```c
/* ***************************************************************** */
/* File name:      lut_adc_3v3.c                              */
/* File description: This file cotains the Lookup Table that correlates */
/*              sensor output and the Temperature in celcius       */
/* Author name:    julioalvesMS & IagoAF & dloubach              */
/* Creation date:  07jun2018                              */
/* Revision date:  21jun2018                              */
/* ***************************************************************** */

/* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
 *           TABELA PARA USO DO SENSOR DE TEMPERATURA         *
 *           modificado para o range 0 - 3v3            *
 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * */

extern const unsigned char tabela_temp[256] = {
    0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,              //15
    0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1,              //31
    1, 1, 2, 2, 3, 3, 3, 3, 4, 4, 5, 5, 6, 6, 6, 6,              //47
    7, 7, 8, 8, 8, 8, 9, 9, 10, 10, 10, 10, 11, 11, 12, 12,         //63
    12, 12, 13, 13, 14, 14, 15, 15, 15, 15, 16, 16, 16, 17, 17, 17,   //79
    17, 18, 18, 19, 19, 19, 19, 20, 20, 21, 21, 21, 21, 22, 22, 23,   //95
    23, 24, 24, 24, 24, 25, 25, 26, 26, 26, 26, 27, 27, 28, 28, 28,   //111
    28, 29, 29, 30, 30, 30, 30, 31, 31, 32, 32, 32, 32, 33, 33, 34,   //127
    34, 35, 35, 35, 35, 36, 36, 37, 37, 37, 37, 38, 38, 39, 39, 39,   //143
    39, 40, 40, 41, 41, 41, 41, 42, 42, 43, 43, 44, 44, 44, 44, 45,   //159
    45, 46, 46, 46, 46, 47, 47, 48, 48, 48, 48, 49, 49, 50, 50, 50,   //175
    50, 51, 51, 52, 52, 53, 53, 53, 53, 54, 54, 55, 55, 55, 55, 56,   //191
    56, 57, 57, 57, 57, 58, 58, 59, 59, 59, 59, 60, 60, 61, 61, 62,   //207
    62, 62, 62, 63, 63, 64, 64, 64, 64, 65, 65, 66, 66, 66, 66, 67,   //223
    67, 68, 68, 68, 68, 69, 69, 70, 70, 71, 71, 71, 71, 72, 72, 72,   //239
    73, 73, 73, 73, 74, 74, 75, 75, 75, 75, 76, 76, 77, 77, 77, 77    //255
};
```