

FORMULA 3.677.2

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