Left diagram labels:

newGrabPositionInPicCoord
rotCorrInPicCoord
newGribPosition
relative mouse movement
Resulting change in position
origGrabPosInPicCoord
CorrInPicCoord
origGribPosInPicCoord
w
getScaleReference().getEnd()
angle in clock wise direction
Corr. Distance between grab position and scale begin/end

w = (begin-end) to (begin-end)'

Right diagram labels:

newGrabPositionInPicCoord
newGribPosition
rotCorrInPicCoord
relative mouse movement
Resulting change in position
origGrabPosInPicCoord
CorrInPicCoord
origGribPosInPicCoord
w
getScaleReference().getEnd()
angle in clock wise direction
Corr. Distance between grab position and scale begin/end

w = (begin-end) to (begin-end)' , clockwise angle (see *StarPoint.getClockWiseAngle(angle)*)
Clockwise angle:

dot = x1*x2 + y1*y2   # dot product
det = x1*y2 - y1*x2   # determinant
angle = atan2(det, dot) # atan2(y, x) or atan2(sin, cos)

http://stackoverflow.com/questions/14066933/direct-way-of-computing-clockwise-angle-between-2-vectors