equilibrium exists between the two spans, the friction for 1,000 lbs. must be:

\[
\frac{23488}{2500} = 9.4 \text{ lbs.}
\]

This is the same as was found to correspond with the experiments, and, therefore, our supposition, that each saddle moves 0.1' towards the river, can be considered as correct and also the calculated deflection of guidewire.

In regulating the guidewires for the East River Bridge, it was at first thought sufficient to adjust only the center span, and to rely upon the force of gravity to establish a balancing curve in each land span. But the result showed, that, though the wires were supported on small rollers, the friction was too great to allow a free rendering. A separate adjustment for each span was therefore deemed necessary.

Two guideboards placed on the same level were fastened across the archways in both towers and a level instrument, on a scaffold behind, was so adjusted,