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$\|H\|_1 \approx \Omega(2^{\frac{d}{2}} \cdot \log^2 n)$ and $\|K\|_1 \approx \Omega(\log^2 n)$. Since $b \leq \sqrt{n}$, we have $\|S\|_1 \leq R \leq 1/b$, $\|S\|_1 \leq R \leq 1/b$, and $\|S\|_1 \leq R \leq 1/b$.

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