Performance Analysis:

Median run time of the test(in ms):

Median run time of the test(in ms).						
Function	Design 1	Design 1	Design 2	Design 3	Design 5	Design 5
	(Initial with	(Initial			(Initial with	(Initial
	Polar)	with			Polar)	with
		Cartesian)				Cartesian)
getX()	273	12	258	3	238	3
	Min: 260	Min: 12	Min: 239	Min: 2	Min: 235	Min: 2
	Max: 295	Max: 13	Max: 283	Max: 3	Max: 239	Max: 3
getY()	233	33	230	2	210	2
	Min: 225	Min: 32	Min: 209	Min: 1	Min: 208	Min: 2
	Max: 243	Max: 37	Max: 244	Max: 2	Max: 211	Max: 3
getRho()	3	16	3	2	2	2
	Min: 3	Min: 14	Min: 2	Min: 2	Min: 2	Min: 2
	Max: 3	Max: 18	Max: 3	Max: 3	Max :3	Max: 3
getTheta()	3	1227	3	1138	2	1253
	Min: 3	Min: 1213	Min: 2	Min: 1127	Min: 2	Min: 1230
	Max: 3	Max: 1241	Max: 3	Max: 1157	Max: 3	Max: 1292
getDistance()	890	8	843	3	825	4
	Min: 881	Min: 7	Min: 801	Min: 3	Min: 802	Min: 3
	Max: 904	Max: 8	Max: 869	Max: 4	Max: 852	Max: 4
rotatePoint()	1318	802	1208	801	1253	846
	Min: 1277	Min: 771	Min: 1189	Min: 800	Min: 1207	Min: 808
	Max: 1398	Max: 831	Max: 1233	Max: 802	Max: 1291	Max: 874
Total Run	2721	2098	2545	1949	2531	2110
Time	Min: 2684	Min: 2099	Min: 2387	Min: 1940	Min: 2462	Min: 2056
	Max: 2770	Max: 2120	Max: 2593	Max: 1966	Max: 2567	Max: 2177