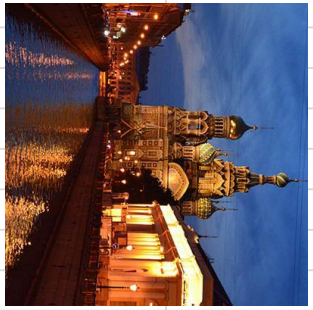
width = 3

90 degrees

source		target		x1, y1 in terms of x, y, and width	
x	y	x1	y1	x1	y1
0	0	2	0	width - 1 - x	y
0	1	2	1		
0	2	2	2		
1	0	1	0		
1	1	1	1		
1	2	1	2		
2	0	0	0		
2	1	0	1		
2	2	0	2		



source				rotated			
	0	1	2	x		0	1	2	x
0	1	2	3		0	7	4	1	
1	4	5	6		1	8	5	2	
2	7	8	9		2	9	6	3	
y					y				

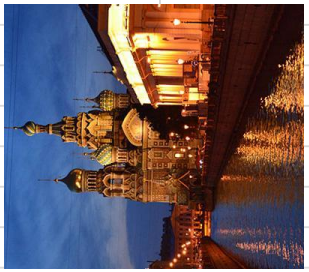
180 degrees

source		target		x1, y1 in terms of x, y, and width	
x	y	x1	y1	x1	y1
0	0	2	2	width - 1 - x	width - 1 - y
0	1	2	1		
0	2	2	0		
1	0	1	2		
1	1	1	1		
1	2	1	0		
2	0	0	2		
2	1	0	1		
2	2	0	0		

source				rotated			
	0	1	2	x		0	1	2	x
0	1	2	3		0	9	8	7	
1	4	5	6		1	6	5	4	
2	7	8	9		2	3	2	1	
y					y				

270 degrees

source		target		x1, y1 in terms of x, y, and width	
x	y	x1	y1	x1	y1
0	0	0	2	x	width - 1 - y
0	1	0	1		
0	2	0	0		
1	0	1	2		
1	1	1	1		
1	2	1	0		
2	0	2	2		
2	1	2	1		



source				rotated			
	0	1	2	x		0	1	2	x
0	1	2	3		0	3	6	9	
1	4	5	6		1	2	5	8	
2	7	8	9		2	1	4	7	
y					y				

	2	2		2	0																		