The Probability of aringle bit falling Within 40%, area is $\frac{40}{100} = 0.4$ Probability of all 5 bits within 40%filled section is $\left(\frac{40}{100}\right)^5 = \left(0.4\right)^5$ $= \left(0.4\right) \times \left(0.4\right) \times \left(0.4\right) \times \left(0.4\right) \times \left(0.4\right)$ $\approx \left[0.01024\right]$

After simulating in ett, the probability of five bits in 40% area is \$20.01022] anound

so, simulation results (0.01022) is close to calculation result (20.01024).