	stan prawd			stan po					
down	q_2	q_1	q_0	q_2	q_1	q_0	t_2	t_1	t_0
1	0	0	0	1	1	1	1	1	1
1	0	0	1	0	0	0	0	0	1
1	0	1	0	0	0	1	0	1	1
1	0	1	1	0	1	0	0	0	1
1	1	0	0	0	1	1	1	1	1
1	1	0	1	1	0	0	0	0	1
1	1	1	0	1	0	1	0	1	1
1	1	1	1	1	1	0	0	0	1
0	0	0	0	0	0	1	0	0	1
0	0	0	1	0	1	0	0	1	1
0	0	1	0	0	1	1	0	0	1
0	0	1	1	1	0	0	1	1	1
0	1	0	0	0	0	1	0	0	1
0	1	0	1	1	1	0	0	1	1
0	1	1	0	1	1	1	0	0	1
0	1	1	1	0	0	0	1	1	1

(down = 1 - odliczanie w dół, down = 0 - odliczanie w górę).

t_0:

down q_2 \ $q_1 q_0$	00	01	11	10
00	1	1	1	1
01	1	1	1	1
11	1	1	1	1
10	1	1	1	1

$$t_0 = 1$$

Mapy Karnaugh:

t_1:

down q_2 \ $q_1 q_0$	00	01	11	10
00	0	1	1	0
01	0	1	1	0
11	1	0	0	1
10	1	0	0	1

$$t_1 = down\,\overline{q_0} + \overline{down}\,q_0$$

t_2:

down q_2 \ $q_1 q_0$	00	01	11	10
00	0	0	1	0
01	0	0	1	0
11	1	0	0	0
10	1	0	0	0

$$t_2 = down\,\overline{q_1}\,q_0 + down\,q_1\,q_0$$