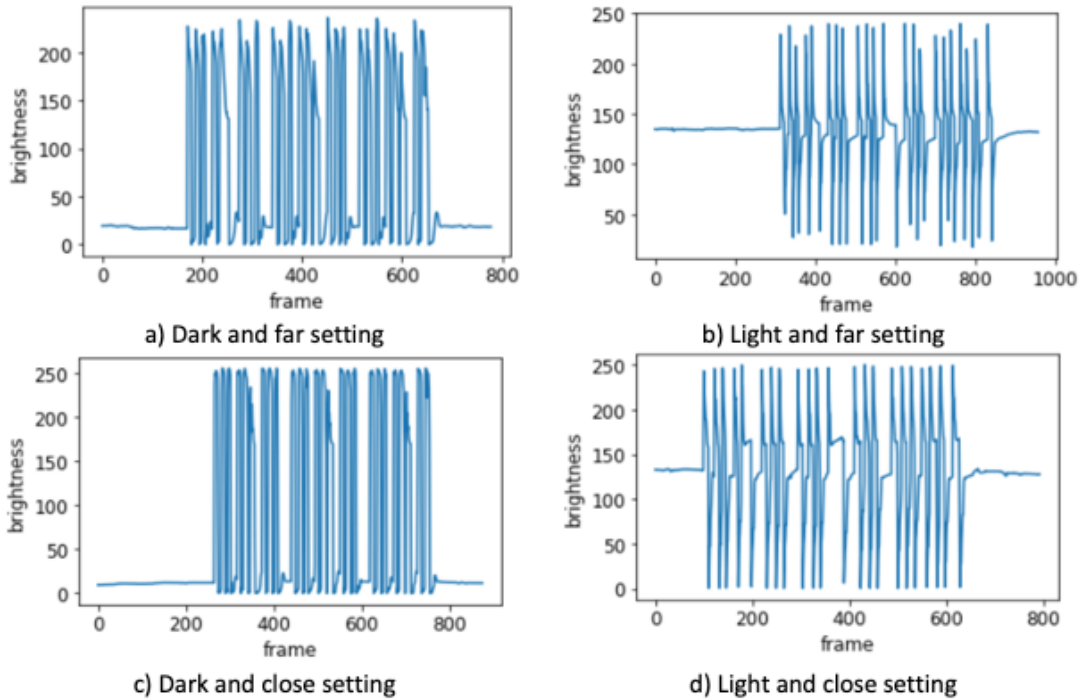


Experiments



The threshold for all test cases is 140. Figure 1 a was recorded in a dark and far setting. We got a “Not a real letter” error. The decrypted plaintext was empty. Figure 1 b was recorded in a light and far setting. The decrypted plaintext was “SAS ST S SR”. Figure 1 c was recorded in a dark and close setting. The decrypted plaintext is “SWR SWR SW.” The Figure 1 d was recorded in a light and close setting. The decrypted plaintext is “SAS STS SS.”

Evaluation

We design two evaluation metrics to compare different test cases. The first metric is the number of words guessed. We call it WORDS_GUESSED. The second metric is the length of the longest common subsequence after removing space characters between guessed words, namely LONGEST_SUBSTR_NOSPACE.

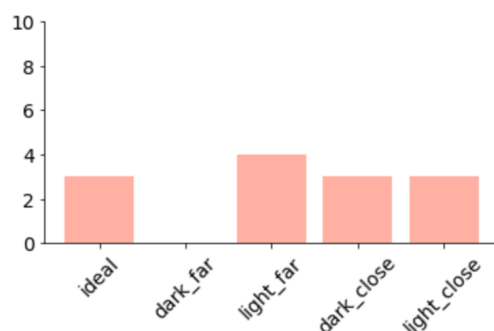


Figure 1: WORDS_GUESSED when the threshold is 140. The plaintexts are from left to right: "SOS SOS SOS", "", "SAS ST S SR", "SWR SWR SW". "SAS STS SS".

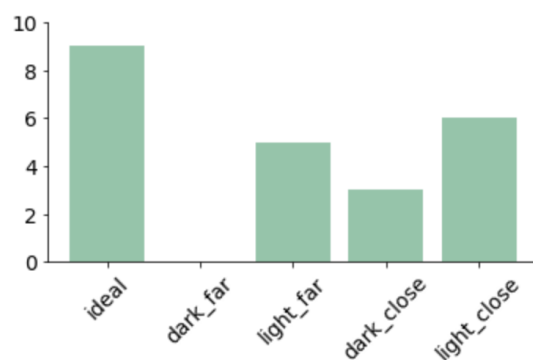


Figure 2 : LONGEST_SUBSTR_NOSPACE when the threshold is 140. The preprocessed plaintexts are left to right: "SOSSOSSOS", "", "SASSTSSR", "SWRSWRSW". "SASSTSSS".