Formulas of Bucketsort and Radixsort

$$\text{Efficiency}_{BS} = O\left(n + \sum_{i=0}^{n-1} O(n_i^2)\right)$$

Due to the fact that all ambient values were recorded in a numerical format, a Radixsort algorithm was applied to sort the values in each "Bucket". Its efficiency O is

$$\text{Efficiency}_{RS} = O(m*n) \mid m=5$$

For the whole sortation, an overall efficiency O of

$$\text{Efficiency} = O\left(n + \sum_{i=0}^{n-1} O(5n)\right)$$

can be achieved.