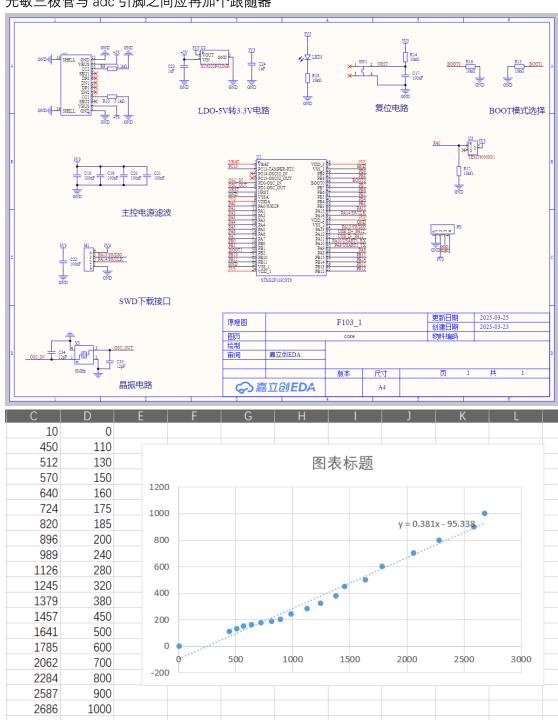
## 光敏三极管与 adc 引脚之间应再加个跟随器



```
#include "stm32f10x.h"
                                                                        // Device header
 3
      void AD_Init(void)
 4 □ {
            RCC_APB2PeriphClockCmd(RCC_APB2Periph_ADC1, ENABLE);
RCC_APB2PeriphClockCmd(RCC_APB2Periph_GPIOA, ENABLE);
 5
 6
 7
 8
            RCC_ADCCLKConfig(RCC_PCLK2_Div6);
 9
10
            GPIO_InitTypeDef GPIO_InitStructure;
11
            GPIO InitStructure. GPIO Mode = GPIO Mode AIN;
            GPIO_InitStructure.GPIO_Pin = GPIO_Pin_0;
GPIO_InitStructure.GPIO_Speed = GPIO_Speed_50MHz;
GPIO_Init(GPIOA, &GPIO_InitStructure);
12
13
14
15
            ADC_RegularChannelConfig(ADC1, ADC_Channel_0, 1, ADC_SampleTime_55Cycles5);
16
17
            ADC_InitTypeDef ADC_InitStructure;
18
            ADC_InitTypeDef ADC_InitStructure;
ADC_InitStructure.ADC_Mode = ADC_Mode_Independent;
ADC_InitStructure.ADC_DataAlign = ADC_DataAlign_Right;
ADC_InitStructure.ADC_ExternalTrigConv = ADC_ExternalTrigConv_None;
ADC_InitStructure.ADC_ContinuousConvMode = DISABLE;
ADC_InitStructure.ADC_ScanConvMode = DISABLE;
ADC_InitStructure.ADC_NbrOfChannel = 1;
ADC_Init(ADC1, &ADC_InitStructure);
19
20
21
22
23
24
25
26
27
            ADC_Cmd (ADC1, ENABLE);
28
29
            ADC_ResetCalibration(ADC1);
30
             while (ADC_GetResetCalibrationStatus(ADC1) == SET);
31
             ADC_StartCalibration(ADC1);
32
            while (ADC_GetCalibrationStatus(ADC1) == SET);
33
34
35
     uint16_t AD_GetValue(void)
36 ₽ {
            ADC_SoftwareStartConvCmd(ADC1, ENABLE);
while (ADC_GetFlagStatus(ADC1, ADC_FLAG_EOC) == RESET);
37
38
            return ADC_GetConversionValue(ADC1);
39
40
```