Equation 4.2.2-5

$$\dot{Q}_h^{k=2}(T_j) = \begin{cases} \dot{Q}_h^{k=2}(17) + \dfrac{\left[\dot{Q}_h^{k=2}(47) - \dot{Q}_h^{k=2}(17)\right] * (T_j - 17)}{47 - 17}, & if\ T_j \geq 45\ °\mathrm{F} \\ \dot{Q}_h^{k=2}(17) + \dfrac{\left[\dot{Q}_h^{k=2}(35) - \dot{Q}_h^{k=2}(17)\right] * (T_j - 17)}{35 - 17}, & if\ 17\ °\mathrm{F} \leq T_j < 45\ °\mathrm{F} \\ \dot{Q}_h^{k=2}(5) + \dfrac{\left[\dot{Q}_h^{k=2}(17) - \dot{Q}_h^{k=2}(5)\right] * (T_j - 5)}{17 - 5}, & if\ T_j < 17\ °\mathrm{F} \end{cases}$$