The table below shows the output of the control unit for the first four instructions of the instruction set. Complete the table for the entire set of instructions.

Here are a few hints for finishing the table:

- The instructions `SUBA addr`, `ANDA addr`, `ORAA addr`, and `CMPA addr` are the same as `LDAA addr`, except for the `ALU_CTL`, `Z_L` and `C_L` lines in State C3.

- The instructions `JMP addr` is similar to `LDAA addr`, except that in State C3, you need to load the data out of the memory into the PC register rather than into the ACCA register. Also, C and Z do not change.