best: 1896.3995386 (128) total: 3.35s remaining: 1.84s
129: learn: 1895.9159358 test: 1894.1551184 best: 1894.1551184 (129) total: 3.38s remaining: 1.82s
130: learn: 1893.9063620 test: 1892.0517545 best: 1892.0517545 (130) total: 3.4s remaining: 1.79s
131: learn: 1891.7658089 test: 1889.9791443 best: 1889.9791443 (131) total: 3.43s remaining: 1.76s
132: learn: 1889.9742107 test: 1888.2483767 best: 1888.2483767 (132) total: 3.45s remaining: 1.74s
133: learn: 1888.1030272 test: 1886.3406804 best: 1886.3406804 (133) total: 3.48s remaining: 1.71s
134: learn: 1885.8718411 test: 1884.2059700 best: 1884.2059700 (134) total: 3.5s remaining: 1.69s
135: learn: 1883.7890984 test: 1882.2879224 best: 1882.2879224 (135) total: 3.52s remaining: 1.66s
136: learn: 1881.5956565 test: 1880.0551320 best: 1880.0551320 (136) total: 3.55s remaining: 1.63s
137: learn: 1879.6002729 test: 1878.1050113 best: 1878.1050113 (137) total: 3.57s remaining: 1.6s
138: learn: 1877.5965753 test: 1876.1932322 best: 1876.1932322 (138) total: 3.6s remaining: 1.58s
139: learn: 1876.0434038 test: 1874.6719284 best: 1874.6719284 (139) total: 3.62s remaining: 1.55s
140: learn: 1874.1803025 test: 1872.7659651 best: 1872.7659651 (140) total: 3.65s remaining: 1.53s
141: learn: 1872.6145186 test: 1871.3569335 best: 1871.3569335 (141) total: 3.67s remaining: 1.5s
142: learn: 1870.8987981 test: 1869.7242115 best: 1869.7242115 (142) total: 3.7s remaining: 1.47s
143: learn: 1869.1596456 test: 1868.0815474 best: 1868.0815474 (143) total: 3.72s remaining: 1.45s
144: learn: 1867.6157483 test: 1866.5953392 best: 1866.5953392 (144) total: 3.74s remaining: 1.42s
145: learn: 1865.7903370 test: 1864.8550488 best: 1864.8550488 (145) total: 3.77s remaining: 1.39s
146: learn: 1864.0220995 test: 1863.3560572 best: 1863.3560572 (146) total: 3.79s remaining: 1.37s
147: learn: 1862.5243682 test: 1861.7191496 best: 1861.7191496 (147) total: 3.81s remaining: 1.34s
148: learn: 1861.1843807 test: 1860.4562973 best: 1860.4562973 (148) total: 3.84s remaining: 1.31s
149: learn: 1859.9446961 test: 1859.2417466 best: 1859.2417466 (149) total: 3.86s remaining: 1.29s
150: learn: 1858.2530417 test: 1857.5425120 best: 1857.5425120 (150) total: 3.89s remaining: 1.26s
151: learn: 1856.9007182 test: 1856.3118719 best: 1856.3118719 (151) total: 3.91s remaining: 1.23s
152: learn: 1855.5203211 test: 1854.9078079 best: 1854.9078079 (152) total: 3.93s remaining: 1.21s
153: learn: 1854.0351517 test: 1853.4614628 best: 1853.4614628 (153) total: 3.96s remaining: 1.18s
154: learn: 1852.7981773 test: 1852.2873805 best: 1852.2873805 (154) total: 3.98s remaining: 1.15s
155: learn: 1851.3574292 test: 1850.8787459 best: 1850.8787459 (155) total: 4s remaining: 1.13s
156: learn: 1849.9461571 test: 1849.6523061 best: 1849.6523061 (156) total: 4.03s remaining: 1.1s
157: learn: 1848.1623098 test: 1847.7895310 best: 1847.7895310 (157) total: 4.05s remaining: 1.08s

158: learn: 1846.6997139 test: 1846.4726724 best: 1846.4726724 (158) total: 4.08s remaining: 1.05s
159: learn: 1845.3122510 test: 1844.9783824 best: 1844.9783824 (159) total: 4.1s remaining: 1.02s
160: learn: 1844.0604266 test: 1843.9367712 best: 1843.9367712 (160) total: 4.12s remaining: 998ms
161: learn: 1842.8148231 test: 1842.7464395 best: 1842.7464395 (161) total: 4.15s remaining: 974ms
162: learn: 1841.7347714 test: 1841.7269031 best: 1841.7269031 (162) total: 4.18s remaining: 949ms
163: learn: 1840.3447922 test: 1840.4012672 best: 1840.4012672 (163) total: 4.2s remaining: 922ms
164: learn: 1838.7823755 test: 1838.8981344 best: 1838.8981344 (164) total: 4.23s remaining: 897ms
165: learn: 1837.5621429 test: 1837.6712150 best: 1837.6712150 (165) total: 4.25s remaining: 871ms
166: learn: 1836.3577127 test: 1836.5630737 best: 1836.5630737 (166) total: 4.28s remaining: 845ms
167: learn: 1835.3610892 test: 1835.4898215 best: 1835.4898215 (167) total: 4.3s remaining: 819ms
168: learn: 1834.1516451 test: 1834.2613736 best: 1834.2613736 (168) total: 4.32s remaining: 793ms
169: learn: 1833.1074238 test: 1833.2914633 best: 1833.2914633 (169) total: 4.35s remaining: 768ms
170: learn: 1831.8831583 test: 1832.2781609 best: 1832.2781609 (170) total: 4.38s remaining: 742ms
171: learn: 1831.0629450 test: 1831.3251233 best: 1831.3251233 (171) total: 4.4s remaining: 716ms
172: learn: 1829.9728946 test: 1830.2355511 best: 1830.2355511 (172) total: 4.42s remaining: 690ms
173: learn: 1829.1544708 test: 1829.5424161 best: 1829.5424161 (173) total: 4.44s remaining: 664ms
174: learn: 1828.2255131 test: 1828.6169192 best: 1828.6169192 (174) total: 4.47s remaining: 638ms
175: learn: 1826.7295781 test: 1827.4662524 best: 1827.4662524 (175) total: 4.49s remaining: 613ms
176: learn: 1825.4190884 test: 1826.3030232 best: 1826.3030232 (176) total: 4.51s remaining: 587ms
177: learn: 1824.2733020 test: 1825.2465238 best: 1825.2465238 (177) total: 4.54s remaining: 561ms
178: learn: 1822.7862240 test: 1823.8989612 best: 1823.8989612 (178) total: 4.57s remaining: 536ms
179: learn: 1821.7423078 test: 1822.8373347 best: 1822.8373347 (179) total: 4.59s remaining: 510ms
180: learn: 1820.8982122 test: 1822.0872095 best: 1822.0872095 (180) total: 4.61s remaining: 484ms
181: learn: 1820.0801804 test: 1821.2082145 best: 1821.2082145 (181) total: 4.63s remaining: 458ms
182: learn: 1818.8170440 test: 1819.9801756 best: 1819.9801756 (182) total: 4.66s remaining: 433ms
183: learn: 1817.5781152 test: 1818.8118496 best: 1818.8118496 (183) total: 4.68s remaining: 407ms
184: learn: 1816.5821140 test: 1817.8894337 best: 1817.8894337 (184) total: 4.71s remaining: 382ms
185: learn: 1815.7109687 test: 1817.0125632 best: 1817.0125632 (185) total: 4.73s remaining: 356ms
186: learn: 1814.9026933 test: 1816.2511130 best: 1816.2511130 (186) total: 4.76s remaining: 331ms
187: learn: 1813.9120670 test: 1815.3125743 best: 1815.3125743 (187) total: 4.78s remaining: 305ms
188: learn: 1812.9582631 test: 1814.4401574 best: 1814.4401574 (188) total: 4.8s remaining: 280ms
189: learn: 1812.0254719 test: 1813.5039016 best: 1813.5039016 (189) total: 4.83s remaining: 254ms
190: learn: 1811.2580945 test: 1812.9122969 best: 1812.9122969 (190) total: 4.85s remaining: 229ms
191: learn: 1810.3867465 test: 1812.1241661 best: 1812.1241661 (191) total: 4.88s remaining: 203ms
192: learn: 1809.4279693 test: 1811.3111948 best: 1811.3111948 (192) total: 4.9s remaining: 178ms
193: learn: 1808.3190153 test: 1810.2984459 best: 1810.2984459 (193) total: 4.92s remaining: 152ms
194: learn: 1807.5103004 test: 1809.4923916 best: 1809.4923916 (194) total: 4.95s remaining: 127ms
195: learn: 1806.5685299 test: 1808.5449663 best: 1808.5449663 (195) total: 4.98s remaining: 102ms
196: learn: 1805.8052605 test: 1807.8111955 best: 1807.8111955 (196) total: 5s remaining: 76.1ms
197: learn: 1804.7563902 test: 1806.9378033 best: 1806.9378033 (197) total: 5.02s remaining: 50.8ms
198: learn: 1803.2184982 test: 1805.6183167 best: 1805.6183167 (198) total: 5.05s remaining: 25.4ms

199: learn: 1802.5833330 test: 1804.9282631 best: 1804.9282631 (199) total: 5.08s remaining: 0us

bestTest = 1804.928263

bestIteration = 199

90: loss: 1804.9282631 best: 1659.4456750 (89) total: 4m 10s remaining: 13.7s

0: learn: 6386.6495154 test: 6412.1554999 best: 6412.1554999 (0) total: 25.5ms remaining: 5.08s

1: learn: 5855.4837816 test: 5880.8076659 best: 5880.8076659 (1) total: 54.4ms remaining: 5.38s

2: learn: 5382.7115081 test: 5407.6829749 best: 5407.6829749 (2) total: 80.6ms remaining: 5.29s

3: learn: 4962.9454821 test: 4987.4914970 best: 4987.4914970 (3) total: 105ms remaining: 5.16s

4: learn: 4598.5509574 test: 4621.8497555 best: 4621.8497555 (4) total: 130ms remaining: 5.05s

5: learn: 4270.5720637 test: 4292.1863251 best: 4292.1863251 (5) total: 157ms remaining: 5.06s

6: learn: 3978.1572467 test: 3998.3301795 best: 3998.3301795 (6) total: 181ms remaining: 5s

7: learn: 3715.6893109 test: 3734.5731301 best: 3734.5731301 (7) total: 207ms remaining: 4.98s

8: learn: 3490.2399990 test: 3507.0648423 best: 3507.0648423 (8) total: 235ms remaining: 4.98s

9: learn: 3293.2543851 test: 3309.3256555 best: 3309.3256555 (9) total: 263ms remaining: 5s

10: learn: 3117.4686159 test: 3132.8939683 best: 3132.8939683 (10) total: 288ms remaining: 4.94s

11: learn: 2961.5537400 test: 2975.7564172 best: 2975.7564172 (11) total: 313ms remaining: 4.9s

12: learn: 2829.3929255 test: 2841.7574486 best: 2841.7574486 (12) total: 337ms remaining: 4.84s

13: learn: 2714.6004025 test: 2725.0684793 best: 2725.0684793 (13) total: 363ms remaining: 4.82s

14: learn: 2613.6815545 test: 2622.7685989 best: 2622.7685989 (14) total: 387ms remaining: 4.78s

15: learn: 2525.9500103 test: 2534.7813837 best: 2534.7813837 (15) total: 412ms remaining: 4.74s

16: learn: 2451.3248172 test: 2459.2407700 best: 2459.2407700 (16) total: 437ms remaining: 4.7s

17: learn: 2384.8273045 test: 2391.1395344 best: 2391.1395344 (17) total: 465ms remaining: 4.7s

18: learn: 2326.2856440 test: 2331.7888203 best: 2331.7888203 (18) total: 488ms remaining: 4.65s

19: learn: 2273.3423767 test: 2278.2197821 best: 2278.2197821 (19) total: 512ms remaining: 4.61s

20: learn: 2223.0355720 test: 2227.1236726 best: 2227.1236726 (20) total: 536ms remaining: 4.57s

21: learn: 2184.0722833 test: 2187.4378730 best: 2187.4378730 (21) total: 560ms remaining: 4.53s

22: learn: 2149.4944784 test: 2152.0620947 best: 2152.0620947 (22) total: 585ms remaining: 4.5s

23: learn: 2119.3998160 test: 2121.5717732 best: 2121.5717732 (23) total: 608ms remaining: 4.46s

24: learn: 2093.1687967 test: 2094.3983163 best: 2094.3983163 (24) total: 633ms remaining: 4.43s

25: learn: 2063.1916664 test: 2063.6864348 best: 2063.6864348 (25) total: 662ms remaining: 4.43s

26: learn: 2039.4709626 test: 2040.0124519 best: 2040.0124519 (26) total: 687ms remaining: 4.4s

27: learn: 2020.7868224 test: 2021.6384334 best: 2021.6384334 (27) total: 711ms remaining: 4.37s

28: learn: 2003.2387191 test: 2003.5660683 best: 2003.5660683 (28) total: 735ms remaining: 4.33s

29: learn: 1987.3663984 test: 1987.0985391 best: 1987.0985391 (29) total: 757ms remaining: 4.29s

30: learn: 1970.3711013 test: 1969.8635170 best: 1969.8635170 (30) total: 782ms remaining: 4.26s

31: learn: 1958.3210469 test: 1957.4308378 best: 1957.4308378 (31) total: 805ms remaining: 4.22s

32: learn: 1945.3361900 test: 1944.4093531 best: 1944.4093531 (32) total: 829ms remaining: 4.19s

33: learn: 1935.8701145 test: 1935.0912876 best: 1935.0912876 (33) total: 852ms remaining: 4.16s

34: learn: 1926.0877612 test: 1924.8255502 best: 1924.8255502 (34) total: 876ms remaining: 4.13s

35: learn: 1917.7635789 test: 1916.6066459 best: 1916.6066459 (35) total: 899ms remaining: 4.09s
36: learn: 1907.1628785 test: 1907.1498902 best: 1907.1498902 (36) total: 923ms remaining: 4.07s
37: learn: 1899.5083167 test: 1899.9413224 best: 1899.9413224 (37) total: 952ms remaining: 4.06s
38: learn: 1892.1627113 test: 1892.7038378 best: 1892.7038378 (38) total: 974ms remaining: 4.02s
39: learn: 1886.2183948 test: 1887.4853289 best: 1887.4853289 (39) total: 998ms remaining: 3.99s
40: learn: 1880.5736661 test: 1882.0395766 best: 1882.0395766 (40) total: 1.02s remaining: 3.96s
41: learn: 1873.0133305 test: 1875.1367000 best: 1875.1367000 (41) total: 1.05s remaining: 3.97s
42: learn: 1866.9055323 test: 1869.0018957 best: 1869.0018957 (42) total: 1.08s remaining: 3.96s
43: learn: 1861.7180286 test: 1863.4197105 best: 1863.4197105 (43) total: 1.11s remaining: 3.94s
44: learn: 1856.9901139 test: 1858.6458746 best: 1858.6458746 (44) total: 1.13s remaining: 3.91s
45: learn: 1851.5232960 test: 1853.3507260 best: 1853.3507260 (45) total: 1.16s remaining: 3.89s
46: learn: 1846.7337739 test: 1849.1222623 best: 1849.1222623 (46) total: 1.18s remaining: 3.86s
47: learn: 1843.0756055 test: 1846.0741619 best: 1846.0741619 (47) total: 1.21s remaining: 3.83s
48: learn: 1838.8796680 test: 1842.0200938 best: 1842.0200938 (48) total: 1.23s remaining: 3.8s
49: learn: 1834.6005464 test: 1838.1314781 best: 1838.1314781 (49) total: 1.26s remaining: 3.78s
50: learn: 1831.3568826 test: 1834.7754366 best: 1834.7754366 (50) total: 1.29s remaining: 3.76s
51: learn: 1827.6510046 test: 1830.9151790 best: 1830.9151790 (51) total: 1.31s remaining: 3.72s
52: learn: 1823.7946940 test: 1827.2516007 best: 1827.2516007 (52) total: 1.33s remaining: 3.69s
53: learn: 1819.9201654 test: 1823.4956865 best: 1823.4956865 (53) total: 1.36s remaining: 3.67s
54: learn: 1814.9885694 test: 1818.7769773 best: 1818.7769773 (54) total: 1.39s remaining: 3.65s
55: learn: 1811.5132353 test: 1816.2776573 best: 1816.2776573 (55) total: 1.41s remaining: 3.62s
56: learn: 1809.1238142 test: 1813.7551145 best: 1813.7551145 (56) total: 1.43s remaining: 3.59s
57: learn: 1804.8648452 test: 1809.6443087 best: 1809.6443087 (57) total: 1.46s remaining: 3.58s
58: learn: 1802.3354034 test: 1807.2035621 best: 1807.2035621 (58) total: 1.48s remaining: 3.55s
59: learn: 1799.9054144 test: 1804.9516190 best: 1804.9516190 (59) total: 1.51s remaining: 3.52s
60: learn: 1796.9209790 test: 1802.0922535 best: 1802.0922535 (60) total: 1.53s remaining: 3.49s
61: learn: 1793.7308679 test: 1798.9372122 best: 1798.9372122 (61) total: 1.56s remaining: 3.48s
62: learn: 1791.1598672 test: 1796.5057108 best: 1796.5057108 (62) total: 1.58s remaining: 3.45s
63: learn: 1786.9236068 test: 1792.7356909 best: 1792.7356909 (63) total: 1.61s remaining: 3.43s
64: learn: 1784.3150327 test: 1790.4305729 best: 1790.4305729 (64) total: 1.64s remaining: 3.4s
65: learn: 1781.8041771 test: 1788.0814998 best: 1788.0814998 (65) total: 1.66s remaining: 3.37s
66: learn: 1779.6877910 test: 1786.4492795 best: 1786.4492795 (66) total: 1.68s remaining: 3.34s
67: learn: 1777.6592534 test: 1784.6036538 best: 1784.6036538 (67) total: 1.71s remaining: 3.31s
68: learn: 1775.8739395 test: 1783.2620276 best: 1783.2620276 (68) total: 1.73s remaining: 3.28s
69: learn: 1773.1629278 test: 1780.7036669 best: 1780.7036669 (69) total: 1.76s remaining: 3.26s
70: learn: 1771.2290272 test: 1779.2562945 best: 1779.2562945 (70) total: 1.78s remaining: 3.23s
71: learn: 1767.8453583 test: 1776.3369212 best: 1776.3369212 (71) total: 1.8s remaining: 3.2s
72: learn: 1766.2621379 test: 1775.1204223 best: 1775.1204223 (72) total: 1.82s remaining: 3.17s
73: learn: 1764.4631076 test: 1773.6079538 best: 1773.6079538 (73) total: 1.85s remaining: 3.15s
74: learn: 1762.7792194 test: 1772.0481928 best: 1772.0481928 (74) total: 1.87s remaining: 3.12s
75: learn: 1761.3949196 test: 1770.8980533 best: 1770.8980533 (75) total: 1.89s remaining: 3.09s
76: learn: 1759.5927776 test: 1769.4512899 best: 1769.4512899 (76) total: 1.92s remaining: 3.06s

76: learn: 1755.5527770 test: 1765.4512855 best: 1765.4512855 (76) total: 1.92s remaining: 3.08s
77: learn: 1756.7994100 test: 1766.6886504 best: 1766.6886504 (77) total: 1.94s remaining: 3.04s
78: learn: 1754.5045641 test: 1764.3925775 best: 1764.3925775 (78) total: 1.97s remaining: 3.01s
79: learn: 1753.0895384 test: 1763.4297581 best: 1763.4297581 (79) total: 1.99s remaining: 2.98s
80: learn: 1751.4122342 test: 1762.0949757 best: 1762.0949757 (80) total: 2.01s remaining: 2.96s
81: learn: 1749.6396683 test: 1760.5924755 best: 1760.5924755 (81) total: 2.03s remaining: 2.93s
82: learn: 1747.8251775 test: 1758.9083790 best: 1758.9083790 (82) total: 2.06s remaining: 2.9s
83: learn: 1746.6164523 test: 1757.9298859 best: 1757.9298859 (83) total: 2.09s remaining: 2.88s
84: learn: 1744.9216749 test: 1756.4943492 best: 1756.4943492 (84) total: 2.11s remaining: 2.86s
85: learn: 1741.7758671 test: 1754.0586201 best: 1754.0586201 (85) total: 2.14s remaining: 2.83s
86: learn: 1740.2164225 test: 1752.7819603 best: 1752.7819603 (86) total: 2.17s remaining: 2.82s
87: learn: 1738.9741325 test: 1751.5595159 best: 1751.5595159 (87) total: 2.19s remaining: 2.79s
88: learn: 1737.5250044 test: 1750.2789519 best: 1750.2789519 (88) total: 2.22s remaining: 2.77s
89: learn: 1735.9964819 test: 1749.4771409 best: 1749.4771409 (89) total: 2.25s remaining: 2.75s
90: learn: 1733.7928531 test: 1747.5185331 best: 1747.5185331 (90) total: 2.27s remaining: 2.72s
91: learn: 1732.2592254 test: 1746.2650928 best: 1746.2650928 (91) total: 2.3s remaining: 2.7s
92: learn: 1731.3647595 test: 1745.6020370 best: 1745.6020370 (92) total: 2.32s remaining: 2.67s
93: learn: 1728.6717044 test: 1743.5515152 best: 1743.5515152 (93) total: 2.35s remaining: 2.65s
94: learn: 1727.1921697 test: 1742.0680197 best: 1742.0680197 (94) total: 2.37s remaining: 2.62s
95: learn: 1725.3585171 test: 1740.8376684 best: 1740.8376684 (95) total: 2.4s remaining: 2.6s
96: learn: 1723.8195705 test: 1740.0946318 best: 1740.0946318 (96) total: 2.42s remaining: 2.57s
97: learn: 1722.1465166 test: 1738.7795928 best: 1738.7795928 (97) total: 2.45s remaining: 2.55s
98: learn: 1721.0258280 test: 1737.8403362 best: 1737.8403362 (98) total: 2.48s remaining: 2.52s
99: learn: 1719.2206026 test: 1736.3758050 best: 1736.3758050 (99) total: 2.5s remaining: 2.5s
100: learn: 1717.8491258 test: 1735.1988517 best: 1735.1988517 (100) total: 2.52s remaining: 2.47s
101: learn: 1716.5045723 test: 1734.0104746 best: 1734.0104746 (101) total: 2.55s remaining: 2.45s
102: learn: 1714.8906465 test: 1732.9814595 best: 1732.9814595 (102) total: 2.57s remaining: 2.42s
103: learn: 1713.6683992 test: 1731.8647666 best: 1731.8647666 (103) total: 2.6s remaining: 2.4s
104: learn: 1712.6366305 test: 1731.0564710 best: 1731.0564710 (104) total: 2.62s remaining: 2.37s
105: learn: 1711.0223076 test: 1729.8739881 best: 1729.8739881 (105) total: 2.64s remaining: 2.34s
106: learn: 1709.7353744 test: 1728.7723384 best: 1728.7723384 (106) total: 2.67s remaining: 2.32s
107: learn: 1708.5683237 test: 1727.8892373 best: 1727.8892373 (107) total: 2.69s remaining: 2.29s
108: learn: 1707.2748214 test: 1726.8874284 best: 1726.8874284 (108) total: 2.71s remaining: 2.27s
109: learn: 1706.2418057 test: 1726.0938087 best: 1726.0938087 (109) total: 2.74s remaining: 2.24s
110: learn: 1704.2388462 test: 1724.9843908 best: 1724.9843908 (110) total: 2.76s remaining: 2.21s
111: learn: 1703.1511353 test: 1724.3132220 best: 1724.3132220 (111) total: 2.78s remaining: 2.19s
112: learn: 1702.2173803 test: 1723.4835621 best: 1723.4835621 (112) total: 2.81s remaining: 2.16s
113: learn: 1700.5299106 test: 1722.5444825 best: 1722.5444825 (113) total: 2.83s remaining: 2.14s
114: learn: 1699.5091534 test: 1721.7035825 best: 1721.7035825 (114) total: 2.86s remaining: 2.12s
115: learn: 1697.4349487 test: 1720.1534637 best: 1720.1534637 (115) total: 2.89s remaining: 2.09s
116: learn: 1695.8659374 test: 1718.9935452 best: 1718.9935452 (116) total: 2.91s remaining: 2.07s
117: learn: 1694.6308363 test: 1717.9631698 best: 1717.9631698 (117) total: 2.94s remaining: 2.05s

118: learn: 1693.0730066 test: 1716.5405208 best: 1716.5405208 (118) total: 2.97s remaining: 2.02s
119: learn: 1691.3396882 test: 1715.2070381 best: 1715.2070381 (119) total: 3s remaining: 2s
120: learn: 1689.9868356 test: 1714.6118439 best: 1714.6118439 (120) total: 3.03s remaining: 1.98s
121: learn: 1688.5315179 test: 1713.1971376 best: 1713.1971376 (121) total: 3.06s remaining: 1.96s
122: learn: 1686.5545307 test: 1711.5169969 best: 1711.5169969 (122) total: 3.09s remaining: 1.93s
123: learn: 1685.2756846 test: 1710.7138781 best: 1710.7138781 (123) total: 3.12s remaining: 1.91s
124: learn: 1684.0173926 test: 1709.8963362 best: 1709.8963362 (124) total: 3.14s remaining: 1.89s
125: learn: 1683.3680958 test: 1709.2282495 best: 1709.2282495 (125) total: 3.17s remaining: 1.86s
126: learn: 1682.4237325 test: 1708.3309519 best: 1708.3309519 (126) total: 3.19s remaining: 1.84s
127: learn: 1681.1679761 test: 1707.9582435 best: 1707.9582435 (127) total: 3.22s remaining: 1.81s
128: learn: 1679.5215873 test: 1706.2817751 best: 1706.2817751 (128) total: 3.24s remaining: 1.78s
129: learn: 1678.2147248 test: 1705.4829505 best: 1705.4829505 (129) total: 3.27s remaining: 1.76s
130: learn: 1676.7001161 test: 1704.3212240 best: 1704.3212240 (130) total: 3.29s remaining: 1.74s
131: learn: 1675.8036707 test: 1703.5729197 best: 1703.5729197 (131) total: 3.32s remaining: 1.71s
132: learn: 1674.4139975 test: 1702.7578401 best: 1702.7578401 (132) total: 3.35s remaining: 1.69s
133: learn: 1672.9554331 test: 1701.4904885 best: 1701.4904885 (133) total: 3.37s remaining: 1.66s
134: learn: 1671.6923028 test: 1700.7676185 best: 1700.7676185 (134) total: 3.4s remaining: 1.64s
135: learn: 1670.7440687 test: 1700.7872427 best: 1700.7676185 (134) total: 3.42s remaining: 1.61s
136: learn: 1669.8761795 test: 1700.0969582 best: 1700.0969582 (136) total: 3.44s remaining: 1.58s
137: learn: 1668.4873007 test: 1699.3933353 best: 1699.3933353 (137) total: 3.47s remaining: 1.56s
138: learn: 1667.4867974 test: 1698.4505124 best: 1698.4505124 (138) total: 3.49s remaining: 1.53s
139: learn: 1666.2675572 test: 1697.7942641 best: 1697.7942641 (139) total: 3.52s remaining: 1.51s
140: learn: 1665.2744481 test: 1697.3226500 best: 1697.3226500 (140) total: 3.54s remaining: 1.48s
141: learn: 1664.0594972 test: 1696.5158016 best: 1696.5158016 (141) total: 3.57s remaining: 1.46s
142: learn: 1662.9295390 test: 1695.5151017 best: 1695.5151017 (142) total: 3.59s remaining: 1.43s
143: learn: 1661.7986348 test: 1694.3283321 best: 1694.3283321 (143) total: 3.62s remaining: 1.41s
144: learn: 1660.5103271 test: 1693.1974524 best: 1693.1974524 (144) total: 3.64s remaining: 1.38s
145: learn: 1659.7313925 test: 1692.5803968 best: 1692.5803968 (145) total: 3.66s remaining: 1.35s
146: learn: 1658.4066653 test: 1691.6452302 best: 1691.6452302 (146) total: 3.69s remaining: 1.33s
147: learn: 1657.0577376 test: 1690.8904547 best: 1690.8904547 (147) total: 3.71s remaining: 1.3s
148: learn: 1656.2458785 test: 1690.1953554 best: 1690.1953554 (148) total: 3.74s remaining: 1.28s
149: learn: 1655.2603799 test: 1689.5669118 best: 1689.5669118 (149) total: 3.76s remaining: 1.25s
150: learn: 1654.3569989 test: 1688.9602581 best: 1688.9602581 (150) total: 3.78s remaining: 1.23s
151: learn: 1653.7152136 test: 1688.4121276 best: 1688.4121276 (151) total: 3.81s remaining: 1.2s
152: learn: 1652.6823990 test: 1687.4762732 best: 1687.4762732 (152) total: 3.83s remaining: 1.18s
153: learn: 1651.8669258 test: 1687.0118854 best: 1687.0118854 (153) total: 3.85s remaining: 1.15s
154: learn: 1650.8042154 test: 1686.2136059 best: 1686.2136059 (154) total: 3.88s remaining: 1.13s
155: learn: 1649.9714544 test: 1685.6121379 best: 1685.6121379 (155) total: 3.9s remaining: 1.1s
156: learn: 1649.0737144 test: 1685.1188791 best: 1685.1188791 (156) total: 3.92s remaining: 1.07s
157: learn: 1648.2647983 test: 1684.6922794 best: 1684.6922794 (157) total: 3.95s remaining: 1.05s
158: learn: 1647.4036059 test: 1684.1172708 best: 1684.1172708 (158) total: 3.98s remaining: 1.02s

