$$ Temperature(t) = \arctan(-0.0012 t^3 + 0.4 t^2+ 0.616 t + 6120) + 0.65 \sin(0.24 t + 1.23) - 0.27 \cos(0.21 t - 0.17) - \frac{\sin(0.34 t + 0.16)}{1 + 0.03 (t - 370.5)^2} $$

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