At the center point ω and ν would be (0,0).

$$\therefore F(0,0) = \sum_{x=-\infty}^{\infty} \sum_{y=-\infty}^{\infty} f(x,y)$$

Fourier transformation will contain everything in the spacial domain. The plot being in the spacial domain would thus have a maxima i.e. we see a bright dot.