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