q-Metric	**Data**	**Stat**	**Formula (Eq. #)**
max-min normalized $\boldsymbol{L_1}$ (**Eq. 58**)	$\mathcal{N}(0,1)$	mean	$\frac{p}{\sqrt{\pi}\mu^{(1)}_{\max}(m)}$ (**101**) where $\mu^{(1)}_{\max}(m) = \frac{\log(\log(2))}{\Phi^{-1}\left(\frac{1}{m}\right)} - \Phi^{-1}\left(\frac{1}{m}\right)$
		variance	$\frac{12p(\pi-2)\log(m)}{\pi\left(\pi^2+24\left[\mu^{(1)}_{\max}(m)\right]^2\log(m)\right)}$ (**102**) where $\mu^{(1)}_{\max}(m) = \frac{\log(\log(2))}{\Phi^{-1}\left(\frac{1}{m}\right)} - \Phi^{-1}\left(\frac{1}{m}\right)$
	$\mathcal{U}(0,1)$	mean	$\frac{(m+1)p}{3(m-1)}$ (**103**)
		variance	$\frac{(m+2)(m+1)^2p}{18(m^3-m+2)}$ (**104**)
max-min normalized $\boldsymbol{L_2}$ (**Eq. 58**)	$\mathcal{N}(0,1)$	mean	$\frac{\sqrt{2p-1}}{2\mu^{(1)}_{\max}(m)}$ (**105**) where $\mu^{(1)}_{\max}(m) = \frac{\log(\log(2))}{\Phi^{-1}\left(\frac{1}{m}\right)} - \Phi^{-1}\left(\frac{1}{m}\right)$
		variance	$\frac{6\log(m)}{\pi^2+24\left[\mu^{(1)}_{\max}(m)\right]^2\log(m)}$ (**106**) where $\mu^{(1)}_{\max}(m) = \frac{\log(\log(2))}{\Phi^{-1}\left(\frac{1}{m}\right)} - \Phi^{-1}\left(\frac{1}{m}\right)$
	$\mathcal{U}(0,1)$	mean	$\sqrt{\frac{p}{6} - \frac{7}{120}\left(\frac{m+1}{m-1}\right)}$ (**107**)
		variance	$\frac{7(m+2)(m+1)^2}{120(m^3-m+2)}$ (**108**)