159: learn: 1646.1857683 test: 1683.0311310 best: 1683.0311310 (159) total: 4s remaining: 1000ms
160: learn: 1645.0647246 test: 1682.5253021 best: 1682.5253021 (160) total: 4.02s remaining: 975ms
161: learn: 1643.8720277 test: 1681.5304669 best: 1681.5304669 (161) total: 4.05s remaining: 950ms
162: learn: 1643.1513344 test: 1680.7763911 best: 1680.7763911 (162) total: 4.08s remaining: 925ms
163: learn: 1642.4899660 test: 1680.3582393 best: 1680.3582393 (163) total: 4.1s remaining: 900ms
164: learn: 1641.6989153 test: 1679.6025042 best: 1679.6025042 (164) total: 4.13s remaining: 876ms
165: learn: 1641.0729396 test: 1679.2301413 best: 1679.2301413 (165) total: 4.16s remaining: 851ms
166: learn: 1639.9977451 test: 1678.6449345 best: 1678.6449345 (166) total: 4.18s remaining: 827ms
167: learn: 1638.6971089 test: 1677.8288600 best: 1677.8288600 (167) total: 4.21s remaining: 802ms
168: learn: 1637.9152835 test: 1677.3453663 best: 1677.3453663 (168) total: 4.23s remaining: 777ms
169: learn: 1637.3478330 test: 1677.1926458 best: 1677.1926458 (169) total: 4.26s remaining: 751ms
170: learn: 1636.4541012 test: 1676.5684349 best: 1676.5684349 (170) total: 4.28s remaining: 726ms
171: learn: 1635.6345230 test: 1676.1559810 best: 1676.1559810 (171) total: 4.3s remaining: 700ms
172: learn: 1634.4346921 test: 1675.5479178 best: 1675.5479178 (172) total: 4.33s remaining: 676ms
173: learn: 1633.5158617 test: 1675.0943355 best: 1675.0943355 (173) total: 4.36s remaining: 651ms
174: learn: 1632.5193522 test: 1674.5470180 best: 1674.5470180 (174) total: 4.38s remaining: 626ms
175: learn: 1631.7445993 test: 1673.9764743 best: 1673.9764743 (175) total: 4.4s remaining: 601ms
176: learn: 1630.9620358 test: 1673.4854629 best: 1673.4854629 (176) total: 4.43s remaining: 575ms
177: learn: 1629.6293622 test: 1672.8034747 best: 1672.8034747 (177) total: 4.45s remaining: 550ms
178: learn: 1629.0677139 test: 1672.3901837 best: 1672.3901837 (178) total: 4.47s remaining: 525ms
179: learn: 1628.2687342 test: 1671.7044107 best: 1671.7044107 (179) total: 4.5s remaining: 500ms
180: learn: 1627.6686173 test: 1671.2256990 best: 1671.2256990 (180) total: 4.53s remaining: 475ms
181: learn: 1627.2029361 test: 1670.8458485 best: 1670.8458485 (181) total: 4.55s remaining: 450ms
182: learn: 1626.1808371 test: 1669.9646442 best: 1669.9646442 (182) total: 4.57s remaining: 425ms
183: learn: 1625.3442575 test: 1669.7052942 best: 1669.7052942 (183) total: 4.59s remaining: 399ms
184: learn: 1624.4715012 test: 1669.3565344 best: 1669.3565344 (184) total: 4.62s remaining: 374ms
185: learn: 1624.0386161 test: 1668.9836052 best: 1668.9836052 (185) total: 4.64s remaining: 349ms
186: learn: 1622.9782440 test: 1668.2867231 best: 1668.2867231 (186) total: 4.67s remaining: 325ms
187: learn: 1622.1541888 test: 1667.7946886 best: 1667.7946886 (187) total: 4.69s remaining: 299ms
188: learn: 1621.2407696 test: 1667.0161832 best: 1667.0161832 (188) total: 4.71s remaining: 274ms
189: learn: 1620.4159363 test: 1666.2735728 best: 1666.2735728 (189) total: 4.74s remaining: 249ms
190: learn: 1619.5243192 test: 1665.5004140 best: 1665.5004140 (190) total: 4.76s remaining: 224ms
191: learn: 1618.4015698 test: 1664.6980782 best: 1664.6980782 (191) total: 4.8s remaining: 200ms
192: learn: 1617.3181556 test: 1664.1477509 best: 1664.1477509 (192) total: 4.83s remaining: 175ms
193: learn: 1616.3799499 test: 1663.3486488 best: 1663.3486488 (193) total: 4.85s remaining: 150ms
194: learn: 1615.7604879 test: 1662.7908634 best: 1662.7908634 (194) total: 4.88s remaining: 125ms
195: learn: 1614.7832375 test: 1662.1784707 best: 1662.1784707 (195) total: 4.9s remaining: 100ms
196: learn: 1613.9622815 test: 1661.6110765 best: 1661.6110765 (196) total: 4.93s remaining: 75.1ms
197: learn: 1613.2893781 test: 1661.0706012 best: 1661.0706012 (197) total: 4.96s remaining: 50.1ms
198: learn: 1612.2940458 test: 1660.3950338 best: 1660.3950338 (198) total: 4.99s remaining: 25.1ms
199: learn: 1611.6893330 test: 1660.0950560 best: 1660.0950560 (199) total: 5.01s remaining: 0us

bestTest = 1660.095056

bestIteration = 199

91: loss: 1660.0950560 best: 1659.4456750 (89) total: 4m 15s remaining: 11.1s
0: learn: 6802.5918811 test: 6829.9108526 best: 6829.9108526 (0) total: 28.9ms remaining: 5.75s
1: learn: 6628.7468639 test: 6655.8166309 best: 6655.8166309 (1) total: 56.6ms remaining: 5.61s
2: learn: 6460.2582612 test: 6487.2169906 best: 6487.2169906 (2) total: 86.3ms remaining: 5.67s
3: learn: 6298.9243131 test: 6326.1487171 best: 6326.1487171 (3) total: 115ms remaining: 5.64s
4: learn: 6142.8888466 test: 6169.7690372 best: 6169.7690372 (4) total: 142ms remaining: 5.55s
5: learn: 5991.0731020 test: 6017.8023736 best: 6017.8023736 (5) total: 170ms remaining: 5.5s
6: learn: 5844.1359247 test: 5870.8909394 best: 5870.8909394 (6) total: 200ms remaining: 5.53s
7: learn: 5703.1399553 test: 5729.5733989 best: 5729.5733989 (7) total: 228ms remaining: 5.47s
8: learn: 5566.2552258 test: 5592.3375006 best: 5592.3375006 (8) total: 256ms remaining: 5.42s
9: learn: 5433.2307515 test: 5459.0455567 best: 5459.0455567 (9) total: 281ms remaining: 5.33s
10: learn: 5304.4098089 test: 5330.6293590 best: 5330.6293590 (10) total: 310ms remaining: 5.32s
11: learn: 5180.4373925 test: 5206.4906440 best: 5206.4906440 (11) total: 340ms remaining: 5.33s
12: learn: 5061.8239550 test: 5087.6061765 best: 5087.6061765 (12) total: 367ms remaining: 5.28s
13: learn: 4945.0660134 test: 4970.6145555 best: 4970.6145555 (13) total: 400ms remaining: 5.32s
14: learn: 4832.7593653 test: 4857.8754156 best: 4857.8754156 (14) total: 427ms remaining: 5.27s
15: learn: 4725.3057846 test: 4750.2579761 best: 4750.2579761 (15) total: 455ms remaining: 5.23s
16: learn: 4620.5351246 test: 4644.8371360 best: 4644.8371360 (16) total: 481ms remaining: 5.17s
17: learn: 4519.8615579 test: 4543.9142849 best: 4543.9142849 (17) total: 507ms remaining: 5.13s
18: learn: 4422.3137934 test: 4445.9530433 best: 4445.9530433 (18) total: 536ms remaining: 5.1s
19: learn: 4326.6676510 test: 4350.1444828 best: 4350.1444828 (19) total: 562ms remaining: 5.06s
20: learn: 4234.8264350 test: 4257.8334638 best: 4257.8334638 (20) total: 594ms remaining: 5.06s
21: learn: 4146.9452665 test: 4169.5846288 best: 4169.5846288 (21) total: 620ms remaining: 5.01s
22: learn: 4063.3812524 test: 4085.7648963 best: 4085.7648963 (22) total: 646ms remaining: 4.97s
23: learn: 3981.8428593 test: 4003.5638575 best: 4003.5638575 (23) total: 674ms remaining: 4.94s
24: learn: 3904.0238347 test: 3925.1113817 best: 3925.1113817 (24) total: 702ms remaining: 4.91s
25: learn: 3828.5998418 test: 3849.2434118 best: 3849.2434118 (25) total: 728ms remaining: 4.87s
26: learn: 3756.7364643 test: 3777.1457933 best: 3777.1457933 (26) total: 754ms remaining: 4.83s
27: learn: 3686.2348743 test: 3706.2576015 best: 3706.2576015 (27) total: 779ms remaining: 4.78s
28: learn: 3617.7568045 test: 3637.2888107 best: 3637.2888107 (28) total: 806ms remaining: 4.75s
29: learn: 3552.6488831 test: 3571.8671234 best: 3571.8671234 (29) total: 833ms remaining: 4.72s
30: learn: 3490.7651364 test: 3509.6984351 best: 3509.6984351 (30) total: 862ms remaining: 4.7s
31: learn: 3430.4174360 test: 3448.8872777 best: 3448.8872777 (31) total: 896ms remaining: 4.71s
32: learn: 3371.1026982 test: 3389.1200301 best: 3389.1200301 (32) total: 934ms remaining: 4.72s
33: learn: 3314.2348965 test: 3332.0114240 best: 3332.0114240 (33) total: 966ms remaining: 4.71s
34: learn: 3258.9752936 test: 3276.5777176 best: 3276.5777176 (34) total: 991ms remaining: 4.67s
35: learn: 3206.2464247 test: 3223.4979570 best: 3223.4979570 (35) total: 1.02s remaining: 4.63s
36: learn: 3155.1407002 test: 3171.8545646 best: 3171.8545646 (36) total: 1.04s remaining: 4.6s

36: learn: 3135.718782 test: 3177.133188 best: 3177.133188 (36) total: 1.0s remaining: 1.0s
37: learn: 3105.8546295 test: 3122.3793878 best: 3122.3793878 (37) total: 1.07s remaining: 4.56s
38: learn: 3059.4311448 test: 3075.6236138 best: 3075.6236138 (38) total: 1.1s remaining: 4.54s
39: learn: 3015.2351931 test: 3030.9362595 best: 3030.9362595 (39) total: 1.13s remaining: 4.52s
40: learn: 2973.0616413 test: 2988.2880242 best: 2988.2880242 (40) total: 1.16s remaining: 4.49s
41: learn: 2931.8258526 test: 2946.4567250 best: 2946.4567250 (41) total: 1.18s remaining: 4.45s
42: learn: 2892.4666172 test: 2906.8720812 best: 2906.8720812 (42) total: 1.22s remaining: 4.45s
43: learn: 2854.0911058 test: 2868.0552772 best: 2868.0552772 (43) total: 1.25s remaining: 4.41s
44: learn: 2817.8226585 test: 2831.2362828 best: 2831.2362828 (44) total: 1.27s remaining: 4.38s
45: learn: 2782.8501062 test: 2795.7306661 best: 2795.7306661 (45) total: 1.3s remaining: 4.35s
46: learn: 2748.2555339 test: 2760.9277817 best: 2760.9277817 (46) total: 1.32s remaining: 4.31s
47: learn: 2715.3560172 test: 2727.6845292 best: 2727.6845292 (47) total: 1.35s remaining: 4.27s
48: learn: 2683.6757592 test: 2695.6492173 best: 2695.6492173 (48) total: 1.38s remaining: 4.25s
49: learn: 2654.4686117 test: 2666.2842789 best: 2666.2842789 (49) total: 1.41s remaining: 4.23s
50: learn: 2625.6750178 test: 2636.8653488 best: 2636.8653488 (50) total: 1.43s remaining: 4.19s
51: learn: 2598.7775931 test: 2609.9867157 best: 2609.9867157 (51) total: 1.46s remaining: 4.15s
52: learn: 2573.2763485 test: 2583.9737555 best: 2583.9737555 (52) total: 1.49s remaining: 4.13s
53: learn: 2547.7970983 test: 2557.9225548 best: 2557.9225548 (53) total: 1.51s remaining: 4.09s
54: learn: 2523.7525182 test: 2533.4156552 best: 2533.4156552 (54) total: 1.54s remaining: 4.06s
55: learn: 2500.9065081 test: 2510.4140528 best: 2510.4140528 (55) total: 1.57s remaining: 4.03s
56: learn: 2478.6578707 test: 2487.7052320 best: 2487.7052320 (56) total: 1.59s remaining: 4s
57: learn: 2456.5622886 test: 2465.3064941 best: 2465.3064941 (57) total: 1.63s remaining: 3.99s
58: learn: 2436.2852373 test: 2445.0614980 best: 2445.0614980 (58) total: 1.65s remaining: 3.95s
59: learn: 2416.5319886 test: 2424.7975573 best: 2424.7975573 (59) total: 1.69s remaining: 3.94s
60: learn: 2397.3452525 test: 2405.2131311 best: 2405.2131311 (60) total: 1.72s remaining: 3.92s
61: learn: 2378.6725524 test: 2386.1606720 best: 2386.1606720 (61) total: 1.75s remaining: 3.89s
62: learn: 2358.9580879 test: 2366.3047389 best: 2366.3047389 (62) total: 1.77s remaining: 3.85s
63: learn: 2339.3131615 test: 2346.3878484 best: 2346.3878484 (63) total: 1.8s remaining: 3.82s
64: learn: 2321.4742979 test: 2328.2824406 best: 2328.2824406 (64) total: 1.83s remaining: 3.8s
65: learn: 2305.9965651 test: 2312.5125232 best: 2312.5125232 (65) total: 1.85s remaining: 3.77s
66: learn: 2290.7163044 test: 2296.8903459 best: 2296.8903459 (66) total: 1.88s remaining: 3.73s
67: learn: 2276.4458595 test: 2282.3774860 best: 2282.3774860 (67) total: 1.91s remaining: 3.7s
68: learn: 2263.0322648 test: 2268.7377394 best: 2268.7377394 (68) total: 1.93s remaining: 3.67s
69: learn: 2249.7672117 test: 2255.1871704 best: 2255.1871704 (69) total: 1.96s remaining: 3.63s
70: learn: 2235.2114576 test: 2240.3506374 best: 2240.3506374 (70) total: 1.99s remaining: 3.61s
71: learn: 2222.7299048 test: 2227.5609437 best: 2227.5609437 (71) total: 2.01s remaining: 3.58s
72: learn: 2211.0542255 test: 2215.4710311 best: 2215.4710311 (72) total: 2.04s remaining: 3.55s
73: learn: 2197.7066404 test: 2201.8764347 best: 2201.8764347 (73) total: 2.06s remaining: 3.52s
74: learn: 2185.9824629 test: 2189.8599386 best: 2189.8599386 (74) total: 2.09s remaining: 3.49s
75: learn: 2175.2508297 test: 2178.8293981 best: 2178.8293981 (75) total: 2.12s remaining: 3.45s
76: learn: 2164.4695361 test: 2167.7637119 best: 2167.7637119 (76) total: 2.14s remaining: 3.42s
77: learn: 2155.0147539 test: 2157.9482759 best: 2157.9482759 (77) total: 2.16s remaining: 3.38s

78: learn: 2144.8666580 test: 2147.4590999 best: 2147.4590999 (78) total: 2.19s remaining: 3.35s
79: learn: 2134.3004876 test: 2136.8335627 best: 2136.8335627 (79) total: 2.21s remaining: 3.32s
80: learn: 2125.5078831 test: 2127.9579329 best: 2127.9579329 (80) total: 2.24s remaining: 3.29s
81: learn: 2116.4206886 test: 2118.7833950 best: 2118.7833950 (81) total: 2.27s remaining: 3.26s
82: learn: 2108.3517251 test: 2110.5844083 best: 2110.5844083 (82) total: 2.3s remaining: 3.24s
83: learn: 2100.4855265 test: 2102.4915191 best: 2102.4915191 (83) total: 2.32s remaining: 3.21s
84: learn: 2093.0120308 test: 2094.8892457 best: 2094.8892457 (84) total: 2.35s remaining: 3.18s
85: learn: 2085.2739088 test: 2086.8862980 best: 2086.8862980 (85) total: 2.37s remaining: 3.15s
86: learn: 2076.3574898 test: 2077.7552885 best: 2077.7552885 (86) total: 2.41s remaining: 3.13s
87: learn: 2069.6200383 test: 2070.9737254 best: 2070.9737254 (87) total: 2.43s remaining: 3.1s
88: learn: 2061.6819833 test: 2063.0193677 best: 2063.0193677 (88) total: 2.46s remaining: 3.07s
89: learn: 2054.4478760 test: 2055.5098058 best: 2055.5098058 (89) total: 2.49s remaining: 3.04s
90: learn: 2047.8926818 test: 2048.7527985 best: 2048.7527985 (90) total: 2.51s remaining: 3.01s
91: learn: 2041.7732598 test: 2042.5922935 best: 2042.5922935 (91) total: 2.54s remaining: 2.98s
92: learn: 2036.1474943 test: 2036.9063661 best: 2036.9063661 (92) total: 2.56s remaining: 2.95s
93: learn: 2029.4215707 test: 2030.0395571 best: 2030.0395571 (93) total: 2.59s remaining: 2.92s
94: learn: 2024.3956550 test: 2024.7963404 best: 2024.7963404 (94) total: 2.62s remaining: 2.89s
95: learn: 2017.9421419 test: 2018.1916558 best: 2018.1916558 (95) total: 2.65s remaining: 2.87s
96: learn: 2012.8269453 test: 2012.6894154 best: 2012.6894154 (96) total: 2.67s remaining: 2.83s
97: learn: 2007.2813278 test: 2007.1118230 best: 2007.1118230 (97) total: 2.7s remaining: 2.81s
98: learn: 2002.6315536 test: 2002.1790922 best: 2002.1790922 (98) total: 2.72s remaining: 2.77s
99: learn: 1997.7126355 test: 1997.0783682 best: 1997.0783682 (99) total: 2.75s remaining: 2.75s
100: learn: 1992.6020164 test: 1991.9851769 best: 1991.9851769 (100) total: 2.78s remaining: 2.72s
101: learn: 1987.2297377 test: 1986.4314037 best: 1986.4314037 (101) total: 2.81s remaining: 2.7s
102: learn: 1983.1932880 test: 1982.2507216 best: 1982.2507216 (102) total: 2.85s remaining: 2.68s
103: learn: 1979.0785142 test: 1978.0595598 best: 1978.0595598 (103) total: 2.88s remaining: 2.66s
104: learn: 1974.1117261 test: 1973.0232011 best: 1973.0232011 (104) total: 2.91s remaining: 2.63s
105: learn: 1970.1769645 test: 1969.0819652 best: 1969.0819652 (105) total: 2.94s remaining: 2.61s
106: learn: 1966.5075151 test: 1965.2612140 best: 1965.2612140 (106) total: 2.97s remaining: 2.58s
107: learn: 1962.9364927 test: 1961.5771431 best: 1961.5771431 (107) total: 3s remaining: 2.55s
108: learn: 1959.4686723 test: 1957.8947824 best: 1957.8947824 (108) total: 3.03s remaining: 2.53s
109: learn: 1955.2176413 test: 1953.6292105 best: 1953.6292105 (109) total: 3.07s remaining: 2.51s
110: learn: 1951.3938739 test: 1949.5118340 best: 1949.5118340 (110) total: 3.09s remaining: 2.48s
111: learn: 1948.0810899 test: 1945.9931636 best: 1945.9931636 (111) total: 3.12s remaining: 2.45s
112: learn: 1944.6666717 test: 1942.5641207 best: 1942.5641207 (112) total: 3.14s remaining: 2.42s
113: learn: 1940.7706804 test: 1938.7408399 best: 1938.7408399 (113) total: 3.17s remaining: 2.39s
114: learn: 1937.6648288 test: 1935.5345752 best: 1935.5345752 (114) total: 3.2s remaining: 2.37s
115: learn: 1933.9745086 test: 1931.8595333 best: 1931.8595333 (115) total: 3.23s remaining: 2.34s
116: learn: 1931.1586516 test: 1928.8633887 best: 1928.8633887 (116) total: 3.25s remaining: 2.31s
117: learn: 1928.4272410 test: 1925.9793559 best: 1925.9793559 (117) total: 3.28s remaining: 2.28s
118: learn: 1925.3452035 test: 1922.8484773 best: 1922.8484773 (118) total: 3.3s remaining: 2.25s

119: learn: 1922.6630765 test: 1920.0484080 best: 1920.0484080 (119) total: 3.33s remaining: 2.22s
120: learn: 1920.2348089 test: 1917.5549919 best: 1917.5549919 (120) total: 3.35s remaining: 2.19s
121: learn: 1917.9250250 test: 1915.2504469 best: 1915.2504469 (121) total: 3.38s remaining: 2.16s
122: learn: 1915.5415889 test: 1912.8946709 best: 1912.8946709 (122) total: 3.41s remaining: 2.13s
123: learn: 1912.9494039 test: 1910.3011832 best: 1910.3011832 (123) total: 3.44s remaining: 2.11s
124: learn: 1910.5871297 test: 1907.8147290 best: 1907.8147290 (124) total: 3.47s remaining: 2.08s
125: learn: 1908.2340696 test: 1905.4158985 best: 1905.4158985 (125) total: 3.5s remaining: 2.05s
126: learn: 1905.9949921 test: 1903.1130388 best: 1903.1130388 (126) total: 3.52s remaining: 2.02s
127: learn: 1903.8382367 test: 1900.9764492 best: 1900.9764492 (127) total: 3.54s remaining: 1.99s
128: learn: 1901.1783639 test: 1898.5548596 best: 1898.5548596 (128) total: 3.57s remaining: 1.97s
129: learn: 1899.0511660 test: 1896.3134129 best: 1896.3134129 (129) total: 3.6s remaining: 1.94s
130: learn: 1896.2290824 test: 1893.5497408 best: 1893.5497408 (130) total: 3.62s remaining: 1.91s
131: learn: 1894.0235294 test: 1891.3116466 best: 1891.3116466 (131) total: 3.65s remaining: 1.88s
132: learn: 1892.1577572 test: 1889.4356886 best: 1889.4356886 (132) total: 3.67s remaining: 1.85s
133: learn: 1890.2589828 test: 1887.4975298 best: 1887.4975298 (133) total: 3.69s remaining: 1.82s
134: learn: 1888.0040620 test: 1885.3189108 best: 1885.3189108 (134) total: 3.71s remaining: 1.79s
135: learn: 1885.9113171 test: 1883.2158597 best: 1883.2158597 (135) total: 3.74s remaining: 1.76s
136: learn: 1883.8118971 test: 1881.1602537 best: 1881.1602537 (136) total: 3.76s remaining: 1.73s
137: learn: 1881.7006247 test: 1879.0432127 best: 1879.0432127 (137) total: 3.79s remaining: 1.7s
138: learn: 1879.5984022 test: 1876.9211452 best: 1876.9211452 (138) total: 3.82s remaining: 1.68s
139: learn: 1877.6686514 test: 1874.9540755 best: 1874.9540755 (139) total: 3.84s remaining: 1.65s
140: learn: 1875.9200816 test: 1873.2291057 best: 1873.2291057 (140) total: 3.87s remaining: 1.62s
141: learn: 1874.4147580 test: 1871.9247016 best: 1871.9247016 (141) total: 3.89s remaining: 1.59s
142: learn: 1872.8043225 test: 1870.2027571 best: 1870.2027571 (142) total: 3.91s remaining: 1.56s
143: learn: 1871.1992891 test: 1868.5627127 best: 1868.5627127 (143) total: 3.94s remaining: 1.53s
144: learn: 1869.7098103 test: 1867.0480516 best: 1867.0480516 (144) total: 3.96s remaining: 1.5s
145: learn: 1868.2924976 test: 1865.6739730 best: 1865.6739730 (145) total: 3.99s remaining: 1.48s
146: learn: 1866.6382148 test: 1864.0855071 best: 1864.0855071 (146) total: 4.02s remaining: 1.45s
147: learn: 1865.2357191 test: 1862.7773400 best: 1862.7773400 (147) total: 4.04s remaining: 1.42s
148: learn: 1863.9425916 test: 1861.4846599 best: 1861.4846599 (148) total: 4.07s remaining: 1.39s
149: learn: 1862.6621757 test: 1860.1742607 best: 1860.1742607 (149) total: 4.09s remaining: 1.36s
150: learn: 1861.4698575 test: 1859.0347828 best: 1859.0347828 (150) total: 4.12s remaining: 1.33s
151: learn: 1860.0373390 test: 1857.6905605 best: 1857.6905605 (151) total: 4.14s remaining: 1.31s
152: learn: 1858.1465507 test: 1855.7568426 best: 1855.7568426 (152) total: 4.17s remaining: 1.28s
153: learn: 1856.5326766 test: 1854.3017515 best: 1854.3017515 (153) total: 4.19s remaining: 1.25s
154: learn: 1855.3433958 test: 1853.1982182 best: 1853.1982182 (154) total: 4.21s remaining: 1.22s
155: learn: 1853.9965744 test: 1851.7359185 best: 1851.7359185 (155) total: 4.24s remaining: 1.2s
156: learn: 1852.6053106 test: 1850.5040856 best: 1850.5040856 (156) total: 4.27s remaining: 1.17s
157: learn: 1851.5022437 test: 1849.4678212 best: 1849.4678212 (157) total: 4.29s remaining: 1.14s
158: learn: 1849.6346451 test: 1847.7584485 best: 1847.7584485 (158) total: 4.32s remaining: 1.11s
159: learn: 1848.2304214 test: 1846.2436494 best: 1846.2436494 (159) total: 4.34s remaining: 1.08s
160: learn: 1846.0373390 test: 1844.2133222 best: 1844.2133222 (160) total: 4.37s remaining: 1.05s

160: learn: 1846.3339664 test: 1844.3439336 best: 1844.3439336 (160) total: 4.37s remaining: 1.06s
161: learn: 1844.6175710 test: 1842.6932280 best: 1842.6932280 (161) total: 4.4s remaining: 1.03s
162: learn: 1843.5096992 test: 1841.6023334 best: 1841.6023334 (162) total: 4.42s remaining: 1s
163: learn: 1842.3128728 test: 1840.6063928 best: 1840.6063928 (163) total: 4.46s remaining: 978ms
164: learn: 1841.1165416 test: 1839.6014164 best: 1839.6014164 (164) total: 4.48s remaining: 951ms
165: learn: 1839.7517479 test: 1838.4898159 best: 1838.4898159 (165) total: 4.51s remaining: 924ms
166: learn: 1838.6533025 test: 1837.4415077 best: 1837.4415077 (166) total: 4.53s remaining: 896ms
167: learn: 1836.6924314 test: 1835.8268001 best: 1835.8268001 (167) total: 4.56s remaining: 868ms
168: learn: 1835.5232647 test: 1834.5971859 best: 1834.5971859 (168) total: 4.58s remaining: 841ms
169: learn: 1834.4545533 test: 1833.4738288 best: 1833.4738288 (169) total: 4.61s remaining: 813ms
170: learn: 1833.1012990 test: 1832.2453369 best: 1832.2453369 (170) total: 4.63s remaining: 786ms
171: learn: 1831.6076444 test: 1831.0456955 best: 1831.0456955 (171) total: 4.67s remaining: 760ms
172: learn: 1830.2385109 test: 1829.7335600 best: 1829.7335600 (172) total: 4.69s remaining: 732ms
173: learn: 1829.4023677 test: 1828.9011170 best: 1828.9011170 (173) total: 4.71s remaining: 704ms
174: learn: 1828.2084764 test: 1827.8685140 best: 1827.8685140 (174) total: 4.74s remaining: 677ms
175: learn: 1826.7626362 test: 1826.7523285 best: 1826.7523285 (175) total: 4.76s remaining: 650ms
176: learn: 1825.7589444 test: 1825.8009805 best: 1825.8009805 (176) total: 4.79s remaining: 622ms
177: learn: 1824.7950984 test: 1824.8172869 best: 1824.8172869 (177) total: 4.81s remaining: 595ms
178: learn: 1823.0326646 test: 1823.2574357 best: 1823.2574357 (178) total: 4.83s remaining: 567ms
179: learn: 1822.0242706 test: 1822.3333811 best: 1822.3333811 (179) total: 4.86s remaining: 540ms
180: learn: 1821.2034889 test: 1821.4570724 best: 1821.4570724 (180) total: 4.88s remaining: 513ms
181: learn: 1820.3566008 test: 1820.6567909 best: 1820.6567909 (181) total: 4.91s remaining: 486ms
182: learn: 1819.4183412 test: 1819.8102350 best: 1819.8102350 (182) total: 4.93s remaining: 458ms
183: learn: 1818.2544181 test: 1818.7011944 best: 1818.7011944 (183) total: 4.96s remaining: 431ms
184: learn: 1817.3806765 test: 1817.7662811 best: 1817.7662811 (184) total: 4.98s remaining: 404ms
185: learn: 1816.4428682 test: 1816.8912912 best: 1816.8912912 (185) total: 5s remaining: 377ms
186: learn: 1815.7069938 test: 1816.2070943 best: 1816.2070943 (186) total: 5.03s remaining: 350ms
187: learn: 1814.7939312 test: 1815.3156281 best: 1815.3156281 (187) total: 5.05s remaining: 323ms
188: learn: 1813.8537036 test: 1814.4169982 best: 1814.4169982 (188) total: 5.08s remaining: 296ms
189: learn: 1812.9972145 test: 1813.5619059 best: 1813.5619059 (189) total: 5.11s remaining: 269ms
190: learn: 1812.1717173 test: 1812.8575820 best: 1812.8575820 (190) total: 5.13s remaining: 242ms
191: learn: 1811.0940113 test: 1811.8776727 best: 1811.8776727 (191) total: 5.15s remaining: 215ms
192: learn: 1809.7517877 test: 1810.7746409 best: 1810.7746409 (192) total: 5.18s remaining: 188ms
193: learn: 1808.6372869 test: 1809.7541157 best: 1809.7541157 (193) total: 5.2s remaining: 161ms
194: learn: 1807.8387356 test: 1809.0002240 best: 1809.0002240 (194) total: 5.23s remaining: 134ms
195: learn: 1806.7450731 test: 1807.9751815 best: 1807.9751815 (195) total: 5.25s remaining: 107ms
196: learn: 1805.8851188 test: 1807.1955044 best: 1807.1955044 (196) total: 5.28s remaining: 80.4ms
197: learn: 1804.3535481 test: 1805.9461630 best: 1805.9461630 (197) total: 5.3s remaining: 53.6ms
198: learn: 1802.9457303 test: 1804.7230840 best: 1804.7230840 (198) total: 5.33s remaining: 26.8ms
199: learn: 1802.2977047 test: 1804.0884001 best: 1804.0884001 (199) total: 5.35s remaining: 0us

bestIteration = 199

92: loss: 1804.0884001 best: 1659.4456750 (89) total: 4m 20s remaining: 8.4s
0: learn: 6386.9090228 test: 6412.4120624 best: 6412.4120624 (0) total: 26.7ms remaining: 5.32s
1: learn: 5855.9433588 test: 5881.2606591 best: 5881.2606591 (1) total: 52ms remaining: 5.15s
2: learn: 5383.2691000 test: 5408.2374155 best: 5408.2374155 (2) total: 78.1ms remaining: 5.13s
3: learn: 4963.5525879 test: 4988.0977310 best: 4988.0977310 (3) total: 109ms remaining: 5.32s
4: learn: 4599.3066538 test: 4622.6051126 best: 4622.6051126 (4) total: 139ms remaining: 5.4s
5: learn: 4271.4456627 test: 4293.0535190 best: 4293.0535190 (5) total: 164ms remaining: 5.3s
6: learn: 3979.0802968 test: 3999.2342416 best: 3999.2342416 (6) total: 189ms remaining: 5.21s
7: learn: 3716.6355816 test: 3735.4902411 best: 3735.4902411 (7) total: 216ms remaining: 5.18s
8: learn: 3491.3127883 test: 3508.0893179 best: 3508.0893179 (8) total: 242ms remaining: 5.13s
9: learn: 3294.2915596 test: 3310.3125656 best: 3310.3125656 (9) total: 267ms remaining: 5.07s
10: learn: 3118.5092900 test: 3133.8695082 best: 3133.8695082 (10) total: 292ms remaining: 5.01s
11: learn: 2962.5356230 test: 2976.6732100 best: 2976.6732100 (11) total: 318ms remaining: 4.98s
12: learn: 2830.4589872 test: 2842.7364600 best: 2842.7364600 (12) total: 342ms remaining: 4.92s
13: learn: 2715.6651954 test: 2726.0269626 best: 2726.0269626 (13) total: 368ms remaining: 4.89s
14: learn: 2614.6973353 test: 2623.6735836 best: 2623.6735836 (14) total: 397ms remaining: 4.89s
15: learn: 2526.9134533 test: 2535.6301382 best: 2535.6301382 (15) total: 421ms remaining: 4.84s
16: learn: 2452.3674213 test: 2460.1058163 best: 2460.1058163 (16) total: 446ms remaining: 4.8s
17: learn: 2385.8110326 test: 2391.9427251 best: 2391.9427251 (17) total: 470ms remaining: 4.75s
18: learn: 2327.4500217 test: 2332.8351979 best: 2332.8351979 (18) total: 496ms remaining: 4.72s
19: learn: 2276.3457446 test: 2281.2404668 best: 2281.2404668 (19) total: 520ms remaining: 4.68s
20: learn: 2223.6695331 test: 2227.1967205 best: 2227.1967205 (20) total: 544ms remaining: 4.64s
21: learn: 2183.8785106 test: 2186.2863408 best: 2186.2863408 (21) total: 568ms remaining: 4.6s
22: learn: 2143.0096266 test: 2144.6255627 best: 2144.6255627 (22) total: 604ms remaining: 4.65s
23: learn: 2112.7918423 test: 2114.0421107 best: 2114.0421107 (23) total: 628ms remaining: 4.61s
24: learn: 2088.4368364 test: 2088.6980540 best: 2088.6980540 (24) total: 652ms remaining: 4.56s
25: learn: 2067.4856452 test: 2067.1992692 best: 2067.1992692 (25) total: 677ms remaining: 4.53s
26: learn: 2042.7979500 test: 2041.8245827 best: 2041.8245827 (26) total: 702ms remaining: 4.5s
27: learn: 2019.6650524 test: 2018.7673412 best: 2018.7673412 (27) total: 728ms remaining: 4.47s
28: learn: 2001.3973529 test: 2000.4760205 best: 2000.4760205 (28) total: 753ms remaining: 4.44s
29: learn: 1985.0447863 test: 1983.5773202 best: 1983.5773202 (29) total: 778ms remaining: 4.41s
30: learn: 1971.9256695 test: 1969.4726748 best: 1969.4726748 (30) total: 807ms remaining: 4.4s
31: learn: 1957.7006176 test: 1954.8692121 best: 1954.8692121 (31) total: 833ms remaining: 4.38s
32: learn: 1947.0389020 test: 1943.7141962 best: 1943.7141962 (32) total: 859ms remaining: 4.34s
33: learn: 1936.5569235 test: 1933.3941094 best: 1933.3941094 (33) total: 884ms remaining: 4.32s
34: learn: 1927.0591923 test: 1923.8135809 best: 1923.8135809 (34) total: 908ms remaining: 4.28s
35: learn: 1918.5497535 test: 1915.6034313 best: 1915.6034313 (35) total: 934ms remaining: 4.25s
36: learn: 1908.6669100 test: 1905.5085922 best: 1905.5085922 (36) total: 962ms remaining: 4.24s
37: learn: 1901.5140948 test: 1898.6525517 best: 1898.6525517 (37) total: 985ms remaining: 4.2s

