

```
//PWM sinusoidal lookup table for six states
const uint16_t PWM_1[32] = {0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
    0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
    0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
    0, 0};
const uint16_t PWM_2[32] = {5, 30, 54, 83, 107, 131, 160, 184, 208, 236,
    259, 283, 310, 332, 355, 380, 401, 423, 448, 467,
    487, 510, 529, 547, 568, 584, 601, 620, 635, 650,
    666, 680};
const uint16_t PWM_3[32] = {690, 704, 715, 725, 736, 745, 753, 762, 769, 774,
    780, 785, 788, 791, 794, 794, 794, 794, 793, 790,
    787, 784, 779, 773, 767, 759, 751, 744, 733, 723,
    713, 699};
const uint16_t PWM_4[32] = {690, 701, 715, 725, 734, 745, 753, 761, 769, 774,
    779, 785, 788, 791, 794, 794, 795, 794, 793, 791,
    787, 784, 779, 773, 767, 761, 751, 744, 734, 723,
    713, 701};
const uint16_t PWM_5[32] = {687, 674, 661, 644, 629, 614, 594, 578, 561, 540,
    521, 502, 479, 459, 439, 414, 393, 372, 345, 323,
    301, 273, 250, 227, 198, 175, 151, 122, 98, 73,
    44, 20};
const uint16_t PWM_6[32] = {0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
    0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
    0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
    0, 0};
```