1.0*((a2 + a3*tanh(a4*((x0 - 1568.5) * 0.000145275)))**(a1 + a5*((x0 - 1568.5) * 0.000145275)))

a1 = $-1.1776^{+0.06(5.1\%)}_{-0.06(5.1\%)}$, a2 = $0.0142497^{+0.00309(21.7\%)}_{-0.00309(21.7\%)}$,
a3 = $0.0404802^{+0.00381(9.41\%)}_{-0.00381(9.41\%)}$, a4 = $2.04204^{+0.165(8.08\%)}_{-0.165(8.08\%)}$,
a5 = $4.93839^{+0.25(5.06\%)}_{-0.25(5.06\%)}$

Candidate #14

χ^2/NDF = 36.1/37, RMSE = 0.02235, R2 = 1.0