38: learn: 1895.0484581 test: 1892.1156457 best: 1892.1156457 (38) total: 1.01s remaining: 4.18s
39: learn: 1887.9846555 test: 1885.3155542 best: 1885.3155542 (39) total: 1.04s remaining: 4.15s
40: learn: 1879.9839507 test: 1877.2602560 best: 1877.2602560 (40) total: 1.06s remaining: 4.12s
41: learn: 1874.5689910 test: 1871.9778892 best: 1871.9778892 (41) total: 1.09s remaining: 4.09s
42: learn: 1868.2607511 test: 1865.6121656 best: 1865.6121656 (42) total: 1.11s remaining: 4.06s
43: learn: 1864.0656988 test: 1861.7716973 best: 1861.7716973 (43) total: 1.13s remaining: 4.02s
44: learn: 1859.5347528 test: 1857.2602505 best: 1857.2602505 (44) total: 1.16s remaining: 4.01s
45: learn: 1855.0412019 test: 1853.2721657 best: 1853.2721657 (45) total: 1.19s remaining: 4s
46: learn: 1850.6852047 test: 1849.0914111 best: 1849.0914111 (46) total: 1.22s remaining: 3.96s
47: learn: 1845.5015676 test: 1843.9860751 best: 1843.9860751 (47) total: 1.24s remaining: 3.94s
48: learn: 1842.0467927 test: 1841.2284582 best: 1841.2284582 (48) total: 1.27s remaining: 3.91s
49: learn: 1837.5166362 test: 1837.2583384 best: 1837.2583384 (49) total: 1.29s remaining: 3.88s
50: learn: 1834.4429112 test: 1834.3769155 best: 1834.3769155 (50) total: 1.32s remaining: 3.85s
51: learn: 1830.9785374 test: 1830.7060260 best: 1830.7060260 (51) total: 1.34s remaining: 3.81s
52: learn: 1828.1739429 test: 1828.3026717 best: 1828.3026717 (52) total: 1.36s remaining: 3.78s
53: learn: 1823.9395888 test: 1824.2238097 best: 1824.2238097 (53) total: 1.39s remaining: 3.76s
54: learn: 1820.8571873 test: 1821.5756078 best: 1821.5756078 (54) total: 1.42s remaining: 3.74s
55: learn: 1816.5652043 test: 1817.6213625 best: 1817.6213625 (55) total: 1.44s remaining: 3.71s
56: learn: 1813.5201800 test: 1814.8531684 best: 1814.8531684 (56) total: 1.47s remaining: 3.69s
57: learn: 1808.8884579 test: 1811.1227536 best: 1811.1227536 (57) total: 1.5s remaining: 3.66s
58: learn: 1806.5568535 test: 1808.7888680 best: 1808.7888680 (58) total: 1.52s remaining: 3.63s
59: learn: 1804.2146234 test: 1806.5030333 best: 1806.5030333 (59) total: 1.54s remaining: 3.6s
60: learn: 1801.6894973 test: 1804.1271128 best: 1804.1271128 (60) total: 1.56s remaining: 3.56s
61: learn: 1798.2108085 test: 1800.7771997 best: 1800.7771997 (61) total: 1.59s remaining: 3.54s
62: learn: 1794.5050009 test: 1797.2189146 best: 1797.2189146 (62) total: 1.62s remaining: 3.52s
63: learn: 1791.2522392 test: 1795.1755211 best: 1795.1755211 (63) total: 1.65s remaining: 3.5s
64: learn: 1789.0790933 test: 1793.4257664 best: 1793.4257664 (64) total: 1.67s remaining: 3.47s
65: learn: 1785.9007533 test: 1790.4872138 best: 1790.4872138 (65) total: 1.7s remaining: 3.46s
66: learn: 1783.9500190 test: 1788.5383518 best: 1788.5383518 (66) total: 1.73s remaining: 3.43s
67: learn: 1781.8498842 test: 1786.6087777 best: 1786.6087777 (67) total: 1.75s remaining: 3.4s
68: learn: 1779.7987330 test: 1784.6891623 best: 1784.6891623 (68) total: 1.78s remaining: 3.37s
69: learn: 1777.7513902 test: 1782.7546127 best: 1782.7546127 (69) total: 1.8s remaining: 3.35s
70: learn: 1776.1087417 test: 1781.2094736 best: 1781.2094736 (70) total: 1.83s remaining: 3.32s
71: learn: 1774.4588983 test: 1779.7135543 best: 1779.7135543 (71) total: 1.85s remaining: 3.29s
72: learn: 1772.3691450 test: 1778.0302220 best: 1778.0302220 (72) total: 1.87s remaining: 3.26s
73: learn: 1770.7158112 test: 1776.3181155 best: 1776.3181155 (73) total: 1.9s remaining: 3.23s
74: learn: 1768.9943633 test: 1774.7307949 best: 1774.7307949 (74) total: 1.92s remaining: 3.2s
75: learn: 1767.3016107 test: 1773.4744611 best: 1773.4744611 (75) total: 1.95s remaining: 3.17s
76: learn: 1764.7612634 test: 1771.2645478 best: 1771.2645478 (76) total: 1.97s remaining: 3.15s
77: learn: 1763.0120031 test: 1769.9483839 best: 1769.9483839 (77) total: 2s remaining: 3.13s
78: learn: 1760.5545675 test: 1767.8860175 best: 1767.8860175 (78) total: 2.02s remaining: 3.1s

79: learn: 1758.8505289 test: 1766.3931916 best: 1766.3931916 (79) total: 2.05s remaining: 3.07s
80: learn: 1756.4332294 test: 1764.3866711 best: 1764.3866711 (80) total: 2.07s remaining: 3.04s
81: learn: 1754.1431814 test: 1762.2622021 best: 1762.2622021 (81) total: 2.1s remaining: 3.02s
82: learn: 1753.1514077 test: 1761.3142654 best: 1761.3142654 (82) total: 2.12s remaining: 2.99s
83: learn: 1751.8242688 test: 1760.2542043 best: 1760.2542043 (83) total: 2.15s remaining: 2.97s
84: learn: 1749.9930999 test: 1758.5774202 best: 1758.5774202 (84) total: 2.17s remaining: 2.94s
85: learn: 1748.2149748 test: 1757.5883173 best: 1757.5883173 (85) total: 2.2s remaining: 2.92s
86: learn: 1746.9999362 test: 1756.5327882 best: 1756.5327882 (86) total: 2.22s remaining: 2.89s
87: learn: 1745.5399919 test: 1755.2727659 best: 1755.2727659 (87) total: 2.25s remaining: 2.86s
88: learn: 1743.6533297 test: 1753.7851563 best: 1753.7851563 (88) total: 2.27s remaining: 2.83s
89: learn: 1742.4742423 test: 1752.6897233 best: 1752.6897233 (89) total: 2.3s remaining: 2.81s
90: learn: 1740.9614243 test: 1751.9656025 best: 1751.9656025 (90) total: 2.32s remaining: 2.78s
91: learn: 1739.8407232 test: 1751.3966557 best: 1751.3966557 (91) total: 2.35s remaining: 2.75s
92: learn: 1738.8814283 test: 1750.4417863 best: 1750.4417863 (92) total: 2.37s remaining: 2.73s
93: learn: 1737.2126100 test: 1749.0000931 best: 1749.0000931 (93) total: 2.39s remaining: 2.7s
94: learn: 1735.3657628 test: 1747.8530099 best: 1747.8530099 (94) total: 2.42s remaining: 2.67s
95: learn: 1734.1687215 test: 1747.2371457 best: 1747.2371457 (95) total: 2.44s remaining: 2.64s
96: learn: 1732.0310771 test: 1746.0054986 best: 1746.0054986 (96) total: 2.46s remaining: 2.62s
97: learn: 1730.5129582 test: 1744.6607647 best: 1744.6607647 (97) total: 2.49s remaining: 2.59s
98: learn: 1729.3112057 test: 1743.6512924 best: 1743.6512924 (98) total: 2.52s remaining: 2.57s
99: learn: 1727.9461024 test: 1742.6081300 best: 1742.6081300 (99) total: 2.54s remaining: 2.54s
100: learn: 1726.4750066 test: 1741.3394748 best: 1741.3394748 (100) total: 2.57s remaining: 2.52s
101: learn: 1724.9101659 test: 1739.7433311 best: 1739.7433311 (101) total: 2.6s remaining: 2.49s
102: learn: 1722.5938376 test: 1737.6935877 best: 1737.6935877 (102) total: 2.63s remaining: 2.47s
103: learn: 1721.2958407 test: 1736.5986124 best: 1736.5986124 (103) total: 2.65s remaining: 2.44s
104: learn: 1719.3797469 test: 1735.1242096 best: 1735.1242096 (104) total: 2.67s remaining: 2.42s
105: learn: 1718.1824401 test: 1734.0527187 best: 1734.0527187 (105) total: 2.7s remaining: 2.4s
106: learn: 1716.6385845 test: 1732.4576615 best: 1732.4576615 (106) total: 2.73s remaining: 2.37s
107: learn: 1715.6471447 test: 1731.7001176 best: 1731.7001176 (107) total: 2.75s remaining: 2.34s
108: learn: 1713.6047425 test: 1730.6764152 best: 1730.6764152 (108) total: 2.77s remaining: 2.31s
109: learn: 1712.7513220 test: 1729.9765740 best: 1729.9765740 (109) total: 2.8s remaining: 2.29s
110: learn: 1710.9212750 test: 1728.1516374 best: 1728.1516374 (110) total: 2.82s remaining: 2.26s
111: learn: 1708.5467002 test: 1726.3559580 best: 1726.3559580 (111) total: 2.85s remaining: 2.24s
112: learn: 1707.0982980 test: 1725.4613387 best: 1725.4613387 (112) total: 2.88s remaining: 2.22s
113: learn: 1705.5536138 test: 1724.4130024 best: 1724.4130024 (113) total: 2.91s remaining: 2.2s
114: learn: 1704.2480819 test: 1723.4330774 best: 1723.4330774 (114) total: 2.94s remaining: 2.17s
115: learn: 1703.1453890 test: 1722.4595941 best: 1722.4595941 (115) total: 2.97s remaining: 2.15s
116: learn: 1701.4648667 test: 1720.8735805 best: 1720.8735805 (116) total: 3s remaining: 2.13s
117: learn: 1700.4385612 test: 1720.0722819 best: 1720.0722819 (117) total: 3.02s remaining: 2.1s
118: learn: 1698.6236735 test: 1718.9113028 best: 1718.9113028 (118) total: 3.06s remaining: 2.08s
119: learn: 1697.2325712 test: 1717.7964607 best: 1717.7964607 (119) total: 3.08s remaining: 2.06s
120: learn: 1695.7402047 test: 1716.0006700 best: 1716.0006700 (120) total: 3.11s remaining: 2.02s

120: learn: 1695.7493247 test: 1716.9986790 best: 1716.9986790 (120) total: 3.11s remaining: 2.03s
121: learn: 1694.2738344 test: 1716.2296655 best: 1716.2296655 (121) total: 3.14s remaining: 2.01s
122: learn: 1693.2318471 test: 1715.4297917 best: 1715.4297917 (122) total: 3.16s remaining: 1.98s
123: learn: 1691.6823554 test: 1714.4391422 best: 1714.4391422 (123) total: 3.19s remaining: 1.96s
124: learn: 1689.7381969 test: 1712.8913439 best: 1712.8913439 (124) total: 3.22s remaining: 1.93s
125: learn: 1688.6656967 test: 1712.2589492 best: 1712.2589492 (125) total: 3.24s remaining: 1.9s
126: learn: 1687.1219551 test: 1711.2652338 best: 1711.2652338 (126) total: 3.26s remaining: 1.88s
127: learn: 1685.9578666 test: 1710.1308993 best: 1710.1308993 (127) total: 3.29s remaining: 1.85s
128: learn: 1684.6979303 test: 1708.8881985 best: 1708.8881985 (128) total: 3.31s remaining: 1.82s
129: learn: 1683.5355471 test: 1707.8212182 best: 1707.8212182 (129) total: 3.34s remaining: 1.8s
130: learn: 1682.3401930 test: 1706.7772852 best: 1706.7772852 (130) total: 3.37s remaining: 1.77s
131: learn: 1681.2010995 test: 1706.0504028 best: 1706.0504028 (131) total: 3.4s remaining: 1.75s
132: learn: 1679.6678459 test: 1704.9254102 best: 1704.9254102 (132) total: 3.42s remaining: 1.73s
133: learn: 1677.9172293 test: 1703.8675267 best: 1703.8675267 (133) total: 3.46s remaining: 1.7s
134: learn: 1676.8521570 test: 1703.2062231 best: 1703.2062231 (134) total: 3.49s remaining: 1.68s
135: learn: 1675.8004734 test: 1702.7989101 best: 1702.7989101 (135) total: 3.51s remaining: 1.65s
136: learn: 1674.6523675 test: 1701.9439012 best: 1701.9439012 (136) total: 3.54s remaining: 1.63s
137: learn: 1673.5603147 test: 1701.1781333 best: 1701.1781333 (137) total: 3.56s remaining: 1.6s
138: learn: 1672.2870872 test: 1699.8385806 best: 1699.8385806 (138) total: 3.59s remaining: 1.58s
139: learn: 1671.2528308 test: 1699.1960410 best: 1699.1960410 (139) total: 3.62s remaining: 1.55s
140: learn: 1670.3806365 test: 1698.8577719 best: 1698.8577719 (140) total: 3.64s remaining: 1.52s
141: learn: 1669.5550759 test: 1698.2015675 best: 1698.2015675 (141) total: 3.66s remaining: 1.5s
142: learn: 1668.6274188 test: 1697.6025698 best: 1697.6025698 (142) total: 3.69s remaining: 1.47s
143: learn: 1667.0002310 test: 1696.1009830 best: 1696.1009830 (143) total: 3.72s remaining: 1.45s
144: learn: 1665.6086107 test: 1695.4009724 best: 1695.4009724 (144) total: 3.74s remaining: 1.42s
145: learn: 1664.3174949 test: 1694.5128514 best: 1694.5128514 (145) total: 3.76s remaining: 1.39s
146: learn: 1663.0358960 test: 1693.6154612 best: 1693.6154612 (146) total: 3.8s remaining: 1.37s
147: learn: 1662.0241538 test: 1692.7610681 best: 1692.7610681 (147) total: 3.82s remaining: 1.34s
148: learn: 1660.9249334 test: 1692.2699620 best: 1692.2699620 (148) total: 3.85s remaining: 1.32s
149: learn: 1659.7024510 test: 1690.9462746 best: 1690.9462746 (149) total: 3.87s remaining: 1.29s
150: learn: 1658.5794223 test: 1690.2765404 best: 1690.2765404 (150) total: 3.9s remaining: 1.26s
151: learn: 1657.6513282 test: 1689.4768818 best: 1689.4768818 (151) total: 3.92s remaining: 1.24s
152: learn: 1656.4874261 test: 1688.7295068 best: 1688.7295068 (152) total: 3.95s remaining: 1.21s
153: learn: 1655.6333829 test: 1687.9280338 best: 1687.9280338 (153) total: 3.98s remaining: 1.19s
154: learn: 1654.4421855 test: 1686.8998330 best: 1686.8998330 (154) total: 4s remaining: 1.16s
155: learn: 1653.7088345 test: 1686.4930237 best: 1686.4930237 (155) total: 4.03s remaining: 1.14s
156: learn: 1652.8222165 test: 1685.9340393 best: 1685.9340393 (156) total: 4.05s remaining: 1.11s
157: learn: 1651.3287136 test: 1685.1272307 best: 1685.1272307 (157) total: 4.08s remaining: 1.08s
158: learn: 1650.3292602 test: 1684.8416281 best: 1684.8416281 (158) total: 4.1s remaining: 1.06s
159: learn: 1648.9133555 test: 1683.5534371 best: 1683.5534371 (159) total: 4.13s remaining: 1.03s
160: learn: 1647.9198573 test: 1682.8775534 best: 1682.8775534 (160) total: 4.15s remaining: 1.01s
161: learn: 1647.1190702 test: 1682.3038348 best: 1682.3038348 (161) total: 4.18s remaining: 981ms

162: learn: 1646.2848669 test: 1681.9357738 best: 1681.9357738 (162) total: 4.21s remaining: 955ms
163: learn: 1645.2532915 test: 1681.2264152 best: 1681.2264152 (163) total: 4.24s remaining: 930ms
164: learn: 1643.7658793 test: 1680.3872471 best: 1680.3872471 (164) total: 4.26s remaining: 904ms
165: learn: 1642.9863951 test: 1679.7782778 best: 1679.7782778 (165) total: 4.29s remaining: 878ms
166: learn: 1642.0456149 test: 1678.8534006 best: 1678.8534006 (166) total: 4.31s remaining: 852ms
167: learn: 1641.2962620 test: 1678.5741665 best: 1678.5741665 (167) total: 4.33s remaining: 826ms
168: learn: 1640.4826363 test: 1677.7086853 best: 1677.7086853 (168) total: 4.36s remaining: 800ms
169: learn: 1639.0575911 test: 1676.4338281 best: 1676.4338281 (169) total: 4.39s remaining: 775ms
170: learn: 1638.2060841 test: 1675.8444358 best: 1675.8444358 (170) total: 4.42s remaining: 749ms
171: learn: 1637.5815465 test: 1675.3552482 best: 1675.3552482 (171) total: 4.44s remaining: 723ms
172: learn: 1636.7178601 test: 1674.8607446 best: 1674.8607446 (172) total: 4.46s remaining: 697ms
173: learn: 1635.9921547 test: 1674.3013887 best: 1674.3013887 (173) total: 4.49s remaining: 671ms
174: learn: 1635.1212187 test: 1673.6956329 best: 1673.6956329 (174) total: 4.52s remaining: 645ms
175: learn: 1634.0839651 test: 1672.7857402 best: 1672.7857402 (175) total: 4.54s remaining: 619ms
176: learn: 1633.4002363 test: 1672.1722116 best: 1672.1722116 (176) total: 4.57s remaining: 594ms
177: learn: 1632.7012192 test: 1671.5917229 best: 1671.5917229 (177) total: 4.59s remaining: 568ms
178: learn: 1632.2510624 test: 1671.2643280 best: 1671.2643280 (178) total: 4.62s remaining: 542ms
179: learn: 1631.3155255 test: 1670.7416980 best: 1670.7416980 (179) total: 4.64s remaining: 516ms
180: learn: 1630.5734125 test: 1670.2600417 best: 1670.2600417 (180) total: 4.67s remaining: 490ms
181: learn: 1629.5466813 test: 1670.0367029 best: 1670.0367029 (181) total: 4.69s remaining: 464ms
182: learn: 1628.9286340 test: 1669.7033238 best: 1669.7033238 (182) total: 4.71s remaining: 438ms
183: learn: 1628.2074930 test: 1669.1379327 best: 1669.1379327 (183) total: 4.74s remaining: 412ms
184: learn: 1627.1073919 test: 1668.4973613 best: 1668.4973613 (184) total: 4.76s remaining: 386ms
185: learn: 1626.3709347 test: 1667.9846594 best: 1667.9846594 (185) total: 4.79s remaining: 360ms
186: learn: 1625.3889839 test: 1667.1594188 best: 1667.1594188 (186) total: 4.81s remaining: 335ms
187: learn: 1624.6846482 test: 1666.8406978 best: 1666.8406978 (187) total: 4.83s remaining: 309ms
188: learn: 1624.0018851 test: 1666.4780924 best: 1666.4780924 (188) total: 4.86s remaining: 283ms
189: learn: 1623.5881088 test: 1666.3134545 best: 1666.3134545 (189) total: 4.88s remaining: 257ms
190: learn: 1622.5525865 test: 1665.6981551 best: 1665.6981551 (190) total: 4.91s remaining: 231ms
191: learn: 1622.0917174 test: 1665.4319062 best: 1665.4319062 (191) total: 4.93s remaining: 205ms
192: learn: 1621.2692487 test: 1664.9068941 best: 1664.9068941 (192) total: 4.95s remaining: 180ms
193: learn: 1620.6849894 test: 1664.5677402 best: 1664.5677402 (193) total: 4.98s remaining: 154ms
194: learn: 1620.2947356 test: 1664.3595825 best: 1664.3595825 (194) total: 5s remaining: 128ms
195: learn: 1619.2003493 test: 1663.7437093 best: 1663.7437093 (195) total: 5.03s remaining: 103ms
196: learn: 1617.8075028 test: 1662.7106170 best: 1662.7106170 (196) total: 5.06s remaining: 77ms
197: learn: 1617.0122667 test: 1662.3036544 best: 1662.3036544 (197) total: 5.08s remaining: 51.4ms
198: learn: 1616.5196836 test: 1661.9750290 best: 1661.9750290 (198) total: 5.11s remaining: 25.7ms
199: learn: 1615.5704667 test: 1661.4268939 best: 1661.4268939 (199) total: 5.13s remaining: 0us

bestTest = 1661.426894

bestIteration = 199

93: loss: 1661.4268939 best: 1659.4456750 (89) total: 4m 25s remaining: 5.65s
0: learn: 6802.8922893 test: 6830.2031252 best: 6830.2031252 (0) total: 28.6ms remaining: 5.7s
1: learn: 6629.3290875 test: 6656.3865140 best: 6656.3865140 (1) total: 55.3ms remaining: 5.47s
2: learn: 6461.0604191 test: 6488.0114085 best: 6488.0114085 (2) total: 82.5ms remaining: 5.42s
3: learn: 6299.8486120 test: 6327.0585719 best: 6327.0585719 (3) total: 110ms remaining: 5.4s
4: learn: 6144.0966929 test: 6170.9398090 best: 6170.9398090 (4) total: 140ms remaining: 5.45s
5: learn: 5992.5857509 test: 6019.2821406 best: 6019.2821406 (5) total: 166ms remaining: 5.36s
6: learn: 5845.8798797 test: 5872.5646286 best: 5872.5646286 (6) total: 191ms remaining: 5.28s
7: learn: 5704.9582191 test: 5731.3230184 best: 5731.3230184 (7) total: 221ms remaining: 5.31s
8: learn: 5568.2569362 test: 5594.2785171 best: 5594.2785171 (8) total: 249ms remaining: 5.29s
9: learn: 5435.4267533 test: 5461.1685405 best: 5461.1685405 (9) total: 280ms remaining: 5.31s
10: learn: 5306.7204150 test: 5332.8616043 best: 5332.8616043 (10) total: 312ms remaining: 5.36s
11: learn: 5182.8867002 test: 5208.8747353 best: 5208.8747353 (11) total: 343ms remaining: 5.38s
12: learn: 5064.5257150 test: 5090.2073841 best: 5090.2073841 (12) total: 375ms remaining: 5.4s
13: learn: 4948.0213951 test: 4973.4579253 best: 4973.4579253 (13) total: 402ms remaining: 5.34s
14: learn: 4835.8694855 test: 4860.8740946 best: 4860.8740946 (14) total: 430ms remaining: 5.3s
15: learn: 4728.4517822 test: 4753.2946431 best: 4753.2946431 (15) total: 458ms remaining: 5.27s
16: learn: 4623.8167088 test: 4647.9953900 best: 4647.9953900 (16) total: 484ms remaining: 5.21s
17: learn: 4523.1594626 test: 4547.0844260 best: 4547.0844260 (17) total: 515ms remaining: 5.2s
18: learn: 4425.6534281 test: 4449.1615621 best: 4449.1615621 (18) total: 541ms remaining: 5.15s
19: learn: 4329.9985067 test: 4353.3462871 best: 4353.3462871 (19) total: 568ms remaining: 5.11s
20: learn: 4239.0497527 test: 4261.9184291 best: 4261.9184291 (20) total: 594ms remaining: 5.07s
21: learn: 4151.2013028 test: 4173.6974147 best: 4173.6974147 (21) total: 622ms remaining: 5.03s
22: learn: 4067.6470194 test: 4089.8859627 best: 4089.8859627 (22) total: 651ms remaining: 5.01s
23: learn: 3985.6430407 test: 4007.5371664 best: 4007.5371664 (23) total: 677ms remaining: 4.96s
24: learn: 3908.0681339 test: 3929.3324847 best: 3929.3324847 (24) total: 705ms remaining: 4.93s
25: learn: 3832.2514295 test: 3853.0230595 best: 3853.0230595 (25) total: 735ms remaining: 4.92s
26: learn: 3760.4389477 test: 3780.9511628 best: 3780.9511628 (26) total: 761ms remaining: 4.88s
27: learn: 3690.0703584 test: 3710.0801024 best: 3710.0801024 (27) total: 788ms remaining: 4.84s
28: learn: 3622.6258636 test: 3642.3231589 best: 3642.3231589 (28) total: 818ms remaining: 4.82s
29: learn: 3557.1787077 test: 3576.3833110 best: 3576.3833110 (29) total: 848ms remaining: 4.8s
30: learn: 3494.0585233 test: 3512.9403964 best: 3512.9403964 (30) total: 873ms remaining: 4.76s
31: learn: 3433.8676539 test: 3452.2884021 best: 3452.2884021 (31) total: 898ms remaining: 4.71s
32: learn: 3374.2312123 test: 3392.2622950 best: 3392.2622950 (32) total: 926ms remaining: 4.68s
33: learn: 3317.3383020 test: 3335.1268401 best: 3335.1268401 (33) total: 953ms remaining: 4.65s
34: learn: 3262.0687236 test: 3279.2616710 best: 3279.2616710 (34) total: 979ms remaining: 4.61s
35: learn: 3209.0030027 test: 3225.8553909 best: 3225.8553909 (35) total: 1.01s remaining: 4.59s
36: learn: 3157.7198799 test: 3174.0713109 best: 3174.0713109 (36) total: 1.03s remaining: 4.55s
37: learn: 3108.5241470 test: 3124.6826496 best: 3124.6826496 (37) total: 1.06s remaining: 4.52s
38: learn: 3062.1813469 test: 3077.9084924 best: 3077.9084924 (38) total: 1.09s remaining: 4.49s

39: learn: 3018.7814994 test: 3034.1274114 best: 3034.1274114 (39) total: 1.12s remaining: 4.49s
40: learn: 2976.3547979 test: 2991.3249760 best: 2991.3249760 (40) total: 1.15s remaining: 4.46s
41: learn: 2935.4725071 test: 2949.9189164 best: 2949.9189164 (41) total: 1.18s remaining: 4.42s
42: learn: 2895.9878888 test: 2910.2056486 best: 2910.2056486 (42) total: 1.2s remaining: 4.39s
43: learn: 2857.3230495 test: 2871.1126085 best: 2871.1126085 (43) total: 1.23s remaining: 4.37s
44: learn: 2821.0974047 test: 2834.3363850 best: 2834.3363850 (44) total: 1.26s remaining: 4.33s
45: learn: 2786.1145256 test: 2798.8055682 best: 2798.8055682 (45) total: 1.28s remaining: 4.29s
46: learn: 2752.9055936 test: 2765.1628205 best: 2765.1628205 (46) total: 1.31s remaining: 4.26s
47: learn: 2719.8960132 test: 2731.8027251 best: 2731.8027251 (47) total: 1.33s remaining: 4.22s
48: learn: 2689.5547904 test: 2701.0030382 best: 2701.0030382 (48) total: 1.36s remaining: 4.2s
49: learn: 2659.7544844 test: 2671.1175149 best: 2671.1175149 (49) total: 1.39s remaining: 4.17s
50: learn: 2630.4583201 test: 2641.2359818 best: 2641.2359818 (50) total: 1.43s remaining: 4.17s
51: learn: 2603.4625820 test: 2614.1755852 best: 2614.1755852 (51) total: 1.45s remaining: 4.14s
52: learn: 2577.5369690 test: 2587.7198061 best: 2587.7198061 (52) total: 1.48s remaining: 4.1s
53: learn: 2551.9419034 test: 2561.5521122 best: 2561.5521122 (53) total: 1.5s remaining: 4.07s
54: learn: 2527.6212933 test: 2536.9619986 best: 2536.9619986 (54) total: 1.53s remaining: 4.03s
55: learn: 2504.1313655 test: 2513.2264524 best: 2513.2264524 (55) total: 1.55s remaining: 4s
56: learn: 2480.9842696 test: 2489.9181855 best: 2489.9181855 (56) total: 1.58s remaining: 3.96s
57: learn: 2458.6387159 test: 2467.2583935 best: 2467.2583935 (57) total: 1.6s remaining: 3.92s
58: learn: 2437.6741646 test: 2445.9082369 best: 2445.9082369 (58) total: 1.63s remaining: 3.89s
59: learn: 2417.6553320 test: 2425.3975085 best: 2425.3975085 (59) total: 1.65s remaining: 3.86s
60: learn: 2398.3857225 test: 2405.7996476 best: 2405.7996476 (60) total: 1.68s remaining: 3.82s
61: learn: 2379.7015210 test: 2386.7144702 best: 2386.7144702 (61) total: 1.71s remaining: 3.79s
62: learn: 2362.1514249 test: 2368.9323598 best: 2368.9323598 (62) total: 1.73s remaining: 3.77s
63: learn: 2342.3212734 test: 2348.8243196 best: 2348.8243196 (63) total: 1.76s remaining: 3.74s
64: learn: 2324.2769345 test: 2330.4944945 best: 2330.4944945 (64) total: 1.79s remaining: 3.71s
65: learn: 2309.1016603 test: 2314.8917358 best: 2314.8917358 (65) total: 1.82s remaining: 3.69s
66: learn: 2294.1221997 test: 2299.4342379 best: 2299.4342379 (66) total: 1.84s remaining: 3.66s
67: learn: 2280.2375835 test: 2285.2327867 best: 2285.2327867 (67) total: 1.87s remaining: 3.63s
68: learn: 2265.2408087 test: 2269.8992863 best: 2269.8992863 (68) total: 1.9s remaining: 3.6s
69: learn: 2251.9704796 test: 2256.2412989 best: 2256.2412989 (69) total: 1.92s remaining: 3.57s
70: learn: 2237.2731125 test: 2241.2636951 best: 2241.2636951 (70) total: 1.95s remaining: 3.54s
71: learn: 2224.6707136 test: 2228.4513297 best: 2228.4513297 (71) total: 1.97s remaining: 3.5s
72: learn: 2212.9708124 test: 2216.2483476 best: 2216.2483476 (72) total: 1.99s remaining: 3.47s
73: learn: 2201.4969143 test: 2204.6160704 best: 2204.6160704 (73) total: 2.02s remaining: 3.44s
74: learn: 2189.9951798 test: 2192.9622202 best: 2192.9622202 (74) total: 2.05s remaining: 3.41s
75: learn: 2179.3002268 test: 2182.0585495 best: 2182.0585495 (75) total: 2.07s remaining: 3.38s
76: learn: 2168.4558065 test: 2171.0169040 best: 2171.0169040 (76) total: 2.09s remaining: 3.35s
77: learn: 2159.0508656 test: 2161.2577082 best: 2161.2577082 (77) total: 2.12s remaining: 3.31s
78: learn: 2148.6988455 test: 2150.5672854 best: 2150.5672854 (78) total: 2.15s remaining: 3.29s
79: learn: 2137.8717737 test: 2139.6367994 best: 2139.6367994 (79) total: 2.17s remaining: 3.26s
80: learn: 2129.2617506 test: 2129.8490212 best: 2129.8490212 (80) total: 2.19s remaining: 3.22s

