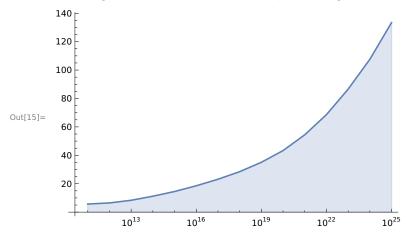
## In[15]:= ListLogLinearPlot[alphaGourdon, Filling → Bottom, Joined → True]



(\* alpha is a tuning factor that balances the computation of the easy special leaves (A + C formulas) and the hard special leaves (D formula). The formula below is used in the file src/util.cpp to calculate a fast alpha factor for the computation of pi(x). \*)

 $\label{eq:log_rate} $$ \ln[17] := NonlinearModelFit[alphaGourdon, a(Log[x])^3 + b(Log[x])^2 + c Log[x] + d, \{a, b, c, d\}, x] $$ Out[17] = FittedModel \[ -167.085 + 15.2351 Log[x] - 0.460441 \llow{1} \llow^2 + 0.00497225 Log[x]^3 \] $$ $$ $$ Out[17] = FittedModel \[ -167.085 + 15.2351 Log[x] - 0.460441 \llow{1} \llow^2 + 0.00497225 Log[x]^3 \] $$ $$ $$ Out[17] = FittedModel \[ -167.085 + 15.2351 Log[x] - 0.460441 \llow{1} \llow - 0.00497225 Log[x]^3 \] $$ $$ $$ Out[17] = FittedModel \[ -167.085 + 15.2351 Log[x] - 0.460441 \llow - 0.00497225 Log[x]^3 \] $$ $$ $$ Out[17] = FittedModel \[ -167.085 + 15.2351 Log[x] - 0.460441 \llow - 0.00497225 Log[x] - 0.0049725$