$$
|q,e|_{minK} =
\begin{cases}
|q,e|_{minE},\ if\ q.f \in [e.lf, e.uf]; \\
min \\
\{ \underset{s_q \in S(q.f), s_e \in S(e.lf)}{min} (|q,s_q|_E + M_{s2s}[s_q,s_e] + |s_e,e|_{minE}), \\
\underset{s_q \in S(q.f), s_e \in S(e.uf)}{min} (|q,s_q|_E + M_{s2s}[s_q,s_e] + |s_e,e|_{minE}) \}, \\
otherwise.
\end{cases}
$$