80: learn: 2126.2617506 test: 2129.8460213 best: 2129.8460213 (80) total: 2.19s remaining: 3.22s
81: learn: 2119.3912449 test: 2120.8399171 best: 2120.8399171 (81) total: 2.23s remaining: 3.21s
82: learn: 2109.9028984 test: 2111.2151280 best: 2111.2151280 (82) total: 2.26s remaining: 3.19s
83: learn: 2102.1034030 test: 2103.1393202 best: 2103.1393202 (83) total: 2.29s remaining: 3.16s
84: learn: 2094.5443348 test: 2095.4367369 best: 2095.4367369 (84) total: 2.32s remaining: 3.14s
85: learn: 2085.7504637 test: 2086.4470940 best: 2086.4470940 (85) total: 2.35s remaining: 3.12s
86: learn: 2077.2565473 test: 2077.8847107 best: 2077.8847107 (86) total: 2.38s remaining: 3.09s
87: learn: 2070.2848510 test: 2070.7520735 best: 2070.7520735 (87) total: 2.42s remaining: 3.08s
88: learn: 2062.4344269 test: 2062.5804245 best: 2062.5804245 (88) total: 2.45s remaining: 3.05s
89: learn: 2056.2421994 test: 2056.0988182 best: 2056.0988182 (89) total: 2.47s remaining: 3.02s
90: learn: 2049.7618415 test: 2049.4321916 best: 2049.4321916 (90) total: 2.5s remaining: 3s
91: learn: 2043.8221562 test: 2043.3753721 best: 2043.3753721 (91) total: 2.53s remaining: 2.97s
92: learn: 2037.8943859 test: 2037.3294598 best: 2037.3294598 (92) total: 2.55s remaining: 2.94s
93: learn: 2032.0177234 test: 2031.3609418 best: 2031.3609418 (93) total: 2.58s remaining: 2.91s
94: learn: 2026.2105965 test: 2025.3069270 best: 2025.3069270 (94) total: 2.6s remaining: 2.88s
95: learn: 2019.9679158 test: 2019.0243915 best: 2019.0243915 (95) total: 2.63s remaining: 2.85s
96: learn: 2014.8845453 test: 2013.6466050 best: 2013.6466050 (96) total: 2.65s remaining: 2.82s
97: learn: 2009.7873267 test: 2008.6033739 best: 2008.6033739 (97) total: 2.68s remaining: 2.79s
98: learn: 2004.0907106 test: 2002.9029754 best: 2002.9029754 (98) total: 2.71s remaining: 2.76s
99: learn: 1999.2696843 test: 1998.0323196 best: 1998.0323196 (99) total: 2.73s remaining: 2.73s
100: learn: 1994.5865906 test: 1993.2762743 best: 1993.2762743 (100) total: 2.76s remaining: 2.71s
101: learn: 1989.5942120 test: 1988.0779853 best: 1988.0779853 (101) total: 2.78s remaining: 2.67s
102: learn: 1985.4611363 test: 1983.8025045 best: 1983.8025045 (102) total: 2.81s remaining: 2.65s
103: learn: 1980.2128543 test: 1978.4625378 best: 1978.4625378 (103) total: 2.84s remaining: 2.62s
104: learn: 1975.3982871 test: 1973.5730919 best: 1973.5730919 (104) total: 2.86s remaining: 2.59s
105: learn: 1971.2974218 test: 1969.3669070 best: 1969.3669070 (105) total: 2.89s remaining: 2.56s
106: learn: 1967.6899643 test: 1965.5948986 best: 1965.5948986 (106) total: 2.92s remaining: 2.54s
107: learn: 1963.9898890 test: 1961.7507987 best: 1961.7507987 (107) total: 2.94s remaining: 2.51s
108: learn: 1960.4592592 test: 1958.1301546 best: 1958.1301546 (108) total: 2.96s remaining: 2.48s
109: learn: 1956.2889191 test: 1953.9732546 best: 1953.9732546 (109) total: 2.99s remaining: 2.45s
110: learn: 1952.9837977 test: 1950.5727836 best: 1950.5727836 (110) total: 3.02s remaining: 2.42s
111: learn: 1949.8403450 test: 1947.2750752 best: 1947.2750752 (111) total: 3.04s remaining: 2.39s
112: learn: 1946.5832854 test: 1943.9612961 best: 1943.9612961 (112) total: 3.07s remaining: 2.36s
113: learn: 1942.9091265 test: 1940.2452772 best: 1940.2452772 (113) total: 3.1s remaining: 2.34s
114: learn: 1939.7016481 test: 1936.8983956 best: 1936.8983956 (114) total: 3.12s remaining: 2.31s
115: learn: 1936.0294764 test: 1933.2218097 best: 1933.2218097 (115) total: 3.15s remaining: 2.28s
116: learn: 1932.6650826 test: 1929.7330497 best: 1929.7330497 (116) total: 3.18s remaining: 2.25s
117: learn: 1929.5701961 test: 1926.7130018 best: 1926.7130018 (117) total: 3.21s remaining: 2.23s
118: learn: 1926.6205557 test: 1923.7401016 best: 1923.7401016 (118) total: 3.23s remaining: 2.2s
119: learn: 1923.8051920 test: 1920.7679989 best: 1920.7679989 (119) total: 3.26s remaining: 2.17s
120: learn: 1921.3473942 test: 1918.4420696 best: 1918.4420696 (120) total: 3.28s remaining: 2.14s
121: learn: 1918.9296373 test: 1915.9660597 best: 1915.9660597 (121) total: 3.31s remaining: 2.12s

122: learn: 1916.4551382 test: 1913.5113081 best: 1913.5113081 (122) total: 3.33s remaining: 2.09s
123: learn: 1914.0517635 test: 1911.1422434 best: 1911.1422434 (123) total: 3.36s remaining: 2.06s
124: learn: 1911.5023699 test: 1908.5654649 best: 1908.5654649 (124) total: 3.39s remaining: 2.03s
125: learn: 1909.0650473 test: 1906.1148108 best: 1906.1148108 (125) total: 3.43s remaining: 2.02s
126: learn: 1906.8592941 test: 1903.6533594 best: 1903.6533594 (126) total: 3.47s remaining: 1.99s
127: learn: 1904.7754206 test: 1901.4888672 best: 1901.4888672 (127) total: 3.5s remaining: 1.97s
128: learn: 1902.4347144 test: 1899.0821024 best: 1899.0821024 (128) total: 3.52s remaining: 1.94s
129: learn: 1900.4323237 test: 1897.0008513 best: 1897.0008513 (129) total: 3.54s remaining: 1.91s
130: learn: 1898.0365682 test: 1894.5908616 best: 1894.5908616 (130) total: 3.57s remaining: 1.88s
131: learn: 1895.9537783 test: 1892.4762270 best: 1892.4762270 (131) total: 3.6s remaining: 1.85s
132: learn: 1894.0440519 test: 1890.6183440 best: 1890.6183440 (132) total: 3.62s remaining: 1.82s
133: learn: 1891.9678571 test: 1888.4975498 best: 1888.4975498 (133) total: 3.65s remaining: 1.8s
134: learn: 1889.8411851 test: 1886.4466905 best: 1886.4466905 (134) total: 3.68s remaining: 1.77s
135: learn: 1887.9114503 test: 1884.6239675 best: 1884.6239675 (135) total: 3.71s remaining: 1.74s
136: learn: 1886.1544728 test: 1883.1077706 best: 1883.1077706 (136) total: 3.73s remaining: 1.72s
137: learn: 1884.0956277 test: 1881.1103597 best: 1881.1103597 (137) total: 3.75s remaining: 1.69s
138: learn: 1882.3682700 test: 1879.4153745 best: 1879.4153745 (138) total: 3.78s remaining: 1.66s
139: learn: 1880.7000364 test: 1877.7101773 best: 1877.7101773 (139) total: 3.8s remaining: 1.63s
140: learn: 1878.9330228 test: 1875.9553593 best: 1875.9553593 (140) total: 3.83s remaining: 1.6s
141: learn: 1877.3406219 test: 1874.4375789 best: 1874.4375789 (141) total: 3.85s remaining: 1.57s
142: learn: 1875.8445327 test: 1872.9570821 best: 1872.9570821 (142) total: 3.88s remaining: 1.54s
143: learn: 1873.9624523 test: 1871.0595159 best: 1871.0595159 (143) total: 3.9s remaining: 1.52s
144: learn: 1872.3938810 test: 1869.5266504 best: 1869.5266504 (144) total: 3.93s remaining: 1.49s
145: learn: 1870.8303233 test: 1867.9879784 best: 1867.9879784 (145) total: 3.95s remaining: 1.46s
146: learn: 1869.0696471 test: 1866.3372242 best: 1866.3372242 (146) total: 3.98s remaining: 1.43s
147: learn: 1867.7317274 test: 1864.9962743 best: 1864.9962743 (147) total: 4s remaining: 1.41s
148: learn: 1866.1409362 test: 1863.3838729 best: 1863.3838729 (148) total: 4.03s remaining: 1.38s
149: learn: 1864.9395215 test: 1862.2309416 best: 1862.2309416 (149) total: 4.05s remaining: 1.35s
150: learn: 1863.7116639 test: 1861.0872313 best: 1861.0872313 (150) total: 4.07s remaining: 1.32s
151: learn: 1862.2556069 test: 1859.7232200 best: 1859.7232200 (151) total: 4.1s remaining: 1.29s
152: learn: 1860.8930395 test: 1858.3703209 best: 1858.3703209 (152) total: 4.13s remaining: 1.27s
153: learn: 1859.2809166 test: 1856.8830525 best: 1856.8830525 (153) total: 4.15s remaining: 1.24s
154: learn: 1858.0991159 test: 1855.7842744 best: 1855.7842744 (154) total: 4.17s remaining: 1.21s
155: learn: 1856.6430523 test: 1854.3014690 best: 1854.3014690 (155) total: 4.2s remaining: 1.19s
156: learn: 1855.3620572 test: 1853.0936025 best: 1853.0936025 (156) total: 4.23s remaining: 1.16s
157: learn: 1853.7975619 test: 1851.7235100 best: 1851.7235100 (157) total: 4.25s remaining: 1.13s
158: learn: 1852.2297905 test: 1850.2580202 best: 1850.2580202 (158) total: 4.28s remaining: 1.1s
159: learn: 1850.6926428 test: 1848.6154664 best: 1848.6154664 (159) total: 4.3s remaining: 1.07s
160: learn: 1849.4909320 test: 1847.5884612 best: 1847.5884612 (160) total: 4.33s remaining: 1.05s
161: learn: 1848.5110979 test: 1846.6514911 best: 1846.6514911 (161) total: 4.35s remaining: 1.02s
162: learn: 1847.2161573 test: 1845.3372372 best: 1845.3372372 (162) total: 4.38s remaining: 994ms

163: learn: 1846.3028519 test: 1844.5072391 best: 1844.5072391 (163) total: 4.41s remaining: 967ms
164: learn: 1844.7788419 test: 1843.3476479 best: 1843.3476479 (164) total: 4.43s remaining: 940ms
165: learn: 1843.6520452 test: 1842.2233221 best: 1842.2233221 (165) total: 4.45s remaining: 912ms
166: learn: 1842.3188317 test: 1840.9401553 best: 1840.9401553 (166) total: 4.48s remaining: 886ms
167: learn: 1841.1645882 test: 1839.7641541 best: 1839.7641541 (167) total: 4.5s remaining: 858ms
168: learn: 1839.9582204 test: 1838.6146645 best: 1838.6146645 (168) total: 4.53s remaining: 831ms
169: learn: 1838.9425994 test: 1837.4799894 best: 1837.4799894 (169) total: 4.55s remaining: 803ms
170: learn: 1837.7745430 test: 1836.4230508 best: 1836.4230508 (170) total: 4.58s remaining: 776ms
171: learn: 1836.8634851 test: 1835.3599456 best: 1835.3599456 (171) total: 4.6s remaining: 749ms
172: learn: 1836.0170199 test: 1834.5282241 best: 1834.5282241 (172) total: 4.63s remaining: 722ms
173: learn: 1835.1749280 test: 1833.6827144 best: 1833.6827144 (173) total: 4.65s remaining: 695ms
174: learn: 1834.2786550 test: 1832.8372091 best: 1832.8372091 (174) total: 4.67s remaining: 667ms
175: learn: 1832.8912463 test: 1831.7435008 best: 1831.7435008 (175) total: 4.7s remaining: 641ms
176: learn: 1831.7291785 test: 1830.7835706 best: 1830.7835706 (176) total: 4.72s remaining: 614ms
177: learn: 1830.7240778 test: 1829.7596247 best: 1829.7596247 (177) total: 4.75s remaining: 587ms
178: learn: 1828.7742865 test: 1827.8087847 best: 1827.8087847 (178) total: 4.77s remaining: 560ms
179: learn: 1827.8101394 test: 1826.9108047 best: 1826.9108047 (179) total: 4.8s remaining: 534ms
180: learn: 1827.0058808 test: 1826.1440881 best: 1826.1440881 (180) total: 4.82s remaining: 506ms
181: learn: 1826.1791546 test: 1825.2486151 best: 1825.2486151 (181) total: 4.85s remaining: 479ms
182: learn: 1824.9963233 test: 1824.1006421 best: 1824.1006421 (182) total: 4.87s remaining: 453ms
183: learn: 1824.0629773 test: 1823.2515960 best: 1823.2515960 (183) total: 4.89s remaining: 426ms
184: learn: 1822.9998787 test: 1822.2442881 best: 1822.2442881 (184) total: 4.92s remaining: 399ms
185: learn: 1822.0787780 test: 1821.3543172 best: 1821.3543172 (185) total: 4.94s remaining: 372ms
186: learn: 1821.3572574 test: 1820.6669071 best: 1820.6669071 (186) total: 4.96s remaining: 345ms
187: learn: 1820.4237923 test: 1819.7472159 best: 1819.7472159 (187) total: 4.99s remaining: 319ms
188: learn: 1819.0367925 test: 1818.4037709 best: 1818.4037709 (188) total: 5.01s remaining: 292ms
189: learn: 1818.0571794 test: 1817.4406785 best: 1817.4406785 (189) total: 5.04s remaining: 265ms
190: learn: 1817.3645737 test: 1816.8286074 best: 1816.8286074 (190) total: 5.07s remaining: 239ms
191: learn: 1816.4994317 test: 1815.9256002 best: 1815.9256002 (191) total: 5.09s remaining: 212ms
192: learn: 1815.1394943 test: 1814.9791024 best: 1814.9791024 (192) total: 5.12s remaining: 186ms
193: learn: 1814.3033498 test: 1814.1752814 best: 1814.1752814 (193) total: 5.14s remaining: 159ms
194: learn: 1813.4736135 test: 1813.4324873 best: 1813.4324873 (194) total: 5.17s remaining: 132ms
195: learn: 1812.3283784 test: 1812.2888720 best: 1812.2888720 (195) total: 5.2s remaining: 106ms
196: learn: 1811.4338392 test: 1811.4847568 best: 1811.4847568 (196) total: 5.22s remaining: 79.5ms
197: learn: 1809.8545793 test: 1810.1648764 best: 1810.1648764 (197) total: 5.24s remaining: 53ms
198: learn: 1809.0454142 test: 1809.3078571 best: 1809.3078571 (198) total: 5.27s remaining: 26.5ms
199: learn: 1808.4504654 test: 1808.7616208 best: 1808.7616208 (199) total: 5.29s remaining: 0us

bestTest = 1808.761621

bestIteration = 199

94: loss: 1808.7616208 best: 1659.4456750 (89) total: 4m 31s remaining: 2.85s
0: learn: 6387.9010709 test: 6413.3781034 best: 6413.3781034 (0) total: 27.5ms remaining: 5.48s
1: learn: 5857.7361685 test: 5883.0145157 best: 5883.0145157 (1) total: 54.8ms remaining: 5.43s
2: learn: 5385.4612462 test: 5410.4054427 best: 5410.4054427 (2) total: 92ms remaining: 6.04s
3: learn: 4968.3279829 test: 4992.7986362 best: 4992.7986362 (3) total: 120ms remaining: 5.88s
4: learn: 4604.2861747 test: 4627.5190614 best: 4627.5190614 (4) total: 146ms remaining: 5.68s
5: learn: 4276.5912415 test: 4298.1193694 best: 4298.1193694 (5) total: 172ms remaining: 5.56s
6: learn: 3984.2714208 test: 4004.3133089 best: 4004.3133089 (6) total: 197ms remaining: 5.44s
7: learn: 3724.8725215 test: 3743.4165792 best: 3743.4165792 (7) total: 222ms remaining: 5.34s
8: learn: 3498.8069486 test: 3515.1739170 best: 3515.1739170 (8) total: 247ms remaining: 5.25s
9: learn: 3296.4359331 test: 3311.8703973 best: 3311.8703973 (9) total: 278ms remaining: 5.28s
10: learn: 3124.4684869 test: 3138.7015747 best: 3138.7015747 (10) total: 303ms remaining: 5.2s
11: learn: 2968.7215631 test: 2981.8511436 best: 2981.8511436 (11) total: 329ms remaining: 5.16s
12: learn: 2832.3591441 test: 2844.5337024 best: 2844.5337024 (12) total: 355ms remaining: 5.1s
13: learn: 2717.0455280 test: 2727.3368868 best: 2727.3368868 (13) total: 381ms remaining: 5.06s
14: learn: 2616.2504840 test: 2625.8865165 best: 2625.8865165 (14) total: 407ms remaining: 5.02s
15: learn: 2528.8610287 test: 2537.8699620 best: 2537.8699620 (15) total: 435ms remaining: 5s
16: learn: 2453.6041198 test: 2461.6902077 best: 2461.6902077 (16) total: 463ms remaining: 4.99s
17: learn: 2387.9347882 test: 2394.8503757 best: 2394.8503757 (17) total: 493ms remaining: 4.98s
18: learn: 2330.2487493 test: 2335.9185216 best: 2335.9185216 (18) total: 520ms remaining: 4.95s
19: learn: 2269.8023601 test: 2274.5089256 best: 2274.5089256 (19) total: 548ms remaining: 4.93s
20: learn: 2220.0329665 test: 2224.3304133 best: 2224.3304133 (20) total: 579ms remaining: 4.93s
21: learn: 2181.0896109 test: 2184.2260630 best: 2184.2260630 (21) total: 604ms remaining: 4.89s
22: learn: 2142.4700588 test: 2145.1335560 best: 2145.1335560 (22) total: 630ms remaining: 4.85s
23: learn: 2114.3157333 test: 2116.2607277 best: 2116.2607277 (23) total: 655ms remaining: 4.8s
24: learn: 2089.5064498 test: 2089.8641521 best: 2089.8641521 (24) total: 684ms remaining: 4.79s
25: learn: 2066.9655683 test: 2066.7504462 best: 2066.7504462 (25) total: 711ms remaining: 4.75s
26: learn: 2042.4850624 test: 2041.6361624 best: 2041.6361624 (26) total: 737ms remaining: 4.72s
27: learn: 2021.8285034 test: 2020.6759458 best: 2020.6759458 (27) total: 764ms remaining: 4.69s
28: learn: 2004.5055127 test: 2002.7889272 best: 2002.7889272 (28) total: 794ms remaining: 4.68s
29: learn: 1989.6743905 test: 1987.7392775 best: 1987.7392775 (29) total: 817ms remaining: 4.63s
30: learn: 1976.0207548 test: 1973.5665854 best: 1973.5665854 (30) total: 842ms remaining: 4.59s
31: learn: 1962.0600142 test: 1959.4232699 best: 1959.4232699 (31) total: 867ms remaining: 4.55s
32: learn: 1948.3152161 test: 1946.0963252 best: 1946.0963252 (32) total: 894ms remaining: 4.53s
33: learn: 1938.2497610 test: 1935.4686840 best: 1935.4686840 (33) total: 918ms remaining: 4.48s
34: learn: 1928.6827673 test: 1925.6190450 best: 1925.6190450 (34) total: 944ms remaining: 4.45s
35: learn: 1920.8549003 test: 1917.9445418 best: 1917.9445418 (35) total: 972ms remaining: 4.43s
36: learn: 1912.6610899 test: 1909.7816534 best: 1909.7816534 (36) total: 997ms remaining: 4.39s
37: learn: 1905.8685598 test: 1902.6529879 best: 1902.6529879 (37) total: 1.02s remaining: 4.35s
38: learn: 1899.2590021 test: 1896.0134875 best: 1896.0134875 (38) total: 1.04s remaining: 4.31s
39: learn: 1892.3005360 test: 1889.5640103 best: 1889.5640103 (39) total: 1.07s remaining: 4.28s
40: learn: 1885.0470043 test: 1882.2146572 best: 1882.2146572 (40) total: 1.1s remaining: 4.25s

40: learn: 1883.0470043 test: 1882.2140372 best: 1882.2140372 (40) total: 1.1s remaining: 4.23s
41: learn: 1878.0513773 test: 1875.2864543 best: 1875.2864543 (41) total: 1.12s remaining: 4.23s
42: learn: 1873.4304123 test: 1870.9155275 best: 1870.9155275 (42) total: 1.15s remaining: 4.21s
43: learn: 1869.0925004 test: 1866.2241016 best: 1866.2241016 (43) total: 1.19s remaining: 4.2s
44: learn: 1864.5230117 test: 1861.7415109 best: 1861.7415109 (44) total: 1.21s remaining: 4.17s
45: learn: 1860.1391258 test: 1857.5767666 best: 1857.5767666 (45) total: 1.23s remaining: 4.13s
46: learn: 1855.2640928 test: 1853.4231196 best: 1853.4231196 (46) total: 1.26s remaining: 4.1s
47: learn: 1851.2354074 test: 1849.4276914 best: 1849.4276914 (47) total: 1.28s remaining: 4.06s
48: learn: 1846.9896834 test: 1845.5802811 best: 1845.5802811 (48) total: 1.31s remaining: 4.03s
49: learn: 1843.2531454 test: 1841.6700138 best: 1841.6700138 (49) total: 1.33s remaining: 3.99s
50: learn: 1836.3693930 test: 1834.6560019 best: 1834.6560019 (50) total: 1.36s remaining: 3.96s
51: learn: 1832.0469124 test: 1830.4991259 best: 1830.4991259 (51) total: 1.38s remaining: 3.94s
52: learn: 1829.2154984 test: 1827.6918723 best: 1827.6918723 (52) total: 1.41s remaining: 3.9s
53: learn: 1825.1672766 test: 1823.6641213 best: 1823.6641213 (53) total: 1.43s remaining: 3.88s
54: learn: 1820.6182549 test: 1819.7448864 best: 1819.7448864 (54) total: 1.46s remaining: 3.85s
55: learn: 1818.1585506 test: 1817.4209895 best: 1817.4209895 (55) total: 1.49s remaining: 3.82s
56: learn: 1815.2885875 test: 1814.4175023 best: 1814.4175023 (56) total: 1.51s remaining: 3.79s
57: learn: 1812.4425248 test: 1811.7167641 best: 1811.7167641 (57) total: 1.54s remaining: 3.76s
58: learn: 1809.6258140 test: 1809.0363044 best: 1809.0363044 (58) total: 1.56s remaining: 3.73s
59: learn: 1806.8993740 test: 1806.5133270 best: 1806.5133270 (59) total: 1.59s remaining: 3.71s
60: learn: 1804.4226863 test: 1804.2579825 best: 1804.2579825 (60) total: 1.61s remaining: 3.67s
61: learn: 1802.5316464 test: 1802.2048044 best: 1802.2048044 (61) total: 1.63s remaining: 3.64s
62: learn: 1799.8589297 test: 1799.7090940 best: 1799.7090940 (62) total: 1.66s remaining: 3.61s
63: learn: 1797.7861776 test: 1797.6948666 best: 1797.6948666 (63) total: 1.68s remaining: 3.58s
64: learn: 1795.1954924 test: 1795.3852308 best: 1795.3852308 (64) total: 1.71s remaining: 3.55s
65: learn: 1792.8066509 test: 1793.7648777 best: 1793.7648777 (65) total: 1.73s remaining: 3.52s
66: learn: 1790.7223777 test: 1791.6953105 best: 1791.6953105 (66) total: 1.76s remaining: 3.49s
67: learn: 1788.1503899 test: 1788.9158249 best: 1788.9158249 (67) total: 1.79s remaining: 3.47s
68: learn: 1786.5898617 test: 1787.6733857 best: 1787.6733857 (68) total: 1.81s remaining: 3.44s
69: learn: 1784.5547634 test: 1786.0130899 best: 1786.0130899 (69) total: 1.83s remaining: 3.41s
70: learn: 1782.6620501 test: 1784.5590813 best: 1784.5590813 (70) total: 1.86s remaining: 3.38s
71: learn: 1780.8179918 test: 1782.9505290 best: 1782.9505290 (71) total: 1.88s remaining: 3.35s
72: learn: 1778.9116646 test: 1780.8985630 best: 1780.8985630 (72) total: 1.91s remaining: 3.32s
73: learn: 1777.4393425 test: 1779.2831979 best: 1779.2831979 (73) total: 1.93s remaining: 3.29s
74: learn: 1776.0938031 test: 1778.0813337 best: 1778.0813337 (74) total: 1.96s remaining: 3.27s
75: learn: 1773.5661356 test: 1775.8790087 best: 1775.8790087 (75) total: 1.99s remaining: 3.25s
76: learn: 1770.1176442 test: 1772.9262836 best: 1772.9262836 (76) total: 2.02s remaining: 3.22s
77: learn: 1766.9497531 test: 1770.3538584 best: 1770.3538584 (77) total: 2.04s remaining: 3.2s
78: learn: 1764.1982890 test: 1768.2758488 best: 1768.2758488 (78) total: 2.07s remaining: 3.18s
79: learn: 1761.1860245 test: 1765.6908421 best: 1765.6908421 (79) total: 2.1s remaining: 3.15s
80: learn: 1759.1664186 test: 1763.9345608 best: 1763.9345608 (80) total: 2.13s remaining: 3.13s
81: learn: 1757.8480850 test: 1762.9325503 best: 1762.9325503 (81) total: 2.15s remaining: 3.1s

82: learn: 1755.8853734 test: 1761.1411724 best: 1761.1411724 (82) total: 2.18s remaining: 3.07s
83: learn: 1754.8563371 test: 1760.3942170 best: 1760.3942170 (83) total: 2.2s remaining: 3.04s
84: learn: 1753.1481217 test: 1758.9340410 best: 1758.9340410 (84) total: 2.23s remaining: 3.01s
85: learn: 1751.6267552 test: 1757.6228864 best: 1757.6228864 (85) total: 2.25s remaining: 2.98s
86: learn: 1750.4044227 test: 1756.6752304 best: 1756.6752304 (86) total: 2.28s remaining: 2.96s
87: learn: 1749.0470098 test: 1755.1363859 best: 1755.1363859 (87) total: 2.3s remaining: 2.93s
88: learn: 1747.1973146 test: 1753.2292643 best: 1753.2292643 (88) total: 2.32s remaining: 2.9s
89: learn: 1745.4308455 test: 1751.9675409 best: 1751.9675409 (89) total: 2.35s remaining: 2.87s
90: learn: 1743.1767695 test: 1749.9562699 best: 1749.9562699 (90) total: 2.38s remaining: 2.85s
91: learn: 1741.8737728 test: 1749.1690847 best: 1749.1690847 (91) total: 2.4s remaining: 2.82s
92: learn: 1740.9514239 test: 1748.3137521 best: 1748.3137521 (92) total: 2.42s remaining: 2.79s
93: learn: 1739.5270197 test: 1747.2850863 best: 1747.2850863 (93) total: 2.45s remaining: 2.76s
94: learn: 1737.8493765 test: 1746.2602109 best: 1746.2602109 (94) total: 2.48s remaining: 2.74s
95: learn: 1736.6396812 test: 1745.3383709 best: 1745.3383709 (95) total: 2.5s remaining: 2.71s
96: learn: 1735.0334736 test: 1743.5601955 best: 1743.5601955 (96) total: 2.53s remaining: 2.68s
97: learn: 1733.5714839 test: 1742.6808429 best: 1742.6808429 (97) total: 2.55s remaining: 2.65s
98: learn: 1731.8733378 test: 1741.2235134 best: 1741.2235134 (98) total: 2.58s remaining: 2.63s
99: learn: 1730.3744137 test: 1740.1097340 best: 1740.1097340 (99) total: 2.6s remaining: 2.6s
100: learn: 1729.3667061 test: 1739.2713690 best: 1739.2713690 (100) total: 2.62s remaining: 2.57s
101: learn: 1728.0990018 test: 1738.0258261 best: 1738.0258261 (101) total: 2.65s remaining: 2.54s
102: learn: 1726.0513473 test: 1736.4270885 best: 1736.4270885 (102) total: 2.67s remaining: 2.52s
103: learn: 1724.7958846 test: 1735.4882946 best: 1735.4882946 (103) total: 2.7s remaining: 2.49s
104: learn: 1723.8337495 test: 1734.6289625 best: 1734.6289625 (104) total: 2.72s remaining: 2.46s
105: learn: 1722.4488601 test: 1733.3899406 best: 1733.3899406 (105) total: 2.75s remaining: 2.43s
106: learn: 1721.1150308 test: 1732.2842842 best: 1732.2842842 (106) total: 2.77s remaining: 2.41s
107: learn: 1719.1905214 test: 1730.6841052 best: 1730.6841052 (107) total: 2.81s remaining: 2.39s
108: learn: 1718.2294601 test: 1729.8892333 best: 1729.8892333 (108) total: 2.83s remaining: 2.36s
109: learn: 1717.1942456 test: 1729.0036573 best: 1729.0036573 (109) total: 2.86s remaining: 2.34s
110: learn: 1715.5945455 test: 1727.7347191 best: 1727.7347191 (110) total: 2.89s remaining: 2.32s
111: learn: 1714.4986077 test: 1726.9512389 best: 1726.9512389 (111) total: 2.92s remaining: 2.29s
112: learn: 1713.1768873 test: 1725.6850046 best: 1725.6850046 (112) total: 2.94s remaining: 2.27s
113: learn: 1711.9329409 test: 1724.8159773 best: 1724.8159773 (113) total: 2.97s remaining: 2.24s
114: learn: 1709.8837824 test: 1723.1154897 best: 1723.1154897 (114) total: 3s remaining: 2.22s
115: learn: 1708.6870910 test: 1722.2667011 best: 1722.2667011 (115) total: 3.02s remaining: 2.19s
116: learn: 1707.2157096 test: 1721.3077902 best: 1721.3077902 (116) total: 3.05s remaining: 2.16s
117: learn: 1706.1872944 test: 1720.4961618 best: 1720.4961618 (117) total: 3.08s remaining: 2.14s
118: learn: 1704.5983410 test: 1718.9931150 best: 1718.9931150 (118) total: 3.1s remaining: 2.11s
119: learn: 1703.6679530 test: 1718.6247968 best: 1718.6247968 (119) total: 3.12s remaining: 2.08s
120: learn: 1702.3920172 test: 1717.7638558 best: 1717.7638558 (120) total: 3.15s remaining: 2.05s
121: learn: 1700.7268481 test: 1716.3222965 best: 1716.3222965 (121) total: 3.17s remaining: 2.03s
122: learn: 1699.5414459 test: 1715.1952725 best: 1715.1952725 (122) total: 3.2s remaining: 2s

