test case : box 45° rotated at fixed v, (L, X), with screen w.

$OS = OX'$ case.

$X/\sqrt{2} \leq A\sqrt{2}$

$\leftarrow$ L, X, v, w given.

$$\frac{a}{w} = \cdot \frac{L/\sqrt{2}}{v + L/\sqrt{2}}$$

$$\frac{A}{w} = \frac{x\sqrt{2} \; X/\sqrt{2}}{v + X/\sqrt{2}}$$