FORMULA 3.677.1

$$\int_0^{\pi/2} \frac{\sin^2 x\, dx}{\sqrt{1+\sin^2 x}} = \sqrt{2}\mathbf{E}\left(\frac{\sqrt{2}}{2}\right) - \frac{1}{\sqrt{2}}\mathbf{K}\left(\frac{\sqrt{2}}{2}\right)$$