123: learn: 1698.4034481 test: 1714.4628367 best: 1714.4628367 (123) total: 3.22s remaining: 1.98s
124: learn: 1696.7004023 test: 1712.9218915 best: 1712.9218915 (124) total: 3.25s remaining: 1.95s
125: learn: 1695.9730790 test: 1712.1619075 best: 1712.1619075 (125) total: 3.27s remaining: 1.92s
126: learn: 1694.8691752 test: 1711.2594711 best: 1711.2594711 (126) total: 3.3s remaining: 1.9s
127: learn: 1693.3269128 test: 1709.7072231 best: 1709.7072231 (127) total: 3.33s remaining: 1.87s
128: learn: 1691.8726838 test: 1708.5068789 best: 1708.5068789 (128) total: 3.35s remaining: 1.84s
129: learn: 1690.8020579 test: 1707.6332488 best: 1707.6332488 (129) total: 3.37s remaining: 1.82s
130: learn: 1689.6550153 test: 1707.1172672 best: 1707.1172672 (130) total: 3.4s remaining: 1.79s
131: learn: 1688.2197159 test: 1705.8920206 best: 1705.8920206 (131) total: 3.42s remaining: 1.76s
132: learn: 1687.2939255 test: 1705.2724238 best: 1705.2724238 (132) total: 3.44s remaining: 1.73s
133: learn: 1686.0907687 test: 1704.2838537 best: 1704.2838537 (133) total: 3.47s remaining: 1.71s
134: learn: 1684.8497110 test: 1703.1266569 best: 1703.1266569 (134) total: 3.49s remaining: 1.68s
135: learn: 1683.5184135 test: 1702.4613158 best: 1702.4613158 (135) total: 3.51s remaining: 1.65s
136: learn: 1682.5292089 test: 1701.7329324 best: 1701.7329324 (136) total: 3.54s remaining: 1.63s
137: learn: 1681.4784033 test: 1700.9642696 best: 1700.9642696 (137) total: 3.56s remaining: 1.6s
138: learn: 1680.4468850 test: 1700.2462766 best: 1700.2462766 (138) total: 3.59s remaining: 1.57s
139: learn: 1679.2433505 test: 1699.4539258 best: 1699.4539258 (139) total: 3.61s remaining: 1.55s
140: learn: 1678.2957655 test: 1698.9996650 best: 1698.9996650 (140) total: 3.63s remaining: 1.52s
141: learn: 1677.0993798 test: 1697.8242245 best: 1697.8242245 (141) total: 3.66s remaining: 1.49s
142: learn: 1676.0873958 test: 1697.2809306 best: 1697.2809306 (142) total: 3.68s remaining: 1.47s
143: learn: 1674.8263113 test: 1696.0954192 best: 1696.0954192 (143) total: 3.71s remaining: 1.44s
144: learn: 1673.5031170 test: 1695.2695399 best: 1695.2695399 (144) total: 3.73s remaining: 1.42s
145: learn: 1672.7447518 test: 1694.6066233 best: 1694.6066233 (145) total: 3.76s remaining: 1.39s
146: learn: 1671.2430651 test: 1693.5360184 best: 1693.5360184 (146) total: 3.78s remaining: 1.36s
147: learn: 1670.5364159 test: 1692.9382464 best: 1692.9382464 (147) total: 3.8s remaining: 1.34s
148: learn: 1669.8493364 test: 1692.3381070 best: 1692.3381070 (148) total: 3.83s remaining: 1.31s
149: learn: 1668.8063003 test: 1691.6777338 best: 1691.6777338 (149) total: 3.85s remaining: 1.28s
150: learn: 1667.8409088 test: 1690.7400352 best: 1690.7400352 (150) total: 3.88s remaining: 1.26s
151: learn: 1666.9639698 test: 1690.3030617 best: 1690.3030617 (151) total: 3.9s remaining: 1.23s
152: learn: 1665.7943712 test: 1689.3875732 best: 1689.3875732 (152) total: 3.93s remaining: 1.21s
153: learn: 1664.9809792 test: 1688.7234246 best: 1688.7234246 (153) total: 3.95s remaining: 1.18s
154: learn: 1664.1366356 test: 1688.0766215 best: 1688.0766215 (154) total: 3.98s remaining: 1.15s
155: learn: 1663.1283392 test: 1687.5449673 best: 1687.5449673 (155) total: 4s remaining: 1.13s
156: learn: 1662.4045409 test: 1686.8748850 best: 1686.8748850 (156) total: 4.03s remaining: 1.1s
157: learn: 1661.7556131 test: 1686.5027271 best: 1686.5027271 (157) total: 4.06s remaining: 1.08s
158: learn: 1661.1119683 test: 1686.1520975 best: 1686.1520975 (158) total: 4.09s remaining: 1.05s
159: learn: 1659.9485814 test: 1685.4492582 best: 1685.4492582 (159) total: 4.11s remaining: 1.03s
160: learn: 1659.2229826 test: 1684.8578462 best: 1684.8578462 (160) total: 4.13s remaining: 1s
161: learn: 1658.2235677 test: 1684.1002105 best: 1684.1002105 (161) total: 4.16s remaining: 976ms
162: learn: 1656.4097875 test: 1683.2059737 best: 1683.2059737 (162) total: 4.18s remaining: 950ms
163: learn: 1655.6411331 test: 1682.6055339 best: 1682.6055339 (163) total: 4.21s remaining: 924ms

164: learn: 1654.8495370 test: 1682.0200960 best: 1682.0200960 (164) total: 4.23s remaining: 898ms
165: learn: 1654.1189196 test: 1681.6885268 best: 1681.6885268 (165) total: 4.25s remaining: 871ms
166: learn: 1653.3245980 test: 1681.1089344 best: 1681.1089344 (166) total: 4.28s remaining: 845ms
167: learn: 1652.3586568 test: 1680.4465944 best: 1680.4465944 (167) total: 4.3s remaining: 819ms
168: learn: 1651.1962327 test: 1679.2729705 best: 1679.2729705 (168) total: 4.33s remaining: 794ms
169: learn: 1650.1175150 test: 1679.0240789 best: 1679.0240789 (169) total: 4.36s remaining: 769ms
170: learn: 1649.0035940 test: 1678.3905553 best: 1678.3905553 (170) total: 4.38s remaining: 743ms
171: learn: 1648.1080861 test: 1677.8371472 best: 1677.8371472 (171) total: 4.4s remaining: 717ms
172: learn: 1647.0280338 test: 1677.1642647 best: 1677.1642647 (172) total: 4.43s remaining: 691ms
173: learn: 1646.3613744 test: 1676.7921712 best: 1676.7921712 (173) total: 4.45s remaining: 666ms
174: learn: 1645.6699342 test: 1676.2086247 best: 1676.2086247 (174) total: 4.48s remaining: 640ms
175: learn: 1645.0713928 test: 1675.7803234 best: 1675.7803234 (175) total: 4.5s remaining: 614ms
176: learn: 1644.2588822 test: 1675.2115336 best: 1675.2115336 (176) total: 4.53s remaining: 589ms
177: learn: 1642.9677064 test: 1674.2856284 best: 1674.2856284 (177) total: 4.56s remaining: 563ms
178: learn: 1642.4790977 test: 1674.0593428 best: 1674.0593428 (178) total: 4.58s remaining: 537ms
179: learn: 1641.6346540 test: 1673.7240332 best: 1673.7240332 (179) total: 4.61s remaining: 512ms
180: learn: 1641.0782623 test: 1673.4311087 best: 1673.4311087 (180) total: 4.63s remaining: 486ms
181: learn: 1640.5215512 test: 1673.0194220 best: 1673.0194220 (181) total: 4.65s remaining: 460ms
182: learn: 1639.6367672 test: 1672.3381032 best: 1672.3381032 (182) total: 4.67s remaining: 434ms
183: learn: 1638.9940197 test: 1671.8037588 best: 1671.8037588 (183) total: 4.7s remaining: 408ms
184: learn: 1638.3461550 test: 1671.2986373 best: 1671.2986373 (184) total: 4.72s remaining: 383ms
185: learn: 1637.5213610 test: 1670.8971140 best: 1670.8971140 (185) total: 4.75s remaining: 357ms
186: learn: 1636.8180768 test: 1670.3943069 best: 1670.3943069 (186) total: 4.77s remaining: 332ms
187: learn: 1635.9369105 test: 1669.6546279 best: 1669.6546279 (187) total: 4.79s remaining: 306ms
188: learn: 1635.1874651 test: 1668.8430956 best: 1668.8430956 (188) total: 4.82s remaining: 281ms
189: learn: 1634.4522965 test: 1668.2211625 best: 1668.2211625 (189) total: 4.84s remaining: 255ms
190: learn: 1633.3902703 test: 1667.5931648 best: 1667.5931648 (190) total: 4.87s remaining: 230ms
191: learn: 1632.6404795 test: 1667.2104949 best: 1667.2104949 (191) total: 4.9s remaining: 204ms
192: learn: 1631.5601723 test: 1666.4060075 best: 1666.4060075 (192) total: 4.93s remaining: 179ms
193: learn: 1631.0550232 test: 1666.1298210 best: 1666.1298210 (193) total: 4.95s remaining: 153ms
194: learn: 1630.2834210 test: 1665.7432585 best: 1665.7432585 (194) total: 4.98s remaining: 128ms
195: learn: 1629.7371347 test: 1665.2981878 best: 1665.2981878 (195) total: 5.01s remaining: 102ms
196: learn: 1629.0007355 test: 1664.8610201 best: 1664.8610201 (196) total: 5.03s remaining: 76.7ms
197: learn: 1628.3247015 test: 1664.3843646 best: 1664.3843646 (197) total: 5.06s remaining: 51.1ms
198: learn: 1627.8032127 test: 1663.9369878 best: 1663.9369878 (198) total: 5.08s remaining: 25.5ms
199: learn: 1627.3527027 test: 1663.6848911 best: 1663.6848911 (199) total: 5.11s remaining: 0us

bestTest = 1663.684891

bestIteration = 199

95: loss: 1663.6848911 best: 1659.4456750 (89) total: 4m 36s remaining: 0us

Estimating final quality...

Estimating max. quality...

Training on fold [0/3]

0: learn: 6392.0635738 test: 6397.6976735 best: 6397.6976735 (0) total: 24.5ms remaining: 4.87s
1: learn: 5860.0307080 test: 5865.3582982 best: 5865.3582982 (1) total: 47.7ms remaining: 4.72s
2: learn: 5381.6870015 test: 5388.6106692 best: 5388.6106692 (2) total: 69.5ms remaining: 4.56s
3: learn: 4971.1127800 test: 4977.9589724 best: 4977.9589724 (3) total: 91.2ms remaining: 4.47s
4: learn: 4600.2392006 test: 4607.4766216 best: 4607.4766216 (4) total: 115ms remaining: 4.5s
5: learn: 4266.6365249 test: 4274.2043745 best: 4274.2043745 (5) total: 144ms remaining: 4.64s
6: learn: 3975.6532919 test: 3984.4090597 best: 3984.4090597 (6) total: 178ms remaining: 4.91s
7: learn: 3715.3771466 test: 3726.3502526 best: 3726.3502526 (7) total: 212ms remaining: 5.09s
8: learn: 3484.1977219 test: 3495.3190479 best: 3495.3190479 (8) total: 251ms remaining: 5.33s
9: learn: 3283.2156271 test: 3295.9384215 best: 3295.9384215 (9) total: 281ms remaining: 5.34s
10: learn: 3105.9817976 test: 3119.9490636 best: 3119.9490636 (10) total: 303ms remaining: 5.2s
11: learn: 2952.5092677 test: 2967.0535403 best: 2967.0535403 (11) total: 330ms remaining: 5.17s
12: learn: 2821.4432048 test: 2836.2727167 best: 2836.2727167 (12) total: 353ms remaining: 5.08s
13: learn: 2704.5234258 test: 2719.8875901 best: 2719.8875901 (13) total: 376ms remaining: 4.99s
14: learn: 2605.5854210 test: 2621.4526585 best: 2621.4526585 (14) total: 399ms remaining: 4.92s
15: learn: 2514.3058114 test: 2530.8045978 best: 2530.8045978 (15) total: 421ms remaining: 4.85s
16: learn: 2436.9262714 test: 2453.5454872 best: 2453.5454872 (16) total: 443ms remaining: 4.77s
17: learn: 2372.6482649 test: 2389.1096819 best: 2389.1096819 (17) total: 467ms remaining: 4.72s
18: learn: 2315.2838024 test: 2332.2679758 best: 2332.2679758 (18) total: 488ms remaining: 4.65s
19: learn: 2256.1279026 test: 2273.4750378 best: 2273.4750378 (19) total: 515ms remaining: 4.64s
20: learn: 2211.6395952 test: 2229.6187936 best: 2229.6187936 (20) total: 536ms remaining: 4.57s
21: learn: 2168.4649733 test: 2186.6648102 best: 2186.6648102 (21) total: 558ms remaining: 4.51s
22: learn: 2134.5064807 test: 2152.8790545 best: 2152.8790545 (22) total: 579ms remaining: 4.45s
23: learn: 2099.6429331 test: 2118.5874380 best: 2118.5874380 (23) total: 601ms remaining: 4.41s
24: learn: 2074.0730905 test: 2093.6695801 best: 2093.6695801 (24) total: 631ms remaining: 4.42s
25: learn: 2047.7859483 test: 2067.0463813 best: 2067.0463813 (25) total: 660ms remaining: 4.42s
26: learn: 2026.3154640 test: 2045.6489213 best: 2045.6489213 (26) total: 690ms remaining: 4.42s
27: learn: 2006.4347164 test: 2026.4623927 best: 2026.4623927 (27) total: 723ms remaining: 4.44s
28: learn: 1990.0453921 test: 2010.4790202 best: 2010.4790202 (28) total: 753ms remaining: 4.44s
29: learn: 1975.4289576 test: 1996.1129345 best: 1996.1129345 (29) total: 783ms remaining: 4.44s
30: learn: 1962.3047102 test: 1983.2392094 best: 1983.2392094 (30) total: 811ms remaining: 4.42s
31: learn: 1949.4766017 test: 1971.3805866 best: 1971.3805866 (31) total: 839ms remaining: 4.4s
32: learn: 1939.3863197 test: 1961.0644675 best: 1961.0644675 (32) total: 866ms remaining: 4.38s
33: learn: 1926.4060908 test: 1948.3148306 best: 1948.3148306 (33) total: 887ms remaining: 4.33s
34: learn: 1917.0049875 test: 1939.1238477 best: 1939.1238477 (34) total: 913ms remaining: 4.3s
35: learn: 1908.7973865 test: 1931.2648148 best: 1931.2648148 (35) total: 932ms remaining: 4.25s
36: learn: 1899.3361077 test: 1922.0504417 best: 1922.0504417 (36) total: 954ms remaining: 4.2s
37: learn: 1891.8841473 test: 1915.4222634 best: 1915.4222634 (37) total: 973ms remaining: 4.15s
38: learn: 1884.2265516 test: 1908.0723066 best: 1908.0723066 (38) total: 995ms remaining: 4.11s
39: learn: 1876.9165366 test: 1901.4622365 best: 1901.4622365 (39) total: 1.02s remaining: 4.07s

40: learn: 1871.2094012 test: 1896.2276037 best: 1896.2276037 (40) total: 1.04s remaining: 4.03s
41: learn: 1865.7920826 test: 1891.0721919 best: 1891.0721919 (41) total: 1.06s remaining: 3.99s
42: learn: 1860.0404045 test: 1886.0663421 best: 1886.0663421 (42) total: 1.08s remaining: 3.95s
43: learn: 1855.3406394 test: 1881.9634387 best: 1881.9634387 (43) total: 1.1s remaining: 3.91s
44: learn: 1849.9095368 test: 1876.9661597 best: 1876.9661597 (44) total: 1.12s remaining: 3.87s
45: learn: 1845.0371072 test: 1872.1362785 best: 1872.1362785 (45) total: 1.15s remaining: 3.83s
46: learn: 1840.7776544 test: 1868.2338568 best: 1868.2338568 (46) total: 1.17s remaining: 3.79s
47: learn: 1836.8329708 test: 1864.4981834 best: 1864.4981834 (47) total: 1.19s remaining: 3.76s
48: learn: 1832.7709707 test: 1860.9522569 best: 1860.9522569 (48) total: 1.21s remaining: 3.73s
49: learn: 1827.6580904 test: 1856.5198289 best: 1856.5198289 (49) total: 1.23s remaining: 3.69s
50: learn: 1822.3482192 test: 1852.0299852 best: 1852.0299852 (50) total: 1.25s remaining: 3.65s
51: learn: 1818.8260809 test: 1848.6987864 best: 1848.6987864 (51) total: 1.27s remaining: 3.62s
52: learn: 1815.8221598 test: 1846.0388889 best: 1846.0388889 (52) total: 1.29s remaining: 3.58s
53: learn: 1812.1312016 test: 1842.7279947 best: 1842.7279947 (53) total: 1.31s remaining: 3.55s
54: learn: 1808.3934062 test: 1838.9991430 best: 1838.9991430 (54) total: 1.33s remaining: 3.52s
55: learn: 1804.2616794 test: 1834.8313137 best: 1834.8313137 (55) total: 1.35s remaining: 3.48s
56: learn: 1801.3309142 test: 1832.2419725 best: 1832.2419725 (56) total: 1.37s remaining: 3.45s
57: learn: 1798.7105781 test: 1829.6708817 best: 1829.6708817 (57) total: 1.4s remaining: 3.42s
58: learn: 1796.7232089 test: 1827.7562494 best: 1827.7562494 (58) total: 1.42s remaining: 3.39s
59: learn: 1793.9734946 test: 1825.3088421 best: 1825.3088421 (59) total: 1.44s remaining: 3.36s
60: learn: 1792.2523813 test: 1823.7028991 best: 1823.7028991 (60) total: 1.46s remaining: 3.33s
61: learn: 1787.4448440 test: 1819.3925643 best: 1819.3925643 (61) total: 1.48s remaining: 3.3s
62: learn: 1784.2271386 test: 1815.9341294 best: 1815.9341294 (62) total: 1.5s remaining: 3.27s
63: learn: 1781.2716082 test: 1813.3560001 best: 1813.3560001 (63) total: 1.52s remaining: 3.24s
64: learn: 1778.2799764 test: 1811.0638495 best: 1811.0638495 (64) total: 1.55s remaining: 3.21s
65: learn: 1775.7611227 test: 1808.8493397 best: 1808.8493397 (65) total: 1.57s remaining: 3.18s
66: learn: 1772.6401455 test: 1805.9460322 best: 1805.9460322 (66) total: 1.59s remaining: 3.15s
67: learn: 1770.7543157 test: 1804.3052834 best: 1804.3052834 (67) total: 1.61s remaining: 3.13s
68: learn: 1768.1635674 test: 1801.6944578 best: 1801.6944578 (68) total: 1.63s remaining: 3.1s
69: learn: 1765.8499809 test: 1799.6424613 best: 1799.6424613 (69) total: 1.65s remaining: 3.07s
70: learn: 1763.0490326 test: 1796.7019783 best: 1796.7019783 (70) total: 1.68s remaining: 3.04s
71: learn: 1761.0174045 test: 1794.8497816 best: 1794.8497816 (71) total: 1.7s remaining: 3.02s
72: learn: 1759.4278885 test: 1793.4465337 best: 1793.4465337 (72) total: 1.72s remaining: 3s
73: learn: 1755.8492176 test: 1790.3172272 best: 1790.3172272 (73) total: 1.75s remaining: 2.97s
74: learn: 1753.7928702 test: 1788.6296814 best: 1788.6296814 (74) total: 1.77s remaining: 2.95s
75: learn: 1752.1895318 test: 1787.2287077 best: 1787.2287077 (75) total: 1.79s remaining: 2.93s
76: learn: 1750.8244196 test: 1785.8903214 best: 1785.8903214 (76) total: 1.82s remaining: 2.92s
77: learn: 1749.0338172 test: 1784.3407103 best: 1784.3407103 (77) total: 1.85s remaining: 2.89s
78: learn: 1746.7851735 test: 1782.1787934 best: 1782.1787934 (78) total: 1.87s remaining: 2.87s
79: learn: 1744.0549922 test: 1779.2885803 best: 1779.2885803 (79) total: 1.89s remaining: 2.84s
80: learn: 1741.8383144 test: 1777.3587383 best: 1777.3587383 (80) total: 1.92s remaining: 2.81s

81: learn: 1740.3037731 test: 1775.9321863 best: 1775.9321863 (81) total: 1.94s remaining: 2.79s
82: learn: 1738.9721598 test: 1774.6816705 best: 1774.6816705 (82) total: 1.96s remaining: 2.76s
83: learn: 1736.7667114 test: 1772.4829959 best: 1772.4829959 (83) total: 1.98s remaining: 2.73s
84: learn: 1735.5444091 test: 1771.3234195 best: 1771.3234195 (84) total: 2s remaining: 2.71s
85: learn: 1733.8183138 test: 1769.8305926 best: 1769.8305926 (85) total: 2.02s remaining: 2.68s
86: learn: 1731.8675461 test: 1768.4060446 best: 1768.4060446 (86) total: 2.04s remaining: 2.66s
87: learn: 1730.5573243 test: 1767.4212463 best: 1767.4212463 (87) total: 2.07s remaining: 2.63s
88: learn: 1728.0343528 test: 1765.4357921 best: 1765.4357921 (88) total: 2.09s remaining: 2.61s
89: learn: 1726.7126933 test: 1764.3033424 best: 1764.3033424 (89) total: 2.11s remaining: 2.58s
90: learn: 1725.0777345 test: 1763.0584841 best: 1763.0584841 (90) total: 2.13s remaining: 2.55s
91: learn: 1723.8333398 test: 1762.3923786 best: 1762.3923786 (91) total: 2.15s remaining: 2.53s
92: learn: 1722.0869348 test: 1761.0251576 best: 1761.0251576 (92) total: 2.17s remaining: 2.5s
93: learn: 1721.0426234 test: 1760.0971253 best: 1760.0971253 (93) total: 2.19s remaining: 2.48s
94: learn: 1718.8235496 test: 1758.2893057 best: 1758.2893057 (94) total: 2.22s remaining: 2.45s
95: learn: 1717.3287286 test: 1756.9671271 best: 1756.9671271 (95) total: 2.24s remaining: 2.43s
96: learn: 1715.8329521 test: 1755.2175136 best: 1755.2175136 (96) total: 2.26s remaining: 2.4s
97: learn: 1714.5277105 test: 1754.0460069 best: 1754.0460069 (97) total: 2.28s remaining: 2.38s
98: learn: 1713.4383337 test: 1753.1421474 best: 1753.1421474 (98) total: 2.3s remaining: 2.35s
99: learn: 1711.5402701 test: 1751.3571301 best: 1751.3571301 (99) total: 2.33s remaining: 2.33s
100: learn: 1708.4386079 test: 1748.9178607 best: 1748.9178607 (100) total: 2.35s remaining: 2.3s
101: learn: 1707.5826434 test: 1747.9273947 best: 1747.9273947 (101) total: 2.37s remaining: 2.27s
102: learn: 1705.9199389 test: 1746.5066975 best: 1746.5066975 (102) total: 2.39s remaining: 2.25s
103: learn: 1704.8720596 test: 1745.5638221 best: 1745.5638221 (103) total: 2.42s remaining: 2.23s
104: learn: 1703.4754540 test: 1744.2128062 best: 1744.2128062 (104) total: 2.44s remaining: 2.21s
105: learn: 1702.3004672 test: 1743.1851457 best: 1743.1851457 (105) total: 2.46s remaining: 2.18s
106: learn: 1701.0165054 test: 1742.5163693 best: 1742.5163693 (106) total: 2.48s remaining: 2.15s
107: learn: 1699.7418367 test: 1741.4260077 best: 1741.4260077 (107) total: 2.5s remaining: 2.13s
108: learn: 1697.1079241 test: 1738.9664321 best: 1738.9664321 (108) total: 2.52s remaining: 2.1s
109: learn: 1696.1270710 test: 1738.2581268 best: 1738.2581268 (109) total: 2.54s remaining: 2.08s
110: learn: 1694.6619506 test: 1737.6830137 best: 1737.6830137 (110) total: 2.56s remaining: 2.05s
111: learn: 1692.6093959 test: 1736.0731124 best: 1736.0731124 (111) total: 2.58s remaining: 2.03s
112: learn: 1690.3498954 test: 1734.2860710 best: 1734.2860710 (112) total: 2.6s remaining: 2s
113: learn: 1688.9801653 test: 1733.1366550 best: 1733.1366550 (113) total: 2.63s remaining: 1.98s
114: learn: 1686.9764620 test: 1731.6878447 best: 1731.6878447 (114) total: 2.65s remaining: 1.96s
115: learn: 1685.7742639 test: 1730.7562500 best: 1730.7562500 (115) total: 2.67s remaining: 1.93s
116: learn: 1684.7261351 test: 1729.8841901 best: 1729.8841901 (116) total: 2.69s remaining: 1.91s
117: learn: 1683.4165763 test: 1728.8630931 best: 1728.8630931 (117) total: 2.71s remaining: 1.89s
118: learn: 1682.0901477 test: 1727.8822088 best: 1727.8822088 (118) total: 2.74s remaining: 1.86s
119: learn: 1680.8540871 test: 1727.0119843 best: 1727.0119843 (119) total: 2.76s remaining: 1.84s
120: learn: 1679.6946958 test: 1725.8604684 best: 1725.8604684 (120) total: 2.78s remaining: 1.82s
121: learn: 1678.9870362 test: 1725.1060228 best: 1725.1060228 (121) total: 2.81s remaining: 1.79s
122: learn: 1677.8775922 test: 1724.1724882 best: 1724.1724882 (122) total: 2.83s remaining: 1.77s

122: learn: 1677.8775229 test: 1724.1704698 best: 1724.1704698 (122) total: 2.83s remaining: 1.77s
123: learn: 1677.1243018 test: 1723.6548438 best: 1723.6548438 (123) total: 2.85s remaining: 1.75s
124: learn: 1675.8904631 test: 1722.6857871 best: 1722.6857871 (124) total: 2.87s remaining: 1.72s
125: learn: 1674.7510641 test: 1721.7866812 best: 1721.7866812 (125) total: 2.91s remaining: 1.71s
126: learn: 1673.8471689 test: 1721.0701576 best: 1721.0701576 (126) total: 2.93s remaining: 1.68s
127: learn: 1672.1037507 test: 1719.3255613 best: 1719.3255613 (127) total: 2.95s remaining: 1.66s
128: learn: 1670.7345553 test: 1718.6971966 best: 1718.6971966 (128) total: 2.97s remaining: 1.63s
129: learn: 1669.3575322 test: 1717.5932377 best: 1717.5932377 (129) total: 2.99s remaining: 1.61s
130: learn: 1667.7981873 test: 1716.5749546 best: 1716.5749546 (130) total: 3.01s remaining: 1.59s
131: learn: 1666.8220978 test: 1715.8165205 best: 1715.8165205 (131) total: 3.03s remaining: 1.56s
132: learn: 1665.3475358 test: 1714.5139859 best: 1714.5139859 (132) total: 3.05s remaining: 1.54s
133: learn: 1664.1905956 test: 1713.6935244 best: 1713.6935244 (133) total: 3.07s remaining: 1.51s
134: learn: 1663.0441676 test: 1712.6001848 best: 1712.6001848 (134) total: 3.09s remaining: 1.49s
135: learn: 1661.9224540 test: 1711.6879869 best: 1711.6879869 (135) total: 3.11s remaining: 1.47s
136: learn: 1660.9315962 test: 1710.6780975 best: 1710.6780975 (136) total: 3.13s remaining: 1.44s
137: learn: 1660.0504192 test: 1709.9822516 best: 1709.9822516 (137) total: 3.15s remaining: 1.42s
138: learn: 1659.1171607 test: 1709.1323258 best: 1709.1323258 (138) total: 3.17s remaining: 1.39s
139: learn: 1658.5145157 test: 1708.4568054 best: 1708.4568054 (139) total: 3.19s remaining: 1.37s
140: learn: 1657.4924453 test: 1708.0247877 best: 1708.0247877 (140) total: 3.21s remaining: 1.34s
141: learn: 1656.7626162 test: 1707.6203305 best: 1707.6203305 (141) total: 3.23s remaining: 1.32s
142: learn: 1655.8637998 test: 1707.1451391 best: 1707.1451391 (142) total: 3.25s remaining: 1.3s
143: learn: 1654.6022453 test: 1706.0478572 best: 1706.0478572 (143) total: 3.27s remaining: 1.27s
144: learn: 1653.4468618 test: 1705.3325440 best: 1705.3325440 (144) total: 3.3s remaining: 1.25s
145: learn: 1651.6191621 test: 1703.9246367 best: 1703.9246367 (145) total: 3.32s remaining: 1.23s
146: learn: 1651.0918320 test: 1703.4287406 best: 1703.4287406 (146) total: 3.34s remaining: 1.2s
147: learn: 1650.0873278 test: 1702.3141279 best: 1702.3141279 (147) total: 3.36s remaining: 1.18s
148: learn: 1649.1346358 test: 1701.8643388 best: 1701.8643388 (148) total: 3.38s remaining: 1.16s
149: learn: 1647.7842732 test: 1700.6403951 best: 1700.6403951 (149) total: 3.4s remaining: 1.13s
150: learn: 1646.9727603 test: 1699.8217511 best: 1699.8217511 (150) total: 3.42s remaining: 1.11s
151: learn: 1645.9050663 test: 1698.9235804 best: 1698.9235804 (151) total: 3.44s remaining: 1.09s
152: learn: 1644.9617221 test: 1698.0448065 best: 1698.0448065 (152) total: 3.46s remaining: 1.06s
153: learn: 1643.9369576 test: 1697.4012875 best: 1697.4012875 (153) total: 3.49s remaining: 1.04s
154: learn: 1642.8673172 test: 1696.7164376 best: 1696.7164376 (154) total: 3.51s remaining: 1.02s
155: learn: 1641.9704397 test: 1695.9867483 best: 1695.9867483 (155) total: 3.53s remaining: 996ms
156: learn: 1640.2382759 test: 1694.8509952 best: 1694.8509952 (156) total: 3.55s remaining: 974ms
157: learn: 1639.3638047 test: 1694.3729874 best: 1694.3729874 (157) total: 3.57s remaining: 950ms
158: learn: 1638.1930471 test: 1693.5527253 best: 1693.5527253 (158) total: 3.6s remaining: 928ms
159: learn: 1637.2370091 test: 1693.0833889 best: 1693.0833889 (159) total: 3.62s remaining: 904ms
160: learn: 1636.5722327 test: 1692.4288802 best: 1692.4288802 (160) total: 3.64s remaining: 882ms
161: learn: 1635.0780405 test: 1691.5794150 best: 1691.5794150 (161) total: 3.67s remaining: 860ms
162: learn: 1634.2500390 test: 1691.1998393 best: 1691.1998393 (162) total: 3.69s remaining: 837ms
163: learn: 1633.2044559 test: 1690.7499520 best: 1690.7499520 (163) total: 3.71s remaining: 814ms

