$$\lambda(x) = \frac{\sup \{L(p_16^2; x) | (p_16^2) \in \mathbb{R} \times \mathbb{R}^+\}}{\sup \{L(p_16^2; x) | (p_16^2) \in \mathbb{R} \times (0, 60^2)\}} = \begin{cases} 1 & \text{if } \widehat{G}^2 \leq 60^2 \\ \left(\frac{\widehat{G}^2}{60^2}\right)^{-\frac{n}{2}} \exp\left(\left(\frac{1}{60^2} - \frac{1}{\widehat{G}^2}\right)^{\frac{n}{2}} \widehat{G}^2\right), \text{ if } \widehat{G}^2 > 60^2 \end{cases}$$

$$Z(x) = \frac{\sup \{L(p_1 G^1; x) | (p_1 G^1) \in \mathbb{R} x \mathbb{R}^+\}}{\sup \{L(p_1 G^1; x) | (p_1 G^1) \in \mathbb{R} x [G_0, \infty)\}} = \begin{cases} 1 \\ \left(\frac{\widehat{G}^2}{G_0^1}\right)^{-\frac{n}{2}} & \text{exp}\left(\left(\frac{2}{G_0^2} - \frac{7}{\widehat{G}^2}\right) \frac{n}{2} \widehat{G}^2\right), \text{ if } \widehat{G}^2 < G_0^2 \\ = \left(\frac{\widehat{G}^2}{G_0^2} - 1\right) \frac{n}{2} \end{cases}$$