

Crank angle θ	rad	相位差 α	$\sin(\theta)$	$\sin(\theta + \alpha)$	κ	x	τ	PVes/mRTc	V/Ves	$\sin \alpha$	a	b	c	d	β	Wi無因次	
0	0	0	1.2566371	0	0.95105652	1	0.2	0.5	0.774510303	0.724472	0.951057	0.475528	1.154508	1.309017	0.951057	1.766667	0.396249
5	0.0872665	1.2566371	0.087156	0.97437006	1	0.2	0.5	0.838696876	0.669237								
10	0.1745329	1.2566371	0.173648	0.99026807	1	0.2	0.5	0.910842663	0.618042								
15	0.2617994	1.2566371	0.258819	0.99862953	1	0.2	0.5	0.991539339	0.571276								
20	0.3490659	1.2566371	0.34202	0.99939083	1	0.2	0.5	1.081138224	0.529295								
25	0.4363323	1.2566371	0.422618	0.99254615	1	0.2	0.5	1.179557798	0.492418								
30	0.5235988	1.2566371	0.5	0.9781476	1	0.2	0.5	1.286020028	0.460926								
35	0.6108652	1.2566371	0.573576	0.95630476	1	0.2	0.5	1.398722975	0.435059								
40	0.6981317	1.2566371	0.642788	0.92718385	1	0.2	0.5	1.514492643	0.415014								
45	0.7853982	1.2566371	0.707107	0.89100652	1	0.2	0.5	1.628514313	0.400943								
50	0.8726646	1.2566371	0.766044	0.8480481	1	0.2	0.5	1.734310032	0.392954								
55	0.9599311	1.2566371	0.819152	0.79863551	1	0.2	0.5	1.824162193	0.391106								
60	1.0471976	1.2566371	0.866025	0.74314483	1	0.2	0.5	1.890113167	0.395415								
65	1.134464	1.2566371	0.906308	0.68199836	1	0.2	0.5	1.925447817	0.405847								
70	1.2217305	1.2566371	0.939693	0.61566148	1	0.2	0.5	1.92625039	0.422323								
75	1.3089969	1.2566371	0.965926	0.54463904	1	0.2	0.5	1.892429311	0.444718								
80	1.3962634	1.2566371	0.984808	0.46947156	1	0.2	0.5	1.827742132	0.47286								
85	1.4835299	1.2566371	0.996195	0.39073113	1	0.2	0.5	1.738808666	0.506537								
90	1.5707963	1.2566371	1	0.30901699	1	0.2	0.5	1.633564738	0.545492								
95	1.6580628	1.2566371	0.996195	0.22495105	1	0.2	0.5	1.519765058	0.589427								
100	1.7453293	1.2566371	0.984808	0.1391731	1	0.2	0.5	1.403957323	0.63801								
105	1.8325957	1.2566371	0.965926	0.05233596	1	0.2	0.5	1.291034128	0.690869								
110	1.9198622	1.2566371	0.939693	-0.0348995	1	0.2	0.5	1.184239486	0.747603								
115	2.0071286	1.2566371	0.906308	-0.12186934	1	0.2	0.5	1.08543037	0.807781								
120	2.0943951	1.2566371	0.866025	-0.20791169	1	0.2	0.5	0.995423928	0.870943								
125	2.1816616	1.2566371	0.819152	-0.2923717	1	0.2	0.5	0.914327115	0.93661								
130	2.268928	1.2566371	0.766044	-0.37460659	1	0.2	0.5	0.841803617	1.004281								
135	2.3561945	1.2566371	0.707107	-0.4539905	1	0.2	0.5	0.777269448	1.073442								
140	2.443461	1.2566371	0.642788	-0.52991926	1	0.2	0.5	0.720026025	1.143566								
145	2.5307274	1.2566371	0.573576	-0.60181502	1	0.2	0.5	0.669345055	1.214119								
150	2.6179939	1.2566371	0.5	-0.66913061	1	0.2	0.5	0.624519132	1.284565								
155	2.7052603	1.2566371	0.422618	-0.7313537	1	0.2	0.5	0.584889295	1.354368								
160	2.7925268	1.2566371	0.34202	-0.78801075	1	0.2	0.5	0.549857837	1.422995								
