$$= \frac{1}{\pi} \int_{-\infty}^{\infty} \frac{2\cos^{2}(\frac{\pi}{4})(u)}{(1-(\frac{\pi}{4}u)^{2})^{2}} \frac{2du}{\pi} = \frac{2}{\pi} \int_{-\infty}^{\infty} \frac{2\cos^{2}u}{(1-(\frac{\pi}{4}u)^{2})^{2}} \frac{du}{\pi} = \frac{2}{\pi} \int_{-\infty}^{\infty} \frac{2\cos^{2}u}{(1-(\frac{\pi}{4}u)^{2})^{2}} \frac{du}{\pi} = \frac{2}{\pi} \int_{-\infty}^{\infty} \frac{\cos^{2}u}{(1-(\frac{\pi}{4}u)^{2})^{2}} \frac{du}{\pi} = \frac{2}{\pi} \int_{-\infty}^{\infty} \frac{\cos^{2}u}{(1-(\frac{\pi}{4}u)^{2})^{2}} \frac{du}{\pi} = \frac{2}{\pi} \int_{-\pi}^{\infty} \frac{\cos^{2}u}{(1-(\frac{\pi}{4}u)^{2})^{2}} \frac{du}{\pi} = \frac{2}{\pi} \int_{-\pi}^{\pi} \frac{1}{\pi} \int$$