>>>
Landmarks - before update:
Landmark 0

Position: [1000.   0.]
Error ellipse:
Angle = 0.0°
$\sqrt{\lambda_{01t}} = 200.000, \sqrt{\lambda_{02t}} = 261.8$
Landmark 1

Position: [2000.   0.]
Error ellipse:
Angle = 0.0°
$\sqrt{\lambda_{11t}} = 200.000, \sqrt{\lambda_{12t}} = 523.6$
Landmark 2

Position: [707.10678119 707.10678119]
Error ellipse:
Angle = -45.0°
$\sqrt{\lambda_{21t}} = 200.000, \sqrt{\lambda_{22t}} = 261.8$

Landmarks - after update:
Landmark 0

Position: [1000.   0.]
Error ellipse:
Angle = 0.0°
$\sqrt{\lambda'_{01t}} = 200/\sqrt{2}, \sqrt{\lambda'_{02t}} = 261.8/\sqrt{2}$
Landmark 1

Position: [2050.   0.]
Error ellipse:
Angle = 0.0°
$\sqrt{\lambda'_{11t}} = 200/\sqrt{2}, \sqrt{\lambda'_{12t}} = 523.6/\sqrt{2}$
Landmark 2

Position: [707.10678119 707.10678119]
Error ellipse:
Angle = -45.0°
$\sqrt{\lambda_{21t}} = 200.000, \sqrt{\lambda_{22t}} = 261.8$