$$p_{x2} = p_{x1} \cos \psi_2 + p_{z1} \sin \psi_2 \, ,$$

$$x_2 = x_1 \left(\cos \psi_2 + \frac{p_{x2}}{p_{z2}} \sin \psi_2 \right) ,$$

$$y_2 = y_1 + \frac{p_{y2}}{p_{z2}} x_1 \sin \psi_2 \, , \tag{100}$$

$$z_2 = z_1 - x_1 \frac{p_2}{p_{z2}} \sin \psi_2 \, ,$$

, where $\psi_2 \equiv \texttt{ANGLE} \times \texttt{E2}$.