In [1]:
```
import pandas as pd
import seaborn as sns
sns.set(color_codes=True)
```

In [2]:
```
from matplotlib import pyplot as plt
```

In [3]:
```
eye = pd.read_csv('test2.csv')
```

In [4]:
```
eye.head()
```

Out[4]:

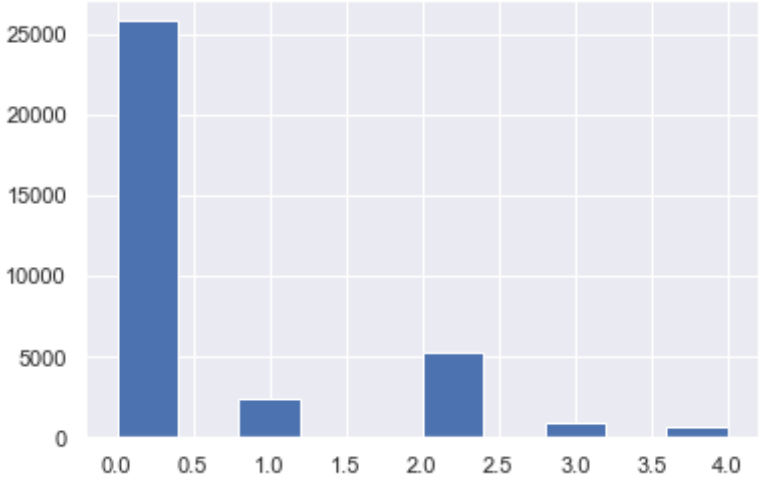
	Unnamed: 0	Unnamed: 0.1	image	level
0	0	0	10_left	0
1	1	1	10_right	0
2	2	2	13_left	0
3	3	3	13_right	0
4	4	4	15_left	1

In [5]:
```
eye.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 35108 entries, 0 to 35107
Data columns (total 4 columns):
 #   Column        Non-Null Count  Dtype 
---  ------        --------------  ----- 
 0   Unnamed: 0    35108 non-null  int64 
 1   Unnamed: 0.1  35108 non-null  int64 
 2   image         35108 non-null  object
 3   level         35108 non-null  int64 
dtypes: int64(3), object(1)
memory usage: 1.1+ MB
```

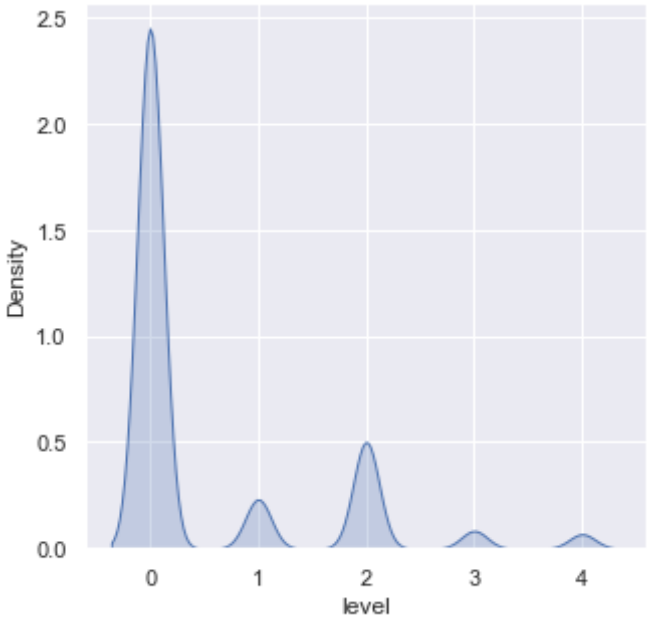
In [7]:
```
plt.hist(eye['level'])
```

Out[7]:
```
(array([25802.,     0.,  2438.,     0.,     0.,  5288.,     0.,   872.,
            0.,   708.]),
 array([0. , 0.4, 0.8, 1.2, 1.6, 2. , 2.4, 2.8, 3.2, 3.6, 4. ]),
 <BarContainer object of 10 artists>)
```



In [9]:
```
sns.set(rc={'figure.figsize':(5,5)})
sns.kdeplot(eye['level'],shade=True)
```

Out[9]:
```
<AxesSubplot:xlabel='level', ylabel='Density'>
```

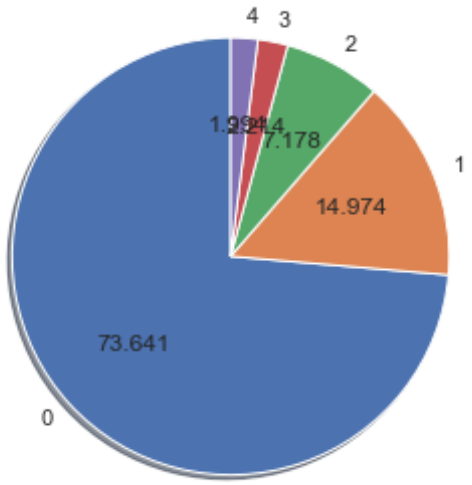


In [12]:
```
eye1=eye.sample(frac=0.35)
```

In [13]:
```
plt.figure(figsize=(5,5))
plt.pie(eye1['level'].value_counts(),startangle=90,autopct='%.3f',
        labels=['0','1','2','3','4'],shadow=True)
```

Out[13]:
```
([<matplotlib.patches.Wedge at 0x26646c93fd0>,
  <matplotlib.patches.Wedge at 0x26646c9f940>,
  <matplotlib.patches.Wedge at 0x26646caf250>,
  <matplotlib.patches.Wedge at 0x26646cafb20>,
  <matplotlib.patches.Wedge at 0x26646cbd430>],
 [Text(-0.8103081082884328, -0.7439091138318051, '0'),
  Text(1.0194662797571412, 0.4131446531641604, '1'),
  Text(0.5175442007946938, 0.9706430859094304, '2'),
  Text(0.21294431653244328, 1.079191696621379, '3'),
  Text(0.06885643501648304, 1.097842789909749, '4')],
 [Text(-0.44198624088459965, -0.4057686075446209, '73.641'),
  Text(0.5560725162311679, 0.2253516289986329, '14.974'),
  Text(0.28229683679710565, 0.5294416832233256, '7.178'),
```

```
Text(0.11615144538133268, 0.588650016338934, '2.214'),
Text(0.0375580554635362, 0.5988233399507721, '1.994')])
```



In [ ]: