I'd expect eq. 26 to be:

$$F_{ij}^{(HLL)} = \begin{cases} F\left(V_L^{(n)}\right) & 0 \le S_L \\ \frac{S_R F\left(V_L^{(n)}\right) - S_L F\left(V_R^{(n)}\right) + S_R S_L (F\left(V_R^{(n)}\right) - F\left(V_L^{(n)}\right))}{S_R - S_L} & S_L \le 0 \le S_R \\ F\left(V_R^{(n)}\right) & S_R \le 0 \end{cases}$$
(26)

Instead of:

$$F_{ij}^{(HLL)} = \begin{cases} F\left(V_L^{(n)}\right) & 0 \le S_L \\ \frac{S_R F\left(V_L^{(n)}\right) - S_L F\left(V_R^{(n)}\right) + S_R S_L (V_R^{(n)} - V_L^{(n)})}{S_R - S_L} & S_L \le 0 \le S_R \\ F\left(V_R^{(n)}\right) & S_R \le 0 \end{cases}$$
(26 original)

This is founded in an subtraction of a vector from a 4×2 Matrix.