## **Heuristic Analysis**

## 

Match #	Opponent	AB_Improved Won   Lost		AB_Custom Won   Lost		AB_Custom_2 Won   Lost			
	Dandon		Lost		LOST		LOST		Lost
1	Random	10	0	10	ש	8		8	4
2	MM_Open	10	0	10	0	10	0	10	0
3	MM_Center	10	0	10	0	10	0	10	0
4	MM_Improved	10	0	10	0	10	0	10	0
5	AB_Open	4	6	5	5	6	4	5	5
6	AB_Center	6	4	6	4	9	1	7	3
7	AB_Improved	6	4	7	3	3	7	5	5
	Win Rate:	80.0%		82.9%		80.0%		78.6%	

The first heuristic custom score is a weighted improved score, which return the number of player's moves subtract twice the number of player's moves.

The second heuristic custom score calculates the distance between player's location and center location, and add the numbers of player's move

The third heuristic custom score calculates the distance between player's location and center location, and then add the weighted improved score which the first heuristic function uses.

The result shows that the first heuristic function, which uses the weighted improved score has the highest winning rate.