

```

n = 150;
h = Table [
  f = ToString [NumberForm [i, 7, NumberPadding → {"0", ""}]] <> ".jpg ";
  a = Import [f];
  r = PixelValue [a, {270, 121 ;; 380}] // Transpose // First;
  r1 = ListConvolve [{1, 5, 15, 30, 45, 51, 45, 30, 15, 5, 1}, r] // Round;
  m = Nearest [r1, Max [r1] / 2, 1] // First;
  p = Position [r1, m][[1, 1]], {i, n}];
f = Fit [h, {1, x, x ^ 2}, x];
Show [ListPlot [h, PlotStyle → Red], Plot [f, {x, 1, n}]]

```

