F1 and F2 are parameters to characterize the slope of the field at the edges defined as:

$$\texttt{F1} = \mathrm{sgn}(a)\sqrt{a}, \qquad a \equiv 24\left(\frac{I_0^2}{2} - I_1\right),$$

$$\texttt{F2} = I_2 - \frac{I_0^3}{3}$$

$$\text{with } I_n \equiv \int_{-\infty}^{\infty} (s - s0)^n \frac{K_1(s)}{K_{10}} ds\,,$$

where s_0 is the location of the edge where the effective length is defined, and $K_{10} = \texttt{K1/L}$.