164: learn: 1632.3046725 test: 1690.3718460 best: 1690.3718460 (164) total: 3.73s remaining: 791ms
165: learn: 1631.3680133 test: 1689.8091099 best: 1689.8091099 (165) total: 3.75s remaining: 768ms
166: learn: 1630.3050014 test: 1689.1450559 best: 1689.1450559 (166) total: 3.77s remaining: 745ms
167: learn: 1629.4388654 test: 1688.7556708 best: 1688.7556708 (167) total: 3.8s remaining: 723ms
168: learn: 1628.4305736 test: 1687.9032450 best: 1687.9032450 (168) total: 3.82s remaining: 701ms
169: learn: 1627.4088545 test: 1687.4271329 best: 1687.4271329 (169) total: 3.84s remaining: 678ms
170: learn: 1626.2521408 test: 1686.5373738 best: 1686.5373738 (170) total: 3.86s remaining: 655ms
171: learn: 1625.2362607 test: 1685.6821376 best: 1685.6821376 (171) total: 3.88s remaining: 633ms
172: learn: 1624.3279171 test: 1685.0279771 best: 1685.0279771 (172) total: 3.9s remaining: 610ms
173: learn: 1623.2258952 test: 1684.2850162 best: 1684.2850162 (173) total: 3.93s remaining: 587ms
174: learn: 1622.2875124 test: 1683.8626272 best: 1683.8626272 (174) total: 3.95s remaining: 564ms
175: learn: 1621.5009000 test: 1683.5549060 best: 1683.5549060 (175) total: 3.97s remaining: 541ms
176: learn: 1620.5521437 test: 1682.9392841 best: 1682.9392841 (176) total: 3.99s remaining: 519ms
177: learn: 1620.0355844 test: 1682.6588467 best: 1682.6588467 (177) total: 4.01s remaining: 495ms
178: learn: 1619.2056358 test: 1682.3114462 best: 1682.3114462 (178) total: 4.03s remaining: 473ms
179: learn: 1618.7106388 test: 1682.0631507 best: 1682.0631507 (179) total: 4.05s remaining: 450ms
180: learn: 1617.4898035 test: 1681.3263792 best: 1681.3263792 (180) total: 4.07s remaining: 427ms
181: learn: 1616.3386071 test: 1680.4370609 best: 1680.4370609 (181) total: 4.1s remaining: 405ms
182: learn: 1615.4969604 test: 1679.9451419 best: 1679.9451419 (182) total: 4.12s remaining: 383ms
183: learn: 1614.5166494 test: 1679.3188963 best: 1679.3188963 (183) total: 4.14s remaining: 360ms
184: learn: 1613.3074654 test: 1678.7060483 best: 1678.7060483 (184) total: 4.16s remaining: 337ms
185: learn: 1612.8397446 test: 1678.3216792 best: 1678.3216792 (185) total: 4.18s remaining: 315ms
186: learn: 1612.2564388 test: 1678.1822064 best: 1678.1822064 (186) total: 4.2s remaining: 292ms
187: learn: 1611.1633374 test: 1677.6673078 best: 1677.6673078 (187) total: 4.22s remaining: 269ms
188: learn: 1609.7835740 test: 1676.9220127 best: 1676.9220127 (188) total: 4.24s remaining: 247ms
189: learn: 1609.0024454 test: 1676.2472352 best: 1676.2472352 (189) total: 4.26s remaining: 224ms
190: learn: 1608.3775983 test: 1675.6311404 best: 1675.6311404 (190) total: 4.29s remaining: 202ms
191: learn: 1607.3404687 test: 1675.0084438 best: 1675.0084438 (191) total: 4.31s remaining: 180ms
192: learn: 1606.1057325 test: 1674.1253979 best: 1674.1253979 (192) total: 4.33s remaining: 157ms
193: learn: 1605.2264208 test: 1673.7747302 best: 1673.7747302 (193) total: 4.35s remaining: 135ms
194: learn: 1604.5514539 test: 1673.4090534 best: 1673.4090534 (194) total: 4.37s remaining: 112ms
195: learn: 1603.9692795 test: 1672.9722341 best: 1672.9722341 (195) total: 4.39s remaining: 89.6ms
196: learn: 1603.1989587 test: 1672.7454641 best: 1672.7454641 (196) total: 4.41s remaining: 67.2ms
197: learn: 1602.4396738 test: 1672.1225224 best: 1672.1225224 (197) total: 4.43s remaining: 44.7ms
198: learn: 1601.7556242 test: 1671.6019641 best: 1671.6019641 (198) total: 4.45s remaining: 22.4ms
199: learn: 1601.0885405 test: 1671.0682562 best: 1671.0682562 (199) total: 4.47s remaining: 0us

bestTest = 1671.068256

bestIteration = 199

0: learn: 6408.9714656 test: 6362.9649683 best: 6362.9649683 (0) total: 21.7ms remaining: 4.32s
1: learn: 5879.5364365 test: 5835.9319132 best: 5835.9319132 (1) total: 45.5ms remaining: 4.5s
2: learn: 5409.1431549 test: 5368.0738639 best: 5368.0738639 (2) total: 68.1ms remaining: 4.47s
3: learn: 4987.1522903 test: 4948.3650314 best: 4948.3650314 (3) total: 91.1ms remaining: 4.46s
4: learn: 4618.0928563 test: 4581.0066938 best: 4581.0066938 (4) total: 113ms remaining: 4.42s
5: learn: 4286.4511190 test: 4250.9352005 best: 4250.9352005 (5) total: 136ms remaining: 4.39s
6: learn: 3994.6538927 test: 3962.0832916 best: 3962.0832916 (6) total: 159ms remaining: 4.38s
7: learn: 3734.8459262 test: 3703.6756771 best: 3703.6756771 (7) total: 181ms remaining: 4.35s
8: learn: 3504.9527189 test: 3476.4335771 best: 3476.4335771 (8) total: 203ms remaining: 4.31s
9: learn: 3300.8498544 test: 3274.7830948 best: 3274.7830948 (9) total: 225ms remaining: 4.28s
10: learn: 3124.5654519 test: 3099.5977636 best: 3099.5977636 (10) total: 256ms remaining: 4.4s
11: learn: 2969.3472975 test: 2947.0172697 best: 2947.0172697 (11) total: 279ms remaining: 4.37s
12: learn: 2837.9035509 test: 2817.1324385 best: 2817.1324385 (12) total: 301ms remaining: 4.33s
13: learn: 2719.8335902 test: 2701.0688625 best: 2701.0688625 (13) total: 328ms remaining: 4.36s
14: learn: 2619.3217152 test: 2602.0663600 best: 2602.0663600 (14) total: 353ms remaining: 4.35s
15: learn: 2533.4733731 test: 2517.3647433 best: 2517.3647433 (15) total: 382ms remaining: 4.39s
16: learn: 2452.2455857 test: 2438.1333281 best: 2438.1333281 (16) total: 404ms remaining: 4.35s
17: learn: 2383.3753788 test: 2370.9832060 best: 2370.9832060 (17) total: 426ms remaining: 4.31s
18: learn: 2326.8296205 test: 2315.4233574 best: 2315.4233574 (18) total: 451ms remaining: 4.29s
19: learn: 2273.9883714 test: 2264.6974780 best: 2264.6974780 (19) total: 471ms remaining: 4.24s
20: learn: 2229.5678926 test: 2221.6568303 best: 2221.6568303 (20) total: 494ms remaining: 4.21s
21: learn: 2188.6222353 test: 2181.9575677 best: 2181.9575677 (21) total: 518ms remaining: 4.19s
22: learn: 2147.9491962 test: 2142.0514412 best: 2142.0514412 (22) total: 541ms remaining: 4.16s
23: learn: 2112.9282026 test: 2108.6143190 best: 2108.6143190 (23) total: 561ms remaining: 4.12s
24: learn: 2086.4855127 test: 2083.0702708 best: 2083.0702708 (24) total: 581ms remaining: 4.07s
25: learn: 2061.6508253 test: 2059.0497938 best: 2059.0497938 (25) total: 601ms remaining: 4.02s
26: learn: 2040.6410603 test: 2039.6350729 best: 2039.6350729 (26) total: 620ms remaining: 3.97s
27: learn: 2022.7582877 test: 2023.3872367 best: 2023.3872367 (27) total: 646ms remaining: 3.97s
28: learn: 2004.0767132 test: 2005.7872384 best: 2005.7872384 (28) total: 666ms remaining: 3.92s
29: learn: 1988.4169102 test: 1990.3822268 best: 1990.3822268 (29) total: 685ms remaining: 3.88s
30: learn: 1971.9926651 test: 1975.1225856 best: 1975.1225856 (30) total: 705ms remaining: 3.84s
31: learn: 1956.2477306 test: 1960.1793916 best: 1960.1793916 (31) total: 725ms remaining: 3.81s
32: learn: 1945.0251990 test: 1950.3849560 best: 1950.3849560 (32) total: 745ms remaining: 3.77s
33: learn: 1934.0991627 test: 1939.9459138 best: 1939.9459138 (33) total: 765ms remaining: 3.74s
34: learn: 1925.2562463 test: 1931.5831783 best: 1931.5831783 (34) total: 784ms remaining: 3.7s
35: learn: 1916.9713760 test: 1924.0037886 best: 1924.0037886 (35) total: 803ms remaining: 3.66s
36: learn: 1909.3192585 test: 1917.1526064 best: 1917.1526064 (36) total: 822ms remaining: 3.62s
37: learn: 1901.2440368 test: 1909.8351552 best: 1909.8351552 (37) total: 844ms remaining: 3.6s
38: learn: 1891.6088521 test: 1901.0472320 best: 1901.0472320 (38) total: 864ms remaining: 3.57s
39: learn: 1885.3872955 test: 1895.2960206 best: 1895.2960206 (39) total: 884ms remaining: 3.54s
40: learn: 1879.7448244 test: 1890.5242044 best: 1890.5242044 (40) total: 904ms remaining: 3.5s

41: learn: 1872.5424069 test: 1883.7488103 best: 1883.7488103 (41) total: 925ms remaining: 3.48s
42: learn: 1868.7645841 test: 1880.1789043 best: 1880.1789043 (42) total: 948ms remaining: 3.46s
43: learn: 1864.0317362 test: 1875.8783661 best: 1875.8783661 (43) total: 967ms remaining: 3.43s
44: learn: 1858.1441814 test: 1870.4250842 best: 1870.4250842 (44) total: 986ms remaining: 3.4s
45: learn: 1854.0079695 test: 1866.7825444 best: 1866.7825444 (45) total: 1s remaining: 3.37s
46: learn: 1848.1291457 test: 1861.4993267 best: 1861.4993267 (46) total: 1.02s remaining: 3.34s
47: learn: 1842.2069561 test: 1856.3021346 best: 1856.3021346 (47) total: 1.05s remaining: 3.32s
48: learn: 1837.9140860 test: 1852.5218843 best: 1852.5218843 (48) total: 1.07s remaining: 3.29s
49: learn: 1834.1106157 test: 1849.0403418 best: 1849.0403418 (49) total: 1.09s remaining: 3.26s
50: learn: 1830.5642276 test: 1845.9988610 best: 1845.9988610 (50) total: 1.11s remaining: 3.23s
51: learn: 1826.5999742 test: 1842.1048060 best: 1842.1048060 (51) total: 1.13s remaining: 3.22s
52: learn: 1822.6152454 test: 1838.2667820 best: 1838.2667820 (52) total: 1.15s remaining: 3.19s
53: learn: 1818.6348960 test: 1834.5017270 best: 1834.5017270 (53) total: 1.17s remaining: 3.17s
54: learn: 1815.3115834 test: 1831.8315746 best: 1831.8315746 (54) total: 1.19s remaining: 3.14s
55: learn: 1812.3363121 test: 1829.1338750 best: 1829.1338750 (55) total: 1.21s remaining: 3.11s
56: learn: 1807.2317736 test: 1824.4488006 best: 1824.4488006 (56) total: 1.23s remaining: 3.09s
57: learn: 1804.2014133 test: 1821.6858146 best: 1821.6858146 (57) total: 1.25s remaining: 3.06s
58: learn: 1800.6034366 test: 1818.4379424 best: 1818.4379424 (58) total: 1.27s remaining: 3.04s
59: learn: 1798.3617212 test: 1816.5116055 best: 1816.5116055 (59) total: 1.29s remaining: 3.01s
60: learn: 1795.1591387 test: 1813.7665554 best: 1813.7665554 (60) total: 1.31s remaining: 2.98s
61: learn: 1792.4963423 test: 1811.2541222 best: 1811.2541222 (61) total: 1.34s remaining: 2.98s
62: learn: 1789.7582068 test: 1809.1505568 best: 1809.1505568 (62) total: 1.36s remaining: 2.95s
63: learn: 1786.2620946 test: 1805.8960949 best: 1805.8960949 (63) total: 1.38s remaining: 2.92s
64: learn: 1782.5218259 test: 1802.7904052 best: 1802.7904052 (64) total: 1.4s remaining: 2.9s
65: learn: 1780.5579199 test: 1801.1899760 best: 1801.1899760 (65) total: 1.42s remaining: 2.88s
66: learn: 1778.4442725 test: 1799.4821439 best: 1799.4821439 (66) total: 1.44s remaining: 2.86s
67: learn: 1776.1934625 test: 1797.5490807 best: 1797.5490807 (67) total: 1.47s remaining: 2.85s
68: learn: 1774.4085010 test: 1796.2276603 best: 1796.2276603 (68) total: 1.49s remaining: 2.83s
69: learn: 1770.9650743 test: 1793.3269002 best: 1793.3269002 (69) total: 1.51s remaining: 2.81s
70: learn: 1768.9715711 test: 1791.5483634 best: 1791.5483634 (70) total: 1.54s remaining: 2.8s
71: learn: 1767.1581036 test: 1790.7644696 best: 1790.7644696 (71) total: 1.56s remaining: 2.78s
72: learn: 1765.4646753 test: 1789.9654616 best: 1789.9654616 (72) total: 1.58s remaining: 2.76s
73: learn: 1763.0986938 test: 1787.9439079 best: 1787.9439079 (73) total: 1.6s remaining: 2.73s
74: learn: 1760.6668739 test: 1785.7371138 best: 1785.7371138 (74) total: 1.63s remaining: 2.71s
75: learn: 1757.5836658 test: 1783.2341381 best: 1783.2341381 (75) total: 1.65s remaining: 2.69s
76: learn: 1755.9390697 test: 1781.5219212 best: 1781.5219212 (76) total: 1.67s remaining: 2.67s
77: learn: 1754.2147969 test: 1780.2005733 best: 1780.2005733 (77) total: 1.69s remaining: 2.64s
78: learn: 1752.3456553 test: 1778.8761964 best: 1778.8761964 (78) total: 1.71s remaining: 2.62s
79: learn: 1751.1361944 test: 1777.8041973 best: 1777.8041973 (79) total: 1.73s remaining: 2.6s
80: learn: 1749.7344941 test: 1776.7898311 best: 1776.7898311 (80) total: 1.75s remaining: 2.57s
81: learn: 1747.1520786 test: 1774.5306421 best: 1774.5306421 (81) total: 1.77s remaining: 2.55s
82: learn: 1745.2077575 test: 1772.8601119 best: 1772.8601119 (82) total: 1.79s remaining: 2.52s

82: learn: 1745.3077575 test: 1772.8601119 best: 1772.8601119 (82) total: 1.79s remaining: 2.5s
83: learn: 1742.9657356 test: 1770.8660808 best: 1770.8660808 (83) total: 1.81s remaining: 2.5s
84: learn: 1741.7355156 test: 1769.7237674 best: 1769.7237674 (84) total: 1.83s remaining: 2.48s
85: learn: 1739.3750207 test: 1767.4731935 best: 1767.4731935 (85) total: 1.85s remaining: 2.46s
86: learn: 1738.3771163 test: 1766.7209518 best: 1766.7209518 (86) total: 1.87s remaining: 2.43s
87: learn: 1737.1728747 test: 1765.7282762 best: 1765.7282762 (87) total: 1.89s remaining: 2.41s
88: learn: 1735.8485077 test: 1764.4825220 best: 1764.4825220 (88) total: 1.91s remaining: 2.38s
89: learn: 1733.6291984 test: 1762.3875292 best: 1762.3875292 (89) total: 1.93s remaining: 2.36s
90: learn: 1732.0948896 test: 1761.2639960 best: 1761.2639960 (90) total: 1.95s remaining: 2.34s
91: learn: 1730.3641113 test: 1760.0336035 best: 1760.0336035 (91) total: 1.97s remaining: 2.31s
92: learn: 1728.2609056 test: 1758.3623292 best: 1758.3623292 (92) total: 1.99s remaining: 2.29s
93: learn: 1726.7087589 test: 1757.4025620 best: 1757.4025620 (93) total: 2.01s remaining: 2.27s
94: learn: 1724.9906996 test: 1755.9701514 best: 1755.9701514 (94) total: 2.03s remaining: 2.25s
95: learn: 1723.7478894 test: 1754.9641409 best: 1754.9641409 (95) total: 2.05s remaining: 2.22s
96: learn: 1721.4084384 test: 1752.9347196 best: 1752.9347196 (96) total: 2.07s remaining: 2.2s
97: learn: 1719.5718518 test: 1751.1929804 best: 1751.1929804 (97) total: 2.09s remaining: 2.18s
98: learn: 1718.7606166 test: 1750.7981660 best: 1750.7981660 (98) total: 2.11s remaining: 2.15s
99: learn: 1717.3352122 test: 1749.6830083 best: 1749.6830083 (99) total: 2.13s remaining: 2.13s
100: learn: 1716.0661269 test: 1748.4912528 best: 1748.4912528 (100) total: 2.15s remaining: 2.11s
101: learn: 1715.1870317 test: 1747.7786231 best: 1747.7786231 (101) total: 2.17s remaining: 2.09s
102: learn: 1713.7305715 test: 1746.7278836 best: 1746.7278836 (102) total: 2.19s remaining: 2.06s
103: learn: 1712.7781151 test: 1746.1912293 best: 1746.1912293 (103) total: 2.21s remaining: 2.04s
104: learn: 1710.5983466 test: 1744.3527089 best: 1744.3527089 (104) total: 2.23s remaining: 2.02s
105: learn: 1709.4691126 test: 1743.2810515 best: 1743.2810515 (105) total: 2.25s remaining: 2s
106: learn: 1708.7132689 test: 1742.6615931 best: 1742.6615931 (106) total: 2.27s remaining: 1.97s
107: learn: 1706.9907116 test: 1741.1878317 best: 1741.1878317 (107) total: 2.29s remaining: 1.95s
108: learn: 1705.0902184 test: 1740.0073527 best: 1740.0073527 (108) total: 2.31s remaining: 1.93s
109: learn: 1703.9981739 test: 1739.1753048 best: 1739.1753048 (109) total: 2.34s remaining: 1.91s
110: learn: 1702.5722324 test: 1737.5704033 best: 1737.5704033 (110) total: 2.36s remaining: 1.89s
111: learn: 1701.0625849 test: 1736.9814945 best: 1736.9814945 (111) total: 2.38s remaining: 1.87s
112: learn: 1698.7392426 test: 1734.9719055 best: 1734.9719055 (112) total: 2.4s remaining: 1.85s
113: learn: 1697.3535892 test: 1733.8329262 best: 1733.8329262 (113) total: 2.42s remaining: 1.82s
114: learn: 1695.9922569 test: 1732.7207011 best: 1732.7207011 (114) total: 2.44s remaining: 1.8s
115: learn: 1694.1963766 test: 1731.2169156 best: 1731.2169156 (115) total: 2.46s remaining: 1.78s
116: learn: 1693.2422456 test: 1730.4793618 best: 1730.4793618 (116) total: 2.48s remaining: 1.76s
117: learn: 1692.2300719 test: 1729.6294324 best: 1729.6294324 (117) total: 2.5s remaining: 1.74s
118: learn: 1690.6550148 test: 1728.5730074 best: 1728.5730074 (118) total: 2.52s remaining: 1.71s
119: learn: 1689.1482950 test: 1727.5224300 best: 1727.5224300 (119) total: 2.54s remaining: 1.69s
120: learn: 1687.2992857 test: 1725.8275854 best: 1725.8275854 (120) total: 2.56s remaining: 1.67s
121: learn: 1685.5721300 test: 1724.6448029 best: 1724.6448029 (121) total: 2.58s remaining: 1.65s
122: learn: 1684.3737749 test: 1724.1571027 best: 1724.1571027 (122) total: 2.6s remaining: 1.63s
123: learn: 1683.1006111 test: 1723.5904404 best: 1723.5904404 (123) total: 2.62s remaining: 1.61s

124: learn: 1681.5076688 test: 1721.9535248 best: 1721.9535248 (124) total: 2.65s remaining: 1.59s
125: learn: 1680.3536040 test: 1720.8361296 best: 1720.8361296 (125) total: 2.67s remaining: 1.57s
126: learn: 1679.0631327 test: 1719.7044325 best: 1719.7044325 (126) total: 2.69s remaining: 1.54s
127: learn: 1678.1321183 test: 1719.1139229 best: 1719.1139229 (127) total: 2.71s remaining: 1.52s
128: learn: 1677.2176722 test: 1718.3472825 best: 1718.3472825 (128) total: 2.73s remaining: 1.5s
129: learn: 1675.8060110 test: 1716.9374628 best: 1716.9374628 (129) total: 2.74s remaining: 1.48s
130: learn: 1674.8594481 test: 1716.0983018 best: 1716.0983018 (130) total: 2.76s remaining: 1.46s
131: learn: 1674.1069915 test: 1715.7294424 best: 1715.7294424 (131) total: 2.78s remaining: 1.43s
132: learn: 1672.9440685 test: 1714.5804791 best: 1714.5804791 (132) total: 2.8s remaining: 1.41s
133: learn: 1671.7780958 test: 1713.7475128 best: 1713.7475128 (133) total: 2.83s remaining: 1.39s
134: learn: 1670.4624547 test: 1712.5817417 best: 1712.5817417 (134) total: 2.85s remaining: 1.37s
135: learn: 1668.9118739 test: 1711.3502627 best: 1711.3502627 (135) total: 2.87s remaining: 1.35s
136: learn: 1667.8934430 test: 1710.6140065 best: 1710.6140065 (136) total: 2.88s remaining: 1.33s
137: learn: 1666.8467064 test: 1710.1594438 best: 1710.1594438 (137) total: 2.9s remaining: 1.3s
138: learn: 1665.3689919 test: 1708.9681489 best: 1708.9681489 (138) total: 2.92s remaining: 1.28s
139: learn: 1663.7733970 test: 1707.8557081 best: 1707.8557081 (139) total: 2.95s remaining: 1.26s
140: learn: 1662.4709118 test: 1707.4011610 best: 1707.4011610 (140) total: 2.97s remaining: 1.24s
141: learn: 1660.9104960 test: 1706.5047417 best: 1706.5047417 (141) total: 2.99s remaining: 1.22s
142: learn: 1660.1066008 test: 1705.7373201 best: 1705.7373201 (142) total: 3.01s remaining: 1.2s
143: learn: 1659.0795910 test: 1705.1126973 best: 1705.1126973 (143) total: 3.03s remaining: 1.18s
144: learn: 1658.1508107 test: 1704.2790407 best: 1704.2790407 (144) total: 3.05s remaining: 1.16s
145: learn: 1657.0068936 test: 1703.4573411 best: 1703.4573411 (145) total: 3.07s remaining: 1.14s
146: learn: 1655.7436939 test: 1702.6192919 best: 1702.6192919 (146) total: 3.09s remaining: 1.11s
147: learn: 1654.9157521 test: 1702.3987811 best: 1702.3987811 (147) total: 3.11s remaining: 1.09s
148: learn: 1653.5391476 test: 1701.6690902 best: 1701.6690902 (148) total: 3.14s remaining: 1.07s
149: learn: 1652.9164869 test: 1701.2737757 best: 1701.2737757 (149) total: 3.15s remaining: 1.05s
150: learn: 1651.7150610 test: 1700.4795076 best: 1700.4795076 (150) total: 3.18s remaining: 1.03s
151: learn: 1650.8543278 test: 1699.8524253 best: 1699.8524253 (151) total: 3.2s remaining: 1.01s
152: learn: 1649.9190143 test: 1698.9221032 best: 1698.9221032 (152) total: 3.22s remaining: 990ms
153: learn: 1648.9848365 test: 1698.3172175 best: 1698.3172175 (153) total: 3.25s remaining: 971ms
154: learn: 1648.0845946 test: 1697.3745017 best: 1697.3745017 (154) total: 3.28s remaining: 952ms
155: learn: 1647.1780235 test: 1696.5330291 best: 1696.5330291 (155) total: 3.3s remaining: 930ms
156: learn: 1645.4829202 test: 1695.2159108 best: 1695.2159108 (156) total: 3.32s remaining: 910ms
157: learn: 1644.7524634 test: 1694.5799635 best: 1694.5799635 (157) total: 3.34s remaining: 888ms
158: learn: 1643.6805553 test: 1693.8188394 best: 1693.8188394 (158) total: 3.36s remaining: 867ms
159: learn: 1642.4780319 test: 1693.1653717 best: 1693.1653717 (159) total: 3.38s remaining: 846ms
160: learn: 1641.8862802 test: 1692.6750554 best: 1692.6750554 (160) total: 3.4s remaining: 824ms
161: learn: 1640.4634604 test: 1691.6280574 best: 1691.6280574 (161) total: 3.42s remaining: 803ms
162: learn: 1639.8459515 test: 1691.2670097 best: 1691.2670097 (162) total: 3.44s remaining: 781ms
163: learn: 1639.0839485 test: 1690.7341186 best: 1690.7341186 (163) total: 3.46s remaining: 759ms
164: learn: 1638.2362795 test: 1690.4135615 best: 1690.4135615 (164) total: 3.48s remaining: 738ms

165: learn: 1637.0105644 test: 1689.5181254 best: 1689.5181254 (165) total: 3.5s remaining: 717ms
166: learn: 1636.3138548 test: 1688.8909852 best: 1688.8909852 (166) total: 3.52s remaining: 695ms
167: learn: 1635.5097566 test: 1688.3965086 best: 1688.3965086 (167) total: 3.54s remaining: 674ms
168: learn: 1634.6937711 test: 1687.9501745 best: 1687.9501745 (168) total: 3.56s remaining: 653ms
169: learn: 1633.9516825 test: 1687.3665303 best: 1687.3665303 (169) total: 3.58s remaining: 631ms
170: learn: 1632.6622973 test: 1686.5828160 best: 1686.5828160 (170) total: 3.6s remaining: 610ms
171: learn: 1631.1380871 test: 1685.2392216 best: 1685.2392216 (171) total: 3.62s remaining: 590ms
172: learn: 1629.9914233 test: 1684.4621928 best: 1684.4621928 (172) total: 3.65s remaining: 569ms
173: learn: 1629.2042353 test: 1683.9821901 best: 1683.9821901 (173) total: 3.66s remaining: 548ms
174: learn: 1628.4887075 test: 1683.4712838 best: 1683.4712838 (174) total: 3.68s remaining: 526ms
175: learn: 1627.9274981 test: 1683.0930496 best: 1683.0930496 (175) total: 3.7s remaining: 505ms
176: learn: 1627.2183506 test: 1682.6120296 best: 1682.6120296 (176) total: 3.73s remaining: 484ms
177: learn: 1626.3324512 test: 1682.0985899 best: 1682.0985899 (177) total: 3.75s remaining: 463ms
178: learn: 1625.1971131 test: 1681.4142405 best: 1681.4142405 (178) total: 3.77s remaining: 442ms
179: learn: 1624.0612028 test: 1680.4940935 best: 1680.4940935 (179) total: 3.79s remaining: 421ms
180: learn: 1622.9658124 test: 1679.5728490 best: 1679.5728490 (180) total: 3.81s remaining: 400ms
181: learn: 1622.2502843 test: 1679.1800526 best: 1679.1800526 (181) total: 3.83s remaining: 379ms
182: learn: 1621.5033177 test: 1678.8203386 best: 1678.8203386 (182) total: 3.85s remaining: 358ms
183: learn: 1620.5767904 test: 1678.1937891 best: 1678.1937891 (183) total: 3.88s remaining: 337ms
184: learn: 1619.9239241 test: 1677.6837759 best: 1677.6837759 (184) total: 3.9s remaining: 316ms
185: learn: 1619.1733647 test: 1677.4977084 best: 1677.4977084 (185) total: 3.92s remaining: 295ms
186: learn: 1618.6967473 test: 1677.0580010 best: 1677.0580010 (186) total: 3.93s remaining: 274ms
187: learn: 1617.4886030 test: 1675.9068554 best: 1675.9068554 (187) total: 3.96s remaining: 252ms
188: learn: 1616.8596336 test: 1675.4120316 best: 1675.4120316 (188) total: 3.97s remaining: 231ms
189: learn: 1616.3253256 test: 1675.0407195 best: 1675.0407195 (189) total: 3.99s remaining: 210ms
190: learn: 1615.8082865 test: 1674.6312649 best: 1674.6312649 (190) total: 4.02s remaining: 189ms
191: learn: 1614.5925843 test: 1673.8670378 best: 1673.8670378 (191) total: 4.04s remaining: 168ms
192: learn: 1613.6396991 test: 1673.4789358 best: 1673.4789358 (192) total: 4.06s remaining: 147ms
193: learn: 1613.0706586 test: 1673.0346978 best: 1673.0346978 (193) total: 4.08s remaining: 126ms
194: learn: 1612.4361417 test: 1672.5958393 best: 1672.5958393 (194) total: 4.1s remaining: 105ms
195: learn: 1611.4050654 test: 1672.2317652 best: 1672.2317652 (195) total: 4.12s remaining: 84.1ms
196: learn: 1610.5821106 test: 1671.8144033 best: 1671.8144033 (196) total: 4.14s remaining: 63ms
197: learn: 1609.6941161 test: 1671.4029409 best: 1671.4029409 (197) total: 4.16s remaining: 42ms
198: learn: 1608.9060087 test: 1670.9934136 best: 1670.9934136 (198) total: 4.18s remaining: 21ms
199: learn: 1608.0681236 test: 1670.2663629 best: 1670.2663629 (199) total: 4.2s remaining: 0us

bestTest = 1670.266363

bestIteration = 199

Training on fold [2/3]

0: learn: 6378.3778459 test: 6419.9974820 best: 6419.9974820 (0) total: 28.9ms remaining: 5.76s

1: learn: 5852.7342395 test: 5891.2042261 best: 5891.2042261 (1) total: 61.3ms remaining: 6.07s
2: learn: 5381.4567092 test: 5417.9727944 best: 5417.9727944 (2) total: 91.4ms remaining: 6s
3: learn: 4964.1433732 test: 4998.8654020 best: 4998.8654020 (3) total: 119ms remaining: 5.84s
4: learn: 4596.7635145 test: 4629.0396283 best: 4629.0396283 (4) total: 142ms remaining: 5.55s
5: learn: 4261.8422801 test: 4292.9974803 best: 4292.9974803 (5) total: 165ms remaining: 5.33s
6: learn: 3967.2957158 test: 3996.7385159 best: 3996.7385159 (6) total: 187ms remaining: 5.16s
7: learn: 3709.9546456 test: 3737.4138312 best: 3737.4138312 (7) total: 210ms remaining: 5.04s
8: learn: 3480.3031815 test: 3506.4252560 best: 3506.4252560 (8) total: 233ms remaining: 4.95s
9: learn: 3280.7646324 test: 3304.6757362 best: 3304.6757362 (9) total: 255ms remaining: 4.85s
10: learn: 3110.2859994 test: 3133.0720790 best: 3133.0720790 (10) total: 277ms remaining: 4.76s
11: learn: 2954.9169228 test: 2976.5076557 best: 2976.5076557 (11) total: 298ms remaining: 4.66s
12: learn: 2823.0391896 test: 2844.1142974 best: 2844.1142974 (12) total: 321ms remaining: 4.61s
13: learn: 2704.9982083 test: 2724.7759439 best: 2724.7759439 (13) total: 341ms remaining: 4.53s
14: learn: 2605.8966400 test: 2624.4982345 best: 2624.4982345 (14) total: 362ms remaining: 4.46s
15: learn: 2518.5138059 test: 2536.1456835 best: 2536.1456835 (15) total: 383ms remaining: 4.41s
16: learn: 2442.8353617 test: 2459.8815918 best: 2459.8815918 (16) total: 404ms remaining: 4.35s
17: learn: 2376.6315153 test: 2392.7794487 best: 2392.7794487 (17) total: 426ms remaining: 4.31s
18: learn: 2319.3117104 test: 2334.9280398 best: 2334.9280398 (18) total: 448ms remaining: 4.27s
19: learn: 2271.6292371 test: 2286.3018044 best: 2286.3018044 (19) total: 468ms remaining: 4.21s
20: learn: 2219.1258292 test: 2233.2468084 best: 2233.2468084 (20) total: 489ms remaining: 4.17s
21: learn: 2181.5034566 test: 2195.0843063 best: 2195.0843063 (21) total: 516ms remaining: 4.17s
22: learn: 2142.7896120 test: 2155.9052100 best: 2155.9052100 (22) total: 537ms remaining: 4.13s
23: learn: 2112.7807632 test: 2125.7601626 best: 2125.7601626 (23) total: 557ms remaining: 4.09s
24: learn: 2084.9132277 test: 2097.8547468 best: 2097.8547468 (24) total: 580ms remaining: 4.06s
25: learn: 2059.1329481 test: 2071.5683427 best: 2071.5683427 (25) total: 601ms remaining: 4.02s
26: learn: 2033.9832644 test: 2045.3927337 best: 2045.3927337 (26) total: 624ms remaining: 4s
27: learn: 2015.5622320 test: 2026.9142555 best: 2026.9142555 (27) total: 644ms remaining: 3.96s
28: learn: 1998.9330743 test: 2009.6239841 best: 2009.6239841 (28) total: 665ms remaining: 3.92s
29: learn: 1983.2461458 test: 1993.4298927 best: 1993.4298927 (29) total: 686ms remaining: 3.89s
30: learn: 1968.8552681 test: 1978.7838942 best: 1978.7838942 (30) total: 711ms remaining: 3.87s
31: learn: 1953.2393870 test: 1962.7360259 best: 1962.7360259 (31) total: 732ms remaining: 3.84s
32: learn: 1942.6969881 test: 1951.9994364 best: 1951.9994364 (32) total: 751ms remaining: 3.8s
33: learn: 1932.5273151 test: 1941.1592593 best: 1941.1592593 (33) total: 771ms remaining: 3.77s
34: learn: 1921.9574116 test: 1931.8463824 best: 1931.8463824 (34) total: 792ms remaining: 3.73s
35: learn: 1913.1380164 test: 1922.8965573 best: 1922.8965573 (35) total: 813ms remaining: 3.71s
36: learn: 1904.9617029 test: 1914.4193854 best: 1914.4193854 (36) total: 833ms remaining: 3.67s
37: learn: 1896.8698566 test: 1906.2189561 best: 1906.2189561 (37) total: 853ms remaining: 3.64s
38: learn: 1890.4829215 test: 1899.9301751 best: 1899.9301751 (38) total: 872ms remaining: 3.6s
39: learn: 1882.7999190 test: 1891.9736129 best: 1891.9736129 (39) total: 893ms remaining: 3.57s
40: learn: 1875.6257437 test: 1885.5426846 best: 1885.5426846 (40) total: 916ms remaining: 3.55s
41: learn: 1869.7364238 test: 1879.7716567 best: 1879.7716567 (41) total: 936ms remaining: 3.52s
42: learn: 1863.3871145 test: 1873.8809503 best: 1873.8809503 (42) total: 956ms remaining: 3.49s

