The NCIC FPC

The NCIC FPC contains 20 characters, each pair of characters represents one digit beginning with the right thumb as the No. 1 digit and ending with the left little finger as the No. 10 digit; the left thumb is then No. 6. For every consecutive pair of characters, one code can be assigned out of a possible 114 alphanumeric codes. This means that there are actually only 10 individual segments for the NCIC FPC with each one maintaining a pair of the 20 characters to represent an individual code. To determine the total number of NCIC FPC combinations multiply the number of possibilities (114) to the power of the number of segments (10).

That is 114 to the 10^{th} power.

114^{10} = 114*114*114*114*114*114*114*114*114*114 = 3.7072213e+20 = 370,722,131,411,856,638,976

This is how it reads in text:

three hundred seventy quintillion, seven hundred twenty-two quadrillion, one hundred thirty-one trillion, four hundred eleven billion, eight hundred fifty-six million, six hundred thirty-eight thousand, nine hundred seventy-six

To calculate the file location for the NCIC FPC insert this address into the Google Chrome browser: http://www.dermatoglyphics.com/formula.xlsx