

## TOOL DAY PORTLAND ART INSTITUTE



## HYPOTHESIS

- LIGHT SHELVES REDUCE GLARE IN SEWING ROOM 301.
- NOISE LEVELS IN SEWING ROOM 301 WITH ONE WINDOW OPEN AND THE HVAC ON IS UNACCEPTABLE.

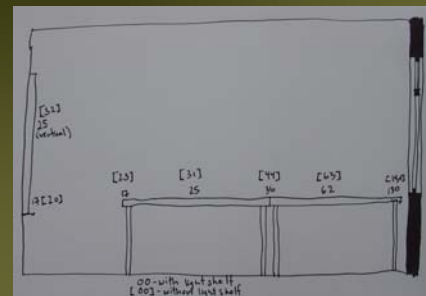
## DATA & ANALYSIS

- SEWING ROOM TRIAL 2: ALL WINDOW SHADES OPEN AND WEST-FACING WINDOWS WITH LIGHT SHELVES.

## DATA & ANALYSIS

- SEWING ROOM TRIAL 3: ALL WINDOW SHADES OPEN AND 1 LIGHT SHELF REMOVED FROM A WEST-FACING WINDOW IN FRONT OF WHERE MEASUREMENTS WERE TAKEN ON THE TABLE.

## Work surface light levels



## DATA & ANALYSIS

- ACCEPTABLE DECIBEL LEVELS:
  - QUIET, UNOCCUPIED OFFICE IS 30 dB.
  - AVERAGE OFFICE IS 50 dB.
- DECIBEL LEVELS RECORDED:
  - WINDOW CLOSED: 65 dB.
  - WINDOW OPEN: 70 dB.

## LESSONS LEARNED / WRAP UP

- THE LIGHT METER MEASUREMENTS SHOW THAT GLARE IS REDUCED BY THE LIGHT SHELVES ON THE WEST-FACING WINDOWS IN SEWING ROOM 301.
- THE ROOM HAS VERY HIGH DECIBEL LEVELS. WITH THE WINDOW OPEN THE DECIBEL LEVEL BECOMES UNACCEPTABLE.

## GROUP PHOTO



## TEAM 6

- Sheila Gates
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- Roger Ota (facilitator)
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- Chris Theis (resource person)