```mathematica
In[43]:= opticalParticleTable = Import[
          "/home /david/Desktop/Spring 2016/ASM-GT Data Challenge_Data/Al6061-Optical
            Images /Al 6061
            - Particle Information /*.csv"];
       opticalParticleTable = DeleteDuplicates@Flatten[opticalParticleTable, 1];
       $HistoryLength = 0;


       Table[
         {i,
          N@Interpolation[{{Log@#[[1]], 400}, {Log@#[[2]], 650}},
               Log@#[[3]], InterpolationOrder → 1] &@
            Table[
              Count[#/Min[#], _? (# ≤ i &)] &@Select[opticalParticleTable,
                  StringCount[#[[2]], magnification] == 1 ⋀ StringCount[#[[2]], "50x"] == 1 &][[
                 ;; , 3]], {magnification, {"400", "650", "Unknown"}}]]},
         {i,
          50}]

Out[77]= {{1, 493.826}, {2, 493.826}, {3, 471.68}, {4, 486.238}, {5, 495.647},
       {6, 480.601}, {7, 488.407}, {8, 500.866}, {9, 508.902}, {10, 511.302},
       {11, 514.3}, {12, 513.852}, {13, 512.96}, {14, 510.298}, {15, 509.864},
       {16, 510.975}, {17, 514.187}, {18, 517.795}, {19, 519.301}, {20, 517.426},
       {21, 517.461}, {22, 518.018}, {23, 518.656}, {24, 519.369}, {25, 519.673},
       {26, 519.156}, {27, 520.365}, {28, 521.003}, {29, 520.825}, {30, 519.253},
       {31, 517.017}, {32, 517.017}, {33, 518.908}, {34, 518.819}, {35, 517.046},
       {36, 517.407}, {37, 515.834}, {38, 515.075}, {39, 516.234}, {40, 516.062},
       {41, 517.283}, {42, 516.798}, {43, 516.625}, {44, 516.625}, {45, 515.456},
       {46, 514.565}, {47, 513.942}, {48, 514.466}, {49, 514.713}, {50, 514.282}}
```

In[83]:= `ListPlot[`
`{{1, 493.82603161970667`}, {2, 493.82603161970667`},`
`{3, 471.67989346983904`}, {4, 486.23817818880786`}, {5, 495.6470376581058`},`
`{6, 480.601170437737`}, {7, 488.4073548638182`}, {8, 500.8658712088408`},`
`{9, 508.9019087551898`}, {10, 511.30162655867184`}, {11, 514.2995757066225`},`
`{12, 513.8516619268781`}, {13, 512.9600406590063`}, {14, 510.2979440170603`},`
`{15, 509.8636666469794`}, {16, 510.9753923242527`}, {17, 514.1874776800519`},`
`{18, 517.7946374201094`}, {19, 519.3007642167876`}, {20, 517.4258824351193`},`
`{21, 517.4606225665723`}, {22, 518.0182695419617`}, {23, 518.6563249573634`},`
`{24, 519.3689483698001`}, {25, 519.6729219908427`}, {26, 519.1561370466816`},`
`{27, 520.3645384581757`}, {28, 521.0033734045312`}, {29, 520.8254609928994`},`
`{30, 519.2526728952057`}, {31, 517.0169699919236`}, {32, 517.0167235998354`},`
`{33, 518.9077630299766`}, {34, 518.8193219065863`}, {35, 517.0464499983974`},`
`{36, 517.4073238767326`}, {37, 515.8343734344676`}, {38, 515.0752871001098`},`
`{39, 516.2339382733838`}, {40, 516.0617169664318`}, {41, 517.2828194134217`},`
`{42, 516.7979129852067`}, {43, 516.6251080810595`}, {44, 516.6251080810595`},`
`{45, 515.4563893451111`}, {46, 514.5651661764821`}, {47, 513.9417540899062`},`
`{48, 514.4658108780226`}, {49, 514.7129209256394`}, {50, 514.2822414398443`}},`
`PlotLabel → "Temperature  Estimate  vs. Particle Size",`
`AxesLabel → {"Particle Size (pixel`$^2$`)", "Temperature  (°F)"}]`

Out[83]=



Temperature  Estimate  vs. Particle Size