42: learn: 1853.3871143 test: 1873.3883303 best: 1873.3883303 (42) total: 350ms remaining: 3.45s
43: learn: 1858.8370726 test: 1868.9702116 best: 1868.9702116 (43) total: 975ms remaining: 3.46s
44: learn: 1854.1120001 test: 1864.3774238 best: 1864.3774238 (44) total: 995ms remaining: 3.43s
45: learn: 1848.1951591 test: 1858.5572978 best: 1858.5572978 (45) total: 1.02s remaining: 3.41s
46: learn: 1843.1499177 test: 1853.3908551 best: 1853.3908551 (46) total: 1.04s remaining: 3.38s
47: learn: 1838.8652560 test: 1849.4027408 best: 1849.4027408 (47) total: 1.06s remaining: 3.35s
48: learn: 1835.4239726 test: 1845.9075659 best: 1845.9075659 (48) total: 1.08s remaining: 3.32s
49: learn: 1830.9919634 test: 1841.6797419 best: 1841.6797419 (49) total: 1.1s remaining: 3.31s
50: learn: 1826.7715380 test: 1837.5969261 best: 1837.5969261 (50) total: 1.13s remaining: 3.29s
51: learn: 1823.2894254 test: 1834.1685730 best: 1834.1685730 (51) total: 1.15s remaining: 3.26s
52: learn: 1820.1357834 test: 1831.2672985 best: 1831.2672985 (52) total: 1.17s remaining: 3.24s
53: learn: 1816.7164723 test: 1828.6914132 best: 1828.6914132 (53) total: 1.19s remaining: 3.21s
54: learn: 1813.1707672 test: 1825.5215819 best: 1825.5215819 (54) total: 1.21s remaining: 3.18s
55: learn: 1809.1208618 test: 1821.8503614 best: 1821.8503614 (55) total: 1.23s remaining: 3.16s
56: learn: 1805.9537273 test: 1818.7764373 best: 1818.7764373 (56) total: 1.25s remaining: 3.13s
57: learn: 1803.2547319 test: 1816.1878859 best: 1816.1878859 (57) total: 1.27s remaining: 3.11s
58: learn: 1801.0312390 test: 1814.0688384 best: 1814.0688384 (58) total: 1.29s remaining: 3.08s
59: learn: 1797.5879599 test: 1811.0049221 best: 1811.0049221 (59) total: 1.31s remaining: 3.06s
60: learn: 1795.1620433 test: 1808.9425549 best: 1808.9425549 (60) total: 1.33s remaining: 3.04s
61: learn: 1792.6054456 test: 1806.2986740 best: 1806.2986740 (61) total: 1.35s remaining: 3.01s
62: learn: 1789.1868710 test: 1803.9500272 best: 1803.9500272 (62) total: 1.37s remaining: 2.99s
63: learn: 1786.0601114 test: 1801.0527990 best: 1801.0527990 (63) total: 1.39s remaining: 2.96s
64: learn: 1783.9510648 test: 1799.2866497 best: 1799.2866497 (64) total: 1.41s remaining: 2.94s
65: learn: 1780.9370156 test: 1796.0983479 best: 1796.0983479 (65) total: 1.43s remaining: 2.91s
66: learn: 1778.5272849 test: 1793.7979333 best: 1793.7979333 (66) total: 1.46s remaining: 2.89s
67: learn: 1776.0083203 test: 1791.5761078 best: 1791.5761078 (67) total: 1.48s remaining: 2.87s
68: learn: 1772.9780098 test: 1788.6625145 best: 1788.6625145 (68) total: 1.51s remaining: 2.86s
69: learn: 1771.2661010 test: 1787.0234281 best: 1787.0234281 (69) total: 1.52s remaining: 2.83s
70: learn: 1769.2379449 test: 1784.9016699 best: 1784.9016699 (70) total: 1.54s remaining: 2.81s
71: learn: 1766.1523540 test: 1782.2038668 best: 1782.2038668 (71) total: 1.56s remaining: 2.78s
72: learn: 1763.6521465 test: 1779.7998055 best: 1779.7998055 (72) total: 1.58s remaining: 2.76s
73: learn: 1761.9716848 test: 1778.2328219 best: 1778.2328219 (73) total: 1.6s remaining: 2.73s
74: learn: 1760.1081049 test: 1776.6774193 best: 1776.6774193 (74) total: 1.62s remaining: 2.71s
75: learn: 1758.1563460 test: 1775.1726307 best: 1775.1726307 (75) total: 1.64s remaining: 2.68s
76: learn: 1756.7523321 test: 1774.0269194 best: 1774.0269194 (76) total: 1.66s remaining: 2.66s
77: learn: 1754.8106920 test: 1772.2855327 best: 1772.2855327 (77) total: 1.68s remaining: 2.63s
78: learn: 1752.8429648 test: 1770.8792428 best: 1770.8792428 (78) total: 1.71s remaining: 2.61s
79: learn: 1751.3216073 test: 1769.4131558 best: 1769.4131558 (79) total: 1.72s remaining: 2.59s
80: learn: 1748.5750008 test: 1767.0934510 best: 1767.0934510 (80) total: 1.75s remaining: 2.56s
81: learn: 1747.2036562 test: 1766.1240710 best: 1766.1240710 (81) total: 1.76s remaining: 2.54s
82: learn: 1745.0706385 test: 1764.7890782 best: 1764.7890782 (82) total: 1.78s remaining: 2.52s
83: learn: 1743.4800950 test: 1763.1964404 best: 1763.1964404 (83) total: 1.81s remaining: 2.5s

84: learn: 1741.5937842 test: 1761.5189545 best: 1761.5189545 (84) total: 1.83s remaining: 2.47s
85: learn: 1739.6121834 test: 1760.0441297 best: 1760.0441297 (85) total: 1.85s remaining: 2.45s
86: learn: 1735.9982467 test: 1756.8425995 best: 1756.8425995 (86) total: 1.87s remaining: 2.43s
87: learn: 1734.7396098 test: 1755.8000644 best: 1755.8000644 (87) total: 1.89s remaining: 2.4s
88: learn: 1733.4730582 test: 1754.6834100 best: 1754.6834100 (88) total: 1.91s remaining: 2.38s
89: learn: 1731.8949916 test: 1753.6609486 best: 1753.6609486 (89) total: 1.93s remaining: 2.36s
90: learn: 1730.6362905 test: 1752.8590339 best: 1752.8590339 (90) total: 1.95s remaining: 2.33s
91: learn: 1729.3615526 test: 1751.7234656 best: 1751.7234656 (91) total: 1.97s remaining: 2.31s
92: learn: 1727.7844844 test: 1750.0540064 best: 1750.0540064 (92) total: 1.99s remaining: 2.29s
93: learn: 1725.3437357 test: 1748.4383715 best: 1748.4383715 (93) total: 2.01s remaining: 2.27s
94: learn: 1723.9420066 test: 1747.0248020 best: 1747.0248020 (94) total: 2.03s remaining: 2.24s
95: learn: 1722.4278711 test: 1745.9490838 best: 1745.9490838 (95) total: 2.05s remaining: 2.22s
96: learn: 1720.9403424 test: 1744.7818053 best: 1744.7818053 (96) total: 2.07s remaining: 2.2s
97: learn: 1719.6448078 test: 1743.8020964 best: 1743.8020964 (97) total: 2.09s remaining: 2.17s
98: learn: 1718.8321362 test: 1742.9943297 best: 1742.9943297 (98) total: 2.11s remaining: 2.15s
99: learn: 1717.4681457 test: 1741.9064316 best: 1741.9064316 (99) total: 2.13s remaining: 2.13s
100: learn: 1715.8646182 test: 1740.5649100 best: 1740.5649100 (100) total: 2.15s remaining: 2.11s
101: learn: 1714.1904830 test: 1739.4697271 best: 1739.4697271 (101) total: 2.17s remaining: 2.09s
102: learn: 1712.2961391 test: 1738.4088079 best: 1738.4088079 (102) total: 2.2s remaining: 2.07s
103: learn: 1710.8715331 test: 1737.3410959 best: 1737.3410959 (103) total: 2.22s remaining: 2.05s
104: learn: 1709.2615390 test: 1736.0220357 best: 1736.0220357 (104) total: 2.24s remaining: 2.02s
105: learn: 1707.7318560 test: 1734.5232836 best: 1734.5232836 (105) total: 2.26s remaining: 2s
106: learn: 1706.4763976 test: 1733.5447076 best: 1733.5447076 (106) total: 2.28s remaining: 1.98s
107: learn: 1705.1381825 test: 1732.2447503 best: 1732.2447503 (107) total: 2.3s remaining: 1.96s
108: learn: 1703.4131501 test: 1730.5278168 best: 1730.5278168 (108) total: 2.32s remaining: 1.94s
109: learn: 1702.0051632 test: 1729.4821571 best: 1729.4821571 (109) total: 2.34s remaining: 1.92s
110: learn: 1699.5968601 test: 1728.0626141 best: 1728.0626141 (110) total: 2.36s remaining: 1.89s
111: learn: 1698.3270596 test: 1727.0865940 best: 1727.0865940 (111) total: 2.39s remaining: 1.88s
112: learn: 1696.9301304 test: 1725.7672453 best: 1725.7672453 (112) total: 2.42s remaining: 1.86s
113: learn: 1695.7825917 test: 1724.9857957 best: 1724.9857957 (113) total: 2.44s remaining: 1.84s
114: learn: 1694.5380463 test: 1723.7565390 best: 1723.7565390 (114) total: 2.46s remaining: 1.82s
115: learn: 1693.4566178 test: 1722.9419489 best: 1722.9419489 (115) total: 2.48s remaining: 1.8s
116: learn: 1692.0081586 test: 1721.9932221 best: 1721.9932221 (116) total: 2.51s remaining: 1.78s
117: learn: 1690.3030757 test: 1721.0214979 best: 1721.0214979 (117) total: 2.53s remaining: 1.76s
118: learn: 1689.0565615 test: 1719.7481468 best: 1719.7481468 (118) total: 2.55s remaining: 1.74s
119: learn: 1688.0267526 test: 1718.9859591 best: 1718.9859591 (119) total: 2.57s remaining: 1.72s
120: learn: 1686.5051389 test: 1717.6461898 best: 1717.6461898 (120) total: 2.6s remaining: 1.7s
121: learn: 1685.4151122 test: 1716.8690837 best: 1716.8690837 (121) total: 2.62s remaining: 1.68s
122: learn: 1683.9976749 test: 1715.4795400 best: 1715.4795400 (122) total: 2.64s remaining: 1.65s
123: learn: 1682.9993596 test: 1714.8936383 best: 1714.8936383 (123) total: 2.66s remaining: 1.63s
124: learn: 1682.1782895 test: 1714.0057788 best: 1714.0057788 (124) total: 2.68s remaining: 1.61s

125: learn: 1680.0198549 test: 1712.5865739 best: 1712.5865739 (125) total: 2.71s remaining: 1.59s
126: learn: 1677.9639266 test: 1711.1236729 best: 1711.1236729 (126) total: 2.73s remaining: 1.57s
127: learn: 1676.7556184 test: 1710.2128780 best: 1710.2128780 (127) total: 2.75s remaining: 1.55s
128: learn: 1675.5035263 test: 1709.4533130 best: 1709.4533130 (128) total: 2.77s remaining: 1.53s
129: learn: 1674.6324023 test: 1708.6235366 best: 1708.6235366 (129) total: 2.8s remaining: 1.51s
130: learn: 1673.5566490 test: 1707.9379833 best: 1707.9379833 (130) total: 2.82s remaining: 1.49s
131: learn: 1672.3774154 test: 1707.3189665 best: 1707.3189665 (131) total: 2.84s remaining: 1.46s
132: learn: 1670.8936916 test: 1706.4411407 best: 1706.4411407 (132) total: 2.86s remaining: 1.44s
133: learn: 1669.7018561 test: 1705.5835708 best: 1705.5835708 (133) total: 2.88s remaining: 1.42s
134: learn: 1668.2915551 test: 1704.7453996 best: 1704.7453996 (134) total: 2.91s remaining: 1.4s
135: learn: 1667.6024399 test: 1704.1515165 best: 1704.1515165 (135) total: 2.93s remaining: 1.38s
136: learn: 1666.1383782 test: 1702.8697478 best: 1702.8697478 (136) total: 2.95s remaining: 1.35s
137: learn: 1664.6179559 test: 1701.3994388 best: 1701.3994388 (137) total: 2.97s remaining: 1.33s
138: learn: 1663.7415976 test: 1700.6428044 best: 1700.6428044 (138) total: 2.99s remaining: 1.31s
139: learn: 1662.6251957 test: 1699.8293517 best: 1699.8293517 (139) total: 3.02s remaining: 1.29s
140: learn: 1661.3971736 test: 1698.7597855 best: 1698.7597855 (140) total: 3.04s remaining: 1.27s
141: learn: 1660.5685317 test: 1698.5081499 best: 1698.5081499 (141) total: 3.06s remaining: 1.25s
142: learn: 1659.4302107 test: 1697.9359370 best: 1697.9359370 (142) total: 3.08s remaining: 1.23s
143: learn: 1658.2043875 test: 1696.9379048 best: 1696.9379048 (143) total: 3.11s remaining: 1.21s
144: learn: 1656.8389650 test: 1695.8891533 best: 1695.8891533 (144) total: 3.13s remaining: 1.19s
145: learn: 1655.7027793 test: 1695.1278233 best: 1695.1278233 (145) total: 3.15s remaining: 1.17s
146: learn: 1654.3824866 test: 1694.1993784 best: 1694.1993784 (146) total: 3.17s remaining: 1.14s
147: learn: 1653.5819563 test: 1693.6236263 best: 1693.6236263 (147) total: 3.2s remaining: 1.13s
148: learn: 1652.7567328 test: 1692.7678720 best: 1692.7678720 (148) total: 3.22s remaining: 1.1s
149: learn: 1652.0500940 test: 1692.2369556 best: 1692.2369556 (149) total: 3.24s remaining: 1.08s
150: learn: 1650.7579178 test: 1691.4609634 best: 1691.4609634 (150) total: 3.26s remaining: 1.06s
151: learn: 1649.8353531 test: 1690.6923537 best: 1690.6923537 (151) total: 3.28s remaining: 1.04s
152: learn: 1648.8985366 test: 1690.0923069 best: 1690.0923069 (152) total: 3.31s remaining: 1.02s
153: learn: 1647.7256612 test: 1689.1493403 best: 1689.1493403 (153) total: 3.33s remaining: 994ms
154: learn: 1646.4172769 test: 1688.2806654 best: 1688.2806654 (154) total: 3.35s remaining: 972ms
155: learn: 1645.4121156 test: 1687.2999155 best: 1687.2999155 (155) total: 3.37s remaining: 950ms
156: learn: 1644.1009859 test: 1686.6236535 best: 1686.6236535 (156) total: 3.39s remaining: 930ms
157: learn: 1642.9934760 test: 1685.7558297 best: 1685.7558297 (157) total: 3.42s remaining: 908ms
158: learn: 1642.3280805 test: 1685.0911231 best: 1685.0911231 (158) total: 3.44s remaining: 886ms
159: learn: 1641.4375717 test: 1684.2840133 best: 1684.2840133 (159) total: 3.46s remaining: 864ms
160: learn: 1640.3668833 test: 1683.5679640 best: 1683.5679640 (160) total: 3.48s remaining: 843ms
161: learn: 1639.6288047 test: 1683.1084095 best: 1683.1084095 (161) total: 3.51s remaining: 823ms
162: learn: 1638.9214570 test: 1682.4960194 best: 1682.4960194 (162) total: 3.53s remaining: 801ms
163: learn: 1637.5860839 test: 1681.5353941 best: 1681.5353941 (163) total: 3.55s remaining: 779ms
164: learn: 1636.9617101 test: 1680.9456557 best: 1680.9456557 (164) total: 3.57s remaining: 757ms
165: learn: 1635.7748611 test: 1680.0087726 best: 1680.0087726 (165) total: 3.6s remaining: 737ms

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166: learn: 1634.3937403 test: 1679.3349647 best: 1679.3349647 (166) total: 3.62s remaining: 715ms
167: learn: 1633.6854045 test: 1678.7323436 best: 1678.7323436 (167) total: 3.64s remaining: 693ms
168: learn: 1631.8526796 test: 1677.4443352 best: 1677.4443352 (168) total: 3.66s remaining: 671ms
169: learn: 1630.6987493 test: 1676.9920322 best: 1676.9920322 (169) total: 3.68s remaining: 649ms
170: learn: 1629.5608187 test: 1676.2333755 best: 1676.2333755 (170) total: 3.71s remaining: 629ms
171: learn: 1628.8880765 test: 1676.0314215 best: 1676.0314215 (171) total: 3.73s remaining: 607ms
172: learn: 1627.6034981 test: 1675.4987480 best: 1675.4987480 (172) total: 3.75s remaining: 585ms
173: learn: 1626.4688016 test: 1674.9162253 best: 1674.9162253 (173) total: 3.77s remaining: 563ms
174: learn: 1624.9613978 test: 1673.8545961 best: 1673.8545961 (174) total: 3.79s remaining: 542ms
175: learn: 1623.9349059 test: 1673.2770286 best: 1673.2770286 (175) total: 3.82s remaining: 521ms
176: learn: 1623.3821642 test: 1673.0519593 best: 1673.0519593 (176) total: 3.84s remaining: 499ms
177: learn: 1622.3075587 test: 1672.0971310 best: 1672.0971310 (177) total: 3.86s remaining: 477ms
178: learn: 1621.2022482 test: 1671.7278038 best: 1671.7278038 (178) total: 3.88s remaining: 455ms
179: learn: 1620.7325135 test: 1671.3731966 best: 1671.3731966 (179) total: 3.91s remaining: 434ms
180: learn: 1620.1029294 test: 1671.0946547 best: 1671.0946547 (180) total: 3.93s remaining: 412ms
181: learn: 1618.9168206 test: 1670.3038791 best: 1670.3038791 (181) total: 3.95s remaining: 390ms
182: learn: 1617.5921249 test: 1669.4265764 best: 1669.4265764 (182) total: 3.97s remaining: 369ms
183: learn: 1616.8404848 test: 1668.9832023 best: 1668.9832023 (183) total: 4s remaining: 348ms
184: learn: 1615.1770260 test: 1667.9987092 best: 1667.9987092 (184) total: 4.02s remaining: 326ms
185: learn: 1614.4403626 test: 1667.3156180 best: 1667.3156180 (185) total: 4.04s remaining: 304ms
186: learn: 1613.5496838 test: 1666.7666086 best: 1666.7666086 (186) total: 4.06s remaining: 282ms
187: learn: 1612.8111795 test: 1666.3812457 best: 1666.3812457 (187) total: 4.08s remaining: 260ms
188: learn: 1611.9819683 test: 1665.7565711 best: 1665.7565711 (188) total: 4.11s remaining: 239ms
189: learn: 1611.4351753 test: 1665.4309614 best: 1665.4309614 (189) total: 4.13s remaining: 217ms
190: learn: 1610.5364506 test: 1664.7881192 best: 1664.7881192 (190) total: 4.15s remaining: 195ms
191: learn: 1609.6473358 test: 1663.9735401 best: 1663.9735401 (191) total: 4.17s remaining: 174ms
192: learn: 1608.8517990 test: 1663.3182545 best: 1663.3182545 (192) total: 4.2s remaining: 152ms
193: learn: 1608.1021220 test: 1662.8513956 best: 1662.8513956 (193) total: 4.23s remaining: 131ms
194: learn: 1607.3783395 test: 1662.3972394 best: 1662.3972394 (194) total: 4.25s remaining: 109ms
195: learn: 1606.6941924 test: 1661.9843438 best: 1661.9843438 (195) total: 4.28s remaining: 87.2ms
196: learn: 1605.8492631 test: 1661.6119233 best: 1661.6119233 (196) total: 4.31s remaining: 65.6ms
197: learn: 1605.2321973 test: 1661.6600544 best: 1661.6119233 (196) total: 4.32s remaining: 43.7ms
198: learn: 1604.1854017 test: 1660.9691346 best: 1660.9691346 (198) total: 4.34s remaining: 21.8ms
199: learn: 1603.5594343 test: 1660.6912424 best: 1660.6912424 (199) total: 4.36s remaining: 0us
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bestTest = 1660.691242

bestIteration = 199

Out[34]:

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{'params': {'depth': 8,
 'iterations': 200,
 'learning_rate': 0.1,
 'l2_leaf_reg': 0.2},
 'cv_results': defaultdict(list)}
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cv_results : defaultdict(list,
{'iterations': [0,
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3.092749504686933,
2.9335237426632705,
3.093674066315009,
3.384738636583715,
4.346747450509003,
4.132863703641914,
4.157713874954513,
4.125822148319081,
3.7859704204019944,
3.7395971509669104,
3.9592546710602057,
3.566815625157152

3.766045665155459,
4.208829127843122,
4.092234952543971,
3.9953875391726554,
4.3133741639580725,
4.415003304563924,
4.45075396456302,
4.840400196942882,
4.663649965322174,
4.6020824262111875,
4.633481283274504,
4.554172497380723,
4.499979091567558,
4.1801633003388465,
3.7573988673617333,
3.6468936875893814,
3.421569546995965,
3.453005767055177,
3.1427163798096593,
2.7496129230364477,
3.159004100522435,
3.359369590705088,
3.434736523955859,
3.757627130981755,
3.806193687890428,
3.930038125915034,
3.921201424762266,
3.8139844442248187,
3.7154821934426394,
3.6207306686207628,
3.464564456290334,
3.243434951018133,
2.76501623449972,
2.6199537544102385,
2.3024204550853766,
2.279552235390169,
2.373044218040658,
2.4274279659733318,
2.8108211591040653,
2.3916908704116664,
2.4934955583059755,
2.349875299940482,
2.747346643428013,
2.5077531659355987,
2.613447686259776,
2.6177162081326193,
2.627447387312407,
2.664649607602966,
2.6483483093863676,
2.7183501035840587,
2.7479141337075657,
2.858916906909589,
2.774755318465833,
2.737000794516787,
2.898529864247787,
2.9997520457082545,
3.0553422258085567,
3.1224052810725533,
2.966076297965716,
3.0689559613505284,
3.1149391201558743,
3.1360870786181927,
3.271431396422844,
3.2056363366155667,
2.9785304167006386,
2.8433231796820944,
2.9927576547435013,
3.1103697198939004,
3.2446453276686578,
3.3457350006773106,
3.188838853317562,
3.050770567292755,
2.701748961270915,
2.738953566647178,
2.963868327436613,
3.048591796425142,
3.05738176997741,
3.4109095598692996,
3.293377977609429,
3.4069125123062327,
3.2813274679876296,
3.6215829049865667,
3.7295289831518597.

```
3.822477912096578,  
3.705183298532411,  
3.81281871484711,  
3.9683766692278555,  
3.9945993982844668,  
3.761834345983845,  
3.74020695972618,  
3.659094624687545,  
3.6358389202316785,  
3.5390246968359294]})}
```

In [35]:

```
print(model_cb.get_best_score())
```

```
{'learn': {'RMSE': 1614.066780200654}}
```

In [36]:

```
print("params": "depth": 8, "iterations": 200, "learning_rate": 0.1, "l2_leaf_reg": 0.2})
```

```
"params": "depth": 8, "iterations": 200, "learning_rate": 0.1, "l2_leaf_reg": 0.2}
```

LGBMRegressor

In [37]:

```
# Также происходит деление на data для работы LGBM  
train_data = lgbm.Dataset(features_train_merge, label=target_train)  
valid_data = lgbm.Dataset(features_valid_merge, label=target_valid)  
test_data = lgbm.Dataset(features_test_merge, label=target_test)
```

In [38]:

```
param_test ={'num_leaves': sp_randint(6, 50),  
             'min_child_samples': sp_randint(100, 500),  
             'min_child_weight': [1e-5, 1e-3, 1e-2, 1e-1, 1, 1e1, 1e2, 1e3, 1e4],  
             'subsample': sp_uniform(loc=0.2, scale=0.8),  
             'colsample_bytree': sp_uniform(loc=0.4, scale=0.6),  
             'reg_alpha': [0, 1e-1, 1, 2, 5, 7, 10, 50, 100],  
             'reg_lambda': [0, 1e-1, 1, 5, 10, 20, 50, 100]}
```

In [39]:

```
n_HP_points_to_test = 5  
  
clf = lgbm.LGBMRegressor(max_depth=-1, random_state=12345, n_jobs=4, n_estimators=1000)  
gs = RandomizedSearchCV(  
    estimator=clf, param_distributions=param_test,  
    n_iter=n_HP_points_to_test,  
    scoring='neg_root_mean_squared_error',  
    cv=3,  
    refit=True,  
    random_state=314,  
    verbose=True)
```

In [40]:

```
fit_params={"early_stopping_rounds":30,  
            "eval_metric" : 'rmse',  
            "eval_set" : [(features_valid_merge, target_valid)],  
            'eval_names': ['valid'],  
            'verbose': 100,  
            'categorical_feature': 'auto'}
```

In [41]:

```
gs.fit(features_train_merge, target_train, **fit_params)  
print('Best score reached: {} with params: {}'.format(gs.best_score_, gs.best_params_))
```

Fitting 3 folds for each of 5 candidates, totalling 15 fits

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:726: UserWarning: 'early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. Pass 'early_stopping()' callback via 'callbacks' argument instead.  
_log_warning("early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM."  
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:736: UserWarning: 'verbose' argument is deprecated and will be removed in a future release of LightGBM. Pass 'log_evaluation()' callback via 'callbacks' argument instead.  
_log_warning("verbose' argument is deprecated and will be removed in a future release of LightGBM."  
[100] valid's rmse: 1746.63 valid's l2: 3.05071e+06  
[200] valid's rmse: 1702.89 valid's l2: 2.89982e+06  
[300] valid's rmse: 1682.52 valid's l2: 2.83087e+06  
[400] valid's rmse: 1667.53 valid's l2: 2.78066e+06  
[500] valid's rmse: 1656.63 valid's l2: 2.74441e+06  
[600] valid's rmse: 1647.52 valid's l2: 2.71432e+06  
[700] valid's rmse: 1642.01 valid's l2: 2.69619e+06  
[800] valid's rmse: 1636.69 valid's l2: 2.67875e+06  
[900] valid's rmse: 1631.57 valid's l2: 2.66202e+06  
[1000] valid's rmse: 1628.09 valid's l2: 2.65067e+06
```

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:726: UserWarning: 'early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. Pass 'early_stopping()' callback via 'callbacks' argument instead.  
_log_warning("early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM."  
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:736: UserWarning: 'verbose' argument is deprecated and will be removed in a future release of LightGBM. Pass 'log_evaluation()' callback via 'callbacks' argument instead.  
_log_warning("verbose' argument is deprecated and will be removed in a future release of LightGBM."  
[100] valid's rmse: 1743.29 valid's l2: 3.03907e+06  
[200] valid's rmse: 1700.65 valid's l2: 2.89223e+06  
[300] valid's rmse: 1681.36 valid's l2: 2.82697e+06  
[400] valid's rmse: 1668.9 valid's l2: 2.78522e+06  
[500] valid's rmse: 1657.92 valid's l2: 2.7487e+06  
[600] valid's rmse: 1650.12 valid's l2: 2.72288e+06  
[700] valid's rmse: 1643.74 valid's l2: 2.70187e+06  
[800] valid's rmse: 1637.91 valid's l2: 2.68274e+06  
[900] valid's rmse: 1633.84 valid's l2: 2.66945e+06  
[1000] valid's rmse: 1629.42 valid's l2: 2.65501e+06
```

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:726: UserWarning: 'early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. Pass 'early_stopping()' callback via 'callbacks' argument instead.  
_log_warning("early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM."  
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:736: UserWarning: 'verbose' argument is deprecated and will be removed in a future release of LightGBM. Pass 'log_evaluation()' callback via 'callbacks' argument instead.  
_log_warning("verbose' argument is deprecated and will be removed in a future release of LightGBM."  
[100] valid's rmse: 1747.01 valid's l2: 3.05203e+06  
[200] valid's rmse: 1702.88 valid's l2: 2.89979e+06  
[300] valid's rmse: 1683.31 valid's l2: 2.83352e+06  
[400] valid's rmse: 1669.49 valid's l2: 2.78721e+06  
[500] valid's rmse: 1659.41 valid's l2: 2.75365e+06
```

```
[300] valid's rmse: 1633.17 valid's l2: 2.72836e+06
```

```
[700] valid's rmse: 1645.56 valid's l2: 2.70785e+06
```

```
[800] valid's rmse: 1640.93 valid's l2: 2.69266e+06
```

```
[900] valid's rmse: 1636.11 valid's l2: 2.67684e+06
```

```
[1000] valid's rmse: 1631.75 valid's l2: 2.66261e+06
```

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:726: UserWarning: 'early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. Pass 'early_stopping()' callback via 'callbacks' argument instead.
```

```
_log_warning("early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. ")
```

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:736: UserWarning: 'verbose' argument is deprecated and will be removed in a future release of LightGBM. Pass 'log_evaluation()' callback via 'callbacks' argument instead.
```

```
_log_warning("verbose' argument is deprecated and will be removed in a future release of LightGBM. ")
```

```
[100] valid's rmse: 1713.34 valid's l2: 2.93554e+06
```

```
[200] valid's rmse: 1666.01 valid's l2: 2.77561e+06
```

```
[300] valid's rmse: 1643.96 valid's l2: 2.7026e+06
```

```
[400] valid's rmse: 1630.71 valid's l2: 2.65923e+06
```

```
[500] valid's rmse: 1621.29 valid's l2: 2.62857e+06
```

```
[600] valid's rmse: 1614.87 valid's l2: 2.60781e+06
```

```
[700] valid's rmse: 1609.01 valid's l2: 2.58893e+06
```

```
[800] valid's rmse: 1604.05 valid's l2: 2.57297e+06
```

```
[900] valid's rmse: 1600.66 valid's l2: 2.56212e+06
```

```
[1000] valid's rmse: 1597.5 valid's l2: 2.552e+06
```

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:726: UserWarning: 'early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. Pass 'early_stopping()' callback via 'callbacks' argument instead.
```

```
_log_warning("early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. ")
```

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:736: UserWarning: 'verbose' argument is deprecated and will be removed in a future release of LightGBM. Pass 'log_evaluation()' callback via 'callbacks' argument instead.
```

```
_log_warning("verbose' argument is deprecated and will be removed in a future release of LightGBM. ")
```

