$$x = v_x t,$$

$$y = y_0 + v_y t - \frac{1}{2} g t^2$$

$$y = y_0 + \frac{v_y}{v_x}x - \frac{g}{2v_x^2}x^2$$
$$= y_0 + x\tan\lambda - \frac{g}{2v^2\cos^2\lambda}x^2$$