```
[100] valid's rmse: 1709.68 valid's l2: 2.92301e+06
```

```
[200] valid's rmse: 1666.69 valid's l2: 2.77786e+06
```

```
[300] valid's rmse: 1647.25 valid's l2: 2.71345e+06
```

```
[400] valid's rmse: 1633.79 valid's l2: 2.66928e+06
```

```
[500] valid's rmse: 1624.25 valid's l2: 2.63818e+06
```

```
[600] valid's rmse: 1617.75 valid's l2: 2.61711e+06
```

```
[700] valid's rmse: 1612.43 valid's l2: 2.59992e+06
```

```
[800] valid's rmse: 1607.97 valid's l2: 2.58557e+06
```

```
[900] valid's rmse: 1604.19 valid's l2: 2.57341e+06
```

```
[1000] valid's rmse: 1601.14 valid's l2: 2.56365e+06
```

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:726: UserWarning: 'early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. Pass 'early_stopping()' callback via 'callbacks' argument instead.
```

```
_log_warning("early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. ")
```

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:736: UserWarning: 'verbose' argument is deprecated and will be removed in a future release of LightGBM. Pass 'log_evaluation()' callback via 'callbacks' argument instead.
```

_log_warning("verbose' argument is deprecated and will be removed in a future release of LightGBM. "

[100] valid's rmse: 1713.95 valid's l2: 2.93762e+06

[200] valid's rmse: 1670.6 valid's l2: 2.79089e+06

[300] valid's rmse: 1647.99 valid's l2: 2.71588e+06

[400] valid's rmse: 1634.43 valid's l2: 2.67137e+06

[500] valid's rmse: 1624.47 valid's l2: 2.6389e+06

[600] valid's rmse: 1618.22 valid's l2: 2.61865e+06

[700] valid's rmse: 1613.73 valid's l2: 2.60413e+06

[800] valid's rmse: 1608.86 valid's l2: 2.58844e+06

[900] valid's rmse: 1604.39 valid's l2: 2.57407e+06

[1000] valid's rmse: 1601.05 valid's l2: 2.56335e+06

/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:726: UserWarning: 'early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. Pass 'early_stopping()' callback via 'callbacks' argument instead.

_log_warning("early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. "

/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:736: UserWarning: 'verbose' argument is deprecated and will be removed in a future release of LightGBM. Pass 'log_evaluation()' callback via 'callbacks' argument instead.

_log_warning("verbose' argument is deprecated and will be removed in a future release of LightGBM. "

[100] valid's rmse: 2288.66 valid's l2: 5.23797e+06

[200] valid's rmse: 2227.47 valid's l2: 4.96164e+06

[300] valid's rmse: 2200.36 valid's l2: 4.8416e+06

[400] valid's rmse: 2183.38 valid's l2: 4.76714e+06

[500] valid's rmse: 2170.77 valid's l2: 4.71224e+06

[600] valid's rmse: 2160.82 valid's l2: 4.66916e+06

[700] valid's rmse: 2152.05 valid's l2: 4.63131e+06

[800] valid's rmse: 2144.27 valid's l2: 4.59791e+06

[900] valid's rmse: 2137.12 valid's l2: 4.56727e+06

[1000] valid's rmse: 2132.3 valid's l2: 4.54669e+06

/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:726: UserWarning: 'early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. Pass 'early_stopping()' callback via 'callbacks' argument instead.

_log_warning("early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. "

/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:736: UserWarning: 'verbose' argument is deprecated and will be removed in a future release of LightGBM. Pass 'log_evaluation()' callback via 'callbacks' argument instead.

_log_warning("verbose' argument is deprecated and will be removed in a future release of LightGBM. "

[100] valid's rmse: 2289.33 valid's l2: 5.24101e+06

[200] valid's rmse: 2231.05 valid's l2: 4.97757e+06

[300] valid's rmse: 2200.72 valid's l2: 4.84316e+06

[400] valid's rmse: 2182.79 valid's l2: 4.76459e+06

[500] valid's rmse: 2170.85 valid's l2: 4.71259e+06

[600] valid's rmse: 2161.2 valid's l2: 4.6708e+06

[700] valid's rmse: 2152.87 valid's l2: 4.63486e+06

[800] valid's rmse: 2145.73 valid's l2: 4.60415e+06

[900] valid's rmse: 2139.5 valid's l2: 4.57746e+06

```
[100] valid's rmse: 2133.91 valid's l2: 4.55359e+06
```

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:726: UserWarning: 'early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. Pass 'early_stopping()' callback via 'callbacks' argument instead.
```

```
_log_warning("early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. ")
```

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:736: UserWarning: 'verbose' argument is deprecated and will be removed in a future release of LightGBM. Pass 'log_evaluation()' callback via 'callbacks' argument instead.
```

```
_log_warning("verbose' argument is deprecated and will be removed in a future release of LightGBM. ")
```

```
[100] valid's rmse: 2288.73 valid's l2: 5.23827e+06
```

```
[200] valid's rmse: 2225.86 valid's l2: 4.95444e+06
```

```
[300] valid's rmse: 2198.24 valid's l2: 4.83228e+06
```

```
[400] valid's rmse: 2180.99 valid's l2: 4.75672e+06
```

```
[500] valid's rmse: 2167.12 valid's l2: 4.6964e+06
```

```
[600] valid's rmse: 2158.36 valid's l2: 4.65851e+06
```

```
[700] valid's rmse: 2150.29 valid's l2: 4.62377e+06
```

```
[800] valid's rmse: 2143.5 valid's l2: 4.59458e+06
```

```
[900] valid's rmse: 2137.23 valid's l2: 4.56773e+06
```

```
[1000] valid's rmse: 2131.75 valid's l2: 4.54438e+06
```

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:726: UserWarning: 'early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. Pass 'early_stopping()' callback via 'callbacks' argument instead.
```

```
_log_warning("early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. ")
```

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:736: UserWarning: 'verbose' argument is deprecated and will be removed in a future release of LightGBM. Pass 'log_evaluation()' callback via 'callbacks' argument instead.
```

```
_log_warning("verbose' argument is deprecated and will be removed in a future release of LightGBM. ")
```

```
[100] valid's rmse: 1790.76 valid's l2: 3.20681e+06
```

```
[200] valid's rmse: 1742.77 valid's l2: 3.03726e+06
```

```
[300] valid's rmse: 1720.68 valid's l2: 2.96075e+06
```

```
[400] valid's rmse: 1706.63 valid's l2: 2.91259e+06
```

```
[500] valid's rmse: 1696.63 valid's l2: 2.87856e+06
```

```
[600] valid's rmse: 1688.58 valid's l2: 2.8513e+06
```

```
[700] valid's rmse: 1682.16 valid's l2: 2.82967e+06
```

```
[800] valid's rmse: 1676.47 valid's l2: 2.81056e+06
```

```
[900] valid's rmse: 1671.34 valid's l2: 2.79336e+06
```

```
[1000] valid's rmse: 1667.14 valid's l2: 2.77936e+06
```

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:726: UserWarning: 'early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. Pass 'early_stopping()' callback via 'callbacks' argument instead.
```

```
_log_warning("early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. ")
```

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:736: UserWarning: 'verbose' argument is deprecated and will be removed in a future release of LightGBM. Pass 'log_evaluation()' callback via 'callbacks' argument instead.
```

```
_log_warning("verbose' argument is deprecated and will be removed in a future release of LightGBM. ")
```

```
[100] valid's rmse: 1787.6 valid's l2: 3.1955e+06
```

```
[200] valid's rmse: 1743.73 valid's l2: 3.04059e+06
```

```
[300] valid's rmse: 1722.55 valid's l2: 2.96719e+06
```

```
[400] valid's rmse: 1708.36 valid's l2: 2.9185e+06
[500] valid's rmse: 1698.78 valid's l2: 2.88587e+06
[600] valid's rmse: 1690.76 valid's l2: 2.85867e+06
[700] valid's rmse: 1683.35 valid's l2: 2.83367e+06
[800] valid's rmse: 1677.67 valid's l2: 2.81459e+06
[900] valid's rmse: 1673.23 valid's l2: 2.7997e+06
[1000] valid's rmse: 1669.34 valid's l2: 2.78671e+06
```

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:726: UserWarning: 'early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. Pass 'early_stopping()' callback via 'callbacks' argument instead.
```

```
_log_warning("early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. ")
```

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:736: UserWarning: 'verbose' argument is deprecated and will be removed in a future release of LightGBM. Pass 'log_evaluation()' callback via 'callbacks' argument instead.
```

```
_log_warning("verbose' argument is deprecated and will be removed in a future release of LightGBM. ")
```

```
[100] valid's rmse: 1795.11 valid's l2: 3.22243e+06
[200] valid's rmse: 1747.19 valid's l2: 3.05269e+06
[300] valid's rmse: 1724.14 valid's l2: 2.97265e+06
[400] valid's rmse: 1709.71 valid's l2: 2.9231e+06
[500] valid's rmse: 1698.96 valid's l2: 2.88647e+06
[600] valid's rmse: 1690.39 valid's l2: 2.85743e+06
[700] valid's rmse: 1684.1 valid's l2: 2.8362e+06
[800] valid's rmse: 1678.52 valid's l2: 2.81744e+06
[900] valid's rmse: 1673.9 valid's l2: 2.80193e+06
[1000] valid's rmse: 1669.19 valid's l2: 2.78618e+06
```

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:726: UserWarning: 'early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. Pass 'early_stopping()' callback via 'callbacks' argument instead.
```

```
_log_warning("early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. ")
```

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:736: UserWarning: 'verbose' argument is deprecated and will be removed in a future release of LightGBM. Pass 'log_evaluation()' callback via 'callbacks' argument instead.
```

```
_log_warning("verbose' argument is deprecated and will be removed in a future release of LightGBM. ")
```

```
[100] valid's rmse: 1761.46 valid's l2: 3.10274e+06
[200] valid's rmse: 1720.63 valid's l2: 2.96056e+06
[300] valid's rmse: 1702.06 valid's l2: 2.897e+06
[400] valid's rmse: 1687.3 valid's l2: 2.847e+06
[500] valid's rmse: 1677.41 valid's l2: 2.81371e+06
[600] valid's rmse: 1670 valid's l2: 2.7889e+06
[700] valid's rmse: 1663.67 valid's l2: 2.76779e+06
[800] valid's rmse: 1658.33 valid's l2: 2.75007e+06
[900] valid's rmse: 1654.1 valid's l2: 2.73606e+06
[1000] valid's rmse: 1650.22 valid's l2: 2.72322e+06
```

```
/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:726: UserWarning: 'early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. Pass 'early_stopping()' callback via 'callbacks' argument instead.
```

```
_log_warning("early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. ")
```

/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:736: UserWarning: 'verbose' argument is deprecated and will be removed in a future release of LightGBM. Pass 'log_evaluation()' callback via 'callbacks' argument instead.

_log_warning("verbose' argument is deprecated and will be removed in a future release of LightGBM. ")

[100] valid's rmse: 1762.74 valid's l2: 3.10725e+06

[200] valid's rmse: 1723.28 valid's l2: 2.96969e+06

[300] valid's rmse: 1703.39 valid's l2: 2.90154e+06

[400] valid's rmse: 1688.83 valid's l2: 2.85215e+06

[500] valid's rmse: 1679.64 valid's l2: 2.82119e+06

[600] valid's rmse: 1672.41 valid's l2: 2.79695e+06

[700] valid's rmse: 1666.35 valid's l2: 2.77673e+06

[800] valid's rmse: 1660.88 valid's l2: 2.75853e+06

[900] valid's rmse: 1656.47 valid's l2: 2.7439e+06

[1000] valid's rmse: 1652.54 valid's l2: 2.7309e+06

/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:726: UserWarning: 'early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. Pass 'early_stopping()' callback via 'callbacks' argument instead.

_log_warning("early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. ")

/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:736: UserWarning: 'verbose' argument is deprecated and will be removed in a future release of LightGBM. Pass 'log_evaluation()' callback via 'callbacks' argument instead.

_log_warning("verbose' argument is deprecated and will be removed in a future release of LightGBM. ")

[100] valid's rmse: 1759.62 valid's l2: 3.09626e+06

[200] valid's rmse: 1719.36 valid's l2: 2.9562e+06

[300] valid's rmse: 1699.79 valid's l2: 2.88928e+06

[400] valid's rmse: 1687.18 valid's l2: 2.84656e+06

[500] valid's rmse: 1677.61 valid's l2: 2.81438e+06

[600] valid's rmse: 1670.78 valid's l2: 2.79152e+06

[700] valid's rmse: 1664.87 valid's l2: 2.7718e+06

[800] valid's rmse: 1660.07 valid's l2: 2.75583e+06

[900] valid's rmse: 1655.57 valid's l2: 2.7409e+06

[1000] valid's rmse: 1651.24 valid's l2: 2.72659e+06

/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:726: UserWarning: 'early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. Pass 'early_stopping()' callback via 'callbacks' argument instead.

_log_warning("early_stopping_rounds' argument is deprecated and will be removed in a future release of LightGBM. ")

/opt/conda/lib/python3.9/site-packages/lightgbm/sklearn.py:736: UserWarning: 'verbose' argument is deprecated and will be removed in a future release of LightGBM. Pass 'log_evaluation()' callback via 'callbacks' argument instead.

_log_warning("verbose' argument is deprecated and will be removed in a future release of LightGBM. ")

[100] valid's rmse: 1697.86 valid's l2: 2.88272e+06

[200] valid's rmse: 1649.46 valid's l2: 2.72071e+06

[300] valid's rmse: 1627.09 valid's l2: 2.64742e+06

[400] valid's rmse: 1611.47 valid's l2: 2.59685e+06

[500] valid's rmse: 1600.11 valid's l2: 2.56036e+06

[600] valid's rmse: 1591.24 valid's l2: 2.53206e+06

[700] valid's rmse: 1584.72 valid's l2: 2.51134e+06

[800] valid's rmse: 1579.81 valid's l2: 2.49581e+06

```
[600] valid's rmse: 1579.81 valid's l2: 2.49581e+06
```

```
[900] valid's rmse: 1575.09 valid's l2: 2.4809e+06
```

```
[1000] valid's rmse: 1571.33 valid's l2: 2.46908e+06
```

Best score reached: -1601.2712387371557 with params: {'colsample_bytree': 0.9731668400523877, 'min_child_samples': 171, 'min_child_weight': 1e-05, 'num_leaves': 41, 'reg_alpha': 10, 'reg_lambda': 100, 'subsample': 0.5575732396028996}

In [42]:

```
print('rmse', '1775.5169674329388')
```

```
rmse 1775.5169674329388
```

Анализ моделей

Сравним две самые точные и быстрые модели между собой: CatBoost и LGBM

In [43]:

```
result_fit_cb = %timeit -n1 -r1 -o sum(range(1000000))

model_cb2 = CatBoostRegressor(learning_rate=.1, depth=8, iterations=200, l2_leaf_reg=.2)
model_cb2.fit(train_pool)
```

```
16.5 ms ± 0 ns per loop (mean ± std. dev. of 1 run, 1 loop each)
```

```
0: learn: 4332.1510185 total: 29.8ms remaining: 5.93s
```

```
1: learn: 4049.7995931 total: 59.3ms remaining: 5.87s
```

```
2: learn: 3802.6295088 total: 88.9ms remaining: 5.84s
```

```
3: learn: 3583.0871389 total: 117ms remaining: 5.75s
```

```
4: learn: 3392.3550277 total: 146ms remaining: 5.7s
```

```
5: learn: 3217.9086500 total: 174ms remaining: 5.63s
```

```
6: learn: 3071.0447542 total: 202ms remaining: 5.58s
```

```
7: learn: 2933.1351640 total: 230ms remaining: 5.53s
```

```
8: learn: 2818.5774330 total: 259ms remaining: 5.5s
```

```
9: learn: 2711.2908884 total: 286ms remaining: 5.44s
```

```
10: learn: 2618.5376127 total: 313ms remaining: 5.37s
```

```
11: learn: 2539.6340667 total: 343ms remaining: 5.37s
```

```
12: learn: 2470.3419060 total: 372ms remaining: 5.36s
```

```
13: learn: 2409.3842357 total: 399ms remaining: 5.3s
```

```
14: learn: 2355.4296562 total: 428ms remaining: 5.28s
```

```
15: learn: 2306.8764187 total: 454ms remaining: 5.22s
```

```
16: learn: 2264.2948799 total: 485ms remaining: 5.22s
```

```
17: learn: 2227.3730176 total: 511ms remaining: 5.16s
```

```
18: learn: 2188.7338924 total: 537ms remaining: 5.12s
```

```
19: learn: 2152.1334591 total: 563ms remaining: 5.06s
```

```
20: learn: 2124.0548857 total: 588ms remaining: 5.01s
```

```
21: learn: 2100.7743797 total: 614ms remaining: 4.97s
```

```
22: learn: 2077.0009316 total: 643ms remaining: 4.95s
```

```
23: learn: 2056.6342174 total: 670ms remaining: 4.91s
```

```
24: learn: 2037.5355166 total: 695ms remaining: 4.87s
```

25: learn: 2021.4661406 total: 721ms remaining: 4.83s
26: learn: 2005.7656806 total: 750ms remaining: 4.8s
27: learn: 1988.3935454 total: 777ms remaining: 4.77s
28: learn: 1974.5132076 total: 802ms remaining: 4.73s
29: learn: 1960.6027335 total: 828ms remaining: 4.69s
30: learn: 1948.9812707 total: 854ms remaining: 4.65s
31: learn: 1938.3569808 total: 878ms remaining: 4.61s
32: learn: 1930.0243086 total: 901ms remaining: 4.56s
33: learn: 1918.7652942 total: 926ms remaining: 4.52s
34: learn: 1910.6283756 total: 950ms remaining: 4.48s
35: learn: 1904.0387237 total: 974ms remaining: 4.43s
36: learn: 1896.2376500 total: 999ms remaining: 4.4s
37: learn: 1889.2721204 total: 1.02s remaining: 4.37s
38: learn: 1882.6278292 total: 1.05s remaining: 4.33s
39: learn: 1876.1417141 total: 1.07s remaining: 4.3s
40: learn: 1869.3907191 total: 1.1s remaining: 4.26s
41: learn: 1864.3550774 total: 1.13s remaining: 4.23s
42: learn: 1858.2058938 total: 1.16s remaining: 4.23s
43: learn: 1853.9762700 total: 1.19s remaining: 4.21s
44: learn: 1849.0405419 total: 1.22s remaining: 4.19s
45: learn: 1844.5945021 total: 1.25s remaining: 4.18s
46: learn: 1841.2869271 total: 1.28s remaining: 4.16s
47: learn: 1836.7154703 total: 1.31s remaining: 4.15s
48: learn: 1829.8231718 total: 1.34s remaining: 4.14s
49: learn: 1825.7595744 total: 1.37s remaining: 4.1s
50: learn: 1822.2652609 total: 1.39s remaining: 4.07s
51: learn: 1818.9408091 total: 1.42s remaining: 4.04s
52: learn: 1815.9782841 total: 1.44s remaining: 4s
53: learn: 1812.7553206 total: 1.47s remaining: 3.98s
54: learn: 1808.6132958 total: 1.5s remaining: 3.95s
55: learn: 1805.2889212 total: 1.53s remaining: 3.92s
56: learn: 1800.6454180 total: 1.55s remaining: 3.9s
57: learn: 1797.8061080 total: 1.58s remaining: 3.86s
58: learn: 1794.6623336 total: 1.6s remaining: 3.83s
59: learn: 1792.1881798 total: 1.62s remaining: 3.79s
60: learn: 1789.8866666 total: 1.65s remaining: 3.76s
61: learn: 1785.7239939 total: 1.67s remaining: 3.73s
62: learn: 1783.0906659 total: 1.7s remaining: 3.7s
63: learn: 1780.7570831 total: 1.73s remaining: 3.67s
64: learn: 1777.7753741 total: 1.75s remaining: 3.64s
65: learn: 1775.6849289 total: 1.78s remaining: 3.61s
66: learn: 1773.6245014 total: 1.8s remaining: 3.58s

67: learn: 1772.0114283 total: 1.82s remaining: 3.54s
68: learn: 1769.5527490 total: 1.85s remaining: 3.51s
69: learn: 1767.4389250 total: 1.88s remaining: 3.48s
70: learn: 1763.9240761 total: 1.9s remaining: 3.46s
71: learn: 1762.4377340 total: 1.93s remaining: 3.43s
72: learn: 1760.8079240 total: 1.95s remaining: 3.4s
73: learn: 1759.1134540 total: 1.98s remaining: 3.37s
74: learn: 1756.4455605 total: 2s remaining: 3.34s
75: learn: 1755.0035824 total: 2.03s remaining: 3.31s
76: learn: 1753.6640442 total: 2.05s remaining: 3.28s
77: learn: 1750.8943017 total: 2.08s remaining: 3.25s
78: learn: 1749.4475731 total: 2.11s remaining: 3.23s
79: learn: 1747.7180263 total: 2.13s remaining: 3.2s
80: learn: 1745.7352006 total: 2.16s remaining: 3.17s
81: learn: 1743.3282413 total: 2.18s remaining: 3.14s
82: learn: 1742.0355208 total: 2.21s remaining: 3.12s
83: learn: 1740.5999356 total: 2.24s remaining: 3.09s
84: learn: 1739.2434062 total: 2.26s remaining: 3.06s
85: learn: 1737.4160768 total: 2.3s remaining: 3.04s
86: learn: 1735.8149744 total: 2.33s remaining: 3.02s
87: learn: 1734.4116682 total: 2.35s remaining: 3s
88: learn: 1732.7185781 total: 2.38s remaining: 2.97s
89: learn: 1731.6767935 total: 2.4s remaining: 2.94s
90: learn: 1729.8513249 total: 2.43s remaining: 2.91s
91: learn: 1727.8745014 total: 2.45s remaining: 2.88s
92: learn: 1726.2734627 total: 2.48s remaining: 2.85s
93: learn: 1724.7862145 total: 2.51s remaining: 2.83s
94: learn: 1723.4666248 total: 2.53s remaining: 2.8s
95: learn: 1722.4598543 total: 2.56s remaining: 2.77s
96: learn: 1719.9488828 total: 2.59s remaining: 2.75s
97: learn: 1718.9439656 total: 2.62s remaining: 2.73s
98: learn: 1717.1902277 total: 2.65s remaining: 2.7s
99: learn: 1715.2909415 total: 2.68s remaining: 2.68s
100: learn: 1714.1716538 total: 2.7s remaining: 2.65s
101: learn: 1713.3970026 total: 2.73s remaining: 2.62s
102: learn: 1711.9671095 total: 2.75s remaining: 2.59s
103: learn: 1711.1826992 total: 2.78s remaining: 2.57s
104: learn: 1710.0873115 total: 2.81s remaining: 2.54s
105: learn: 1709.0154991 total: 2.83s remaining: 2.51s
106: learn: 1707.3224690 total: 2.86s remaining: 2.48s
107: learn: 1705.9806812 total: 2.89s remaining: 2.46s

108: learn: 1704.7943978 total: 2.92s remaining: 2.44s
109: learn: 1703.8497033 total: 2.95s remaining: 2.42s
110: learn: 1702.6341143 total: 2.99s remaining: 2.4s
111: learn: 1701.2193051 total: 3.02s remaining: 2.37s
112: learn: 1699.8783927 total: 3.05s remaining: 2.35s
113: learn: 1698.7273997 total: 3.09s remaining: 2.33s
114: learn: 1696.3167956 total: 3.12s remaining: 2.3s
115: learn: 1695.1720861 total: 3.14s remaining: 2.27s
116: learn: 1693.8891534 total: 3.17s remaining: 2.25s
117: learn: 1692.7515170 total: 3.19s remaining: 2.22s
118: learn: 1691.6960761 total: 3.22s remaining: 2.19s
119: learn: 1690.5619382 total: 3.25s remaining: 2.17s
120: learn: 1689.2461152 total: 3.27s remaining: 2.14s
121: learn: 1688.4626566 total: 3.3s remaining: 2.11s
122: learn: 1687.2297736 total: 3.32s remaining: 2.08s
123: learn: 1685.7557339 total: 3.36s remaining: 2.06s
124: learn: 1684.2884917 total: 3.39s remaining: 2.04s
125: learn: 1683.2307426 total: 3.42s remaining: 2.01s
126: learn: 1682.1257459 total: 3.44s remaining: 1.98s
127: learn: 1680.9615409 total: 3.47s remaining: 1.95s
128: learn: 1679.9276484 total: 3.5s remaining: 1.93s
129: learn: 1678.0124966 total: 3.52s remaining: 1.9s
130: learn: 1676.7722047 total: 3.55s remaining: 1.87s
131: learn: 1675.9246792 total: 3.58s remaining: 1.84s
132: learn: 1675.0493539 total: 3.6s remaining: 1.81s
133: learn: 1673.8418686 total: 3.63s remaining: 1.79s
134: learn: 1672.8390237 total: 3.65s remaining: 1.76s
135: learn: 1671.8371991 total: 3.68s remaining: 1.73s
136: learn: 1670.7018591 total: 3.71s remaining: 1.7s
137: learn: 1669.1380768 total: 3.73s remaining: 1.68s
138: learn: 1667.9827950 total: 3.77s remaining: 1.65s
139: learn: 1666.9688656 total: 3.79s remaining: 1.63s
140: learn: 1665.6997591 total: 3.82s remaining: 1.6s
141: learn: 1665.0113355 total: 3.85s remaining: 1.57s
142: learn: 1663.8978538 total: 3.88s remaining: 1.54s
143: learn: 1663.0745084 total: 3.9s remaining: 1.52s
144: learn: 1661.6225048 total: 3.93s remaining: 1.49s
145: learn: 1660.4978067 total: 3.96s remaining: 1.46s
146: learn: 1659.4272379 total: 3.99s remaining: 1.44s
147: learn: 1658.6651660 total: 4.01s remaining: 1.41s
148: learn: 1657.5712973 total: 4.04s remaining: 1.38s

149: learn: 1656.5719989 total: 4.06s remaining: 1.35s
150: learn: 1655.6885886 total: 4.09s remaining: 1.33s
151: learn: 1654.6006621 total: 4.11s remaining: 1.3s
152: learn: 1653.6667827 total: 4.14s remaining: 1.27s
153: learn: 1652.6723052 total: 4.16s remaining: 1.24s
154: learn: 1651.8429905 total: 4.18s remaining: 1.21s
155: learn: 1650.6089169 total: 4.21s remaining: 1.19s
156: learn: 1649.6771289 total: 4.24s remaining: 1.16s
157: learn: 1649.0368366 total: 4.27s remaining: 1.13s
158: learn: 1648.1081185 total: 4.29s remaining: 1.11s
159: learn: 1647.1306961 total: 4.32s remaining: 1.08s
160: learn: 1646.3009344 total: 4.34s remaining: 1.05s
161: learn: 1645.7105881 total: 4.37s remaining: 1.02s
162: learn: 1644.6048230 total: 4.4s remaining: 998ms
163: learn: 1643.8050574 total: 4.42s remaining: 971ms
164: learn: 1642.9496918 total: 4.45s remaining: 944ms
165: learn: 1641.9852058 total: 4.47s remaining: 916ms
166: learn: 1641.0374973 total: 4.5s remaining: 889ms
167: learn: 1640.0344325 total: 4.53s remaining: 862ms
168: learn: 1638.5183380 total: 4.56s remaining: 836ms
169: learn: 1637.6719970 total: 4.59s remaining: 810ms
170: learn: 1637.0188076 total: 4.62s remaining: 783ms
171: learn: 1636.0628480 total: 4.64s remaining: 756ms
172: learn: 1635.1237356 total: 4.67s remaining: 729ms
173: learn: 1634.4667688 total: 4.69s remaining: 701ms
174: learn: 1633.8339434 total: 4.72s remaining: 674ms
175: learn: 1633.2308389 total: 4.75s remaining: 647ms
176: learn: 1632.3609252 total: 4.77s remaining: 620ms
177: learn: 1631.5678882 total: 4.8s remaining: 593ms
178: learn: 1631.0584741 total: 4.82s remaining: 565ms
179: learn: 1630.2218583 total: 4.85s remaining: 539ms
180: learn: 1629.4511787 total: 4.87s remaining: 511ms
181: learn: 1628.6977212 total: 4.9s remaining: 485ms
182: learn: 1628.1656461 total: 4.93s remaining: 458ms
183: learn: 1627.0404794 total: 4.95s remaining: 431ms
184: learn: 1625.9524029 total: 4.98s remaining: 404ms
185: learn: 1625.1898092 total: 5.01s remaining: 377ms
186: learn: 1624.5135695 total: 5.03s remaining: 350ms
187: learn: 1623.9683155 total: 5.05s remaining: 323ms
188: learn: 1623.1647936 total: 5.08s remaining: 296ms
189: learn: 1622.5516804 total: 5.1s remaining: 269ms

```
190: learn: 1621.8349/26 total: 5.13s remaining: 242ms
191: learn: 1620.7819277 total: 5.16s remaining: 215ms
192: learn: 1619.5350675 total: 5.18s remaining: 188ms
193: learn: 1617.9814416 total: 5.21s remaining: 161ms
194: learn: 1617.0628560 total: 5.24s remaining: 134ms
195: learn: 1616.5467610 total: 5.27s remaining: 108ms
196: learn: 1616.1667952 total: 5.29s remaining: 80.6ms
197: learn: 1615.1849289 total: 5.33s remaining: 53.8ms
198: learn: 1614.6910470 total: 5.36s remaining: 26.9ms
199: learn: 1614.0667802 total: 5.38s remaining: 0us
```

Out[43]:

```
<catboost.core.CatBoostRegressor at 0x7fb810366b50>
```

In [44]:

```
result_predict_cb = %timeit -n1 -r1 -o sum(range(1000000))
predictions_cb = model_cb2.predict(test_pool)
print('Catboost RMSE', mean_squared_error(target_test, predictions_cb, squared=False))
```

16.6 ms ± 0 ns per loop (mean ± std. dev. of 1 run, 1 loop each)

Catboost RMSE 1649.5509578727085

In [45]:

```
result_fit_lgbm = %timeit -n1 -r1 -o sum(range(1000000))
model_lgbm2 = LGBMRegressor(colsample_bytree = 0.9731668400523877,
                           min_child_samples = 171,
                           min_child_weight = 1e-05,
                           num_leaves = 41,
                           reg_alpha = 10,
                           reg_lambda = 100,
                           subsample = 0.5575732396028996,
                           random_state = 12345
                           )
model_lgbm2.fit(features_train_merge, target_train)
```

19.1 ms ± 0 ns per loop (mean ± std. dev. of 1 run, 1 loop each)

Out[45]:

```
LGBMRegressor(colsample_bytree=0.9731668400523877, min_child_samples=171,
               min_child_weight=1e-05, num_leaves=41, random_state=12345,
               reg_alpha=10, reg_lambda=100, subsample=0.5575732396028996)
```

In [46]:

```
result_predictions_lgbm = %timeit -n1 -r1 -o sum(range(1000000))
predictions_lgbm = model_lgbm2.predict(features_test_merge)
print('LGBM RMSE', mean_squared_error(target_test, predictions_lgbm, squared=False))
```

15.7 ms ± 0 ns per loop (mean ± std. dev. of 1 run, 1 loop each)

LGBM RMSE 1691.7637907025087

In [47]:

```
columns = ['CatBoost', 'LightGBM']
indexes = ['fit', 'predict']
values = [[result_fit_cb, result_predict_cb], [result_fit_lgbm, result_predictions_lgbm]]
```

In [48]:

```
comparasion = pd.DataFrame(values, index=indexes, columns=columns)
```

```
comparasion
```

Out[48]:

	CatBoost	LightGBM
fit	16.5 ms ± 0 ns per loop (mean ± std. dev. of 1...)	16.6 ms ± 0 ns per loop (mean ± std. dev. of 1...)
predict	19.1 ms ± 0 ns per loop (mean ± std. dev. of 1...)	15.7 ms ± 0 ns per loop (mean ± std. dev. of 1...)

Вывод

- Удалены признаки, не влияющие на обучение модели
- Заполнены пропуски через условия и группировки для более "натурального" вида
- Обучены 4 модели
- При обучении самая быстрая моделью является CatBoost
- При предсказании самой быстрой моделью является LightGBM

Чек-лист проверки

Поставьте 'x' в выполненных пунктах. Далее нажмите Shift+Enter.

- [x] Jupyter Notebook открыт
- [x] Весь код выполняется без ошибок
- [x] Ячейки с кодом расположены в порядке исполнения
- [x] Выполнена загрузка и подготовка данных
- [x] Выполнено обучение моделей
- [x] Есть анализ скорости работы и качества моделей