165	2.8797933	1.2566371	0.258819	-0.83867057	1	0.2	0.5	0.518892108	1.489926								
170	2.9670597	1.2566371	0.173648	-0.88294759	1	0.2	0.5	0.491523122	1.55465								
175	3.0543262	1.2566371	0.087156	-0.92050485	1	0.2	0.5	0.4673414	1.616675								
180	3.1415927	1.2566371	1.22E-16	-0.95105652	1	0.2	0.5	0.445991554	1.675528								
185	3.2288591	1.2566371	-0.08716	-0.97437006	1	0.2	0.5	0.427166519	1.730763								
190	3.3161256	1.2566371	-0.17365	-0.99026807	1	0.2	0.5	0.410601926	1.781958								
195	3.403392	1.2566371	-0.25882	-0.99862953	1	0.2	0.5	0.396070901	1.828724								
200	3.4906585	1.2566371	-0.34202	-0.99939083	1	0.2	0.5	0.383379395	1.870705								
205	3.577925	1.2566371	-0.42262	-0.99254615	1	0.2	0.5	0.372362093	1.907582								
210	3.6651914	1.2566371	-0.5	-0.9781476	1	0.2	0.5	0.362878875	1.939074								
215	3.7524579	1.2566371	-0.57358	-0.95630476	1	0.2	0.5	0.354811809	1.964941								
220	3.8397244	1.2566371	-0.64279	-0.92718385	1	0.2	0.5	0.348062624	1.984986								
225	3.9269908	1.2566371	-0.70711	-0.89100652	1	0.2	0.5	0.342550604	1.999057								
230	4.0142573	1.2566371	-0.76604	-0.8480481	1	0.2	0.5	0.33821088	2.007046								
235	4.1015237	1.2566371	-0.81915	-0.79863551	1	0.2	0.5	0.33499306	2.008894								
240	4.1887902	1.2566371	-0.86603	-0.74314483	1	0.2	0.5	0.332860174	2.004585								
245	4.2760567	1.2566371	-0.90631	-0.68199836	1	0.2	0.5	0.331787906	1.994153								
250	4.3633231	1.2566371	-0.93969	-0.61566148	1	0.2	0.5	0.331764086	1.977677								
255	4.4505896	1.2566371	-0.96593	-0.54463904	1	0.2	0.5	0.332788447	1.955282								
260	4.5378561	1.2566371	-0.98481	-0.46947156	1	0.2	0.5	0.334872609	1.92714								
265	4.6251225	1.2566371	-0.99619	-0.39073113	1	0.2	0.5	0.338040328	1.893463								
270	4.712389	1.2566371	-1	-0.30901699	1	0.2	0.5	0.342327982	1.854508								
275	4.7996554	1.2566371	-0.99619	-0.22495105	1	0.2	0.5	0.347785334	1.810573								
280	4.8869219	1.2566371	-0.98481	-0.1391731	1	0.2	0.5	0.354476564	1.76199								
285	4.9741884	1.2566371	-0.96593	-0.05233596	1	0.2	0.5	0.362481633	1.709131								
290	5.0614548	1.2566371	-0.93969	0.0348995	1	0.2	0.5	0.37189797	1.652397								
295	5.1487213	1.2566371	-0.90631	0.12186934	1	0.2	0.5	0.382842561	1.592219								
300	5.2359878	1.2566371	-0.86603	0.20791169	1	0.2	0.5	0.395454453	1.529057								
305	5.3232542	1.2566371	-0.81915	0.2923717	1	0.2	0.5	0.409897742	1.46339								
310	5.4105207	1.2566371	-0.76604	0.37460659	1	0.2	0.5	0.426365084	1.395719								
315	5.4977871	1.2566371	-0.70711	0.4539905	1	0.2	0.5	0.445081762	1.326558								
320	5.5850536	1.2566371	-0.64279	0.52991926	1	0.2	0.5	0.466310328	1.256434								
325	5.6723201	1.2566371	-0.57358	0.60181502	1	0.2	0.5	0.490355783	1.185881								
330	5.7595865	1.2566371	-0.5	0.66913061	1	0.2	0.5	0.517571189	1.115435								
335	5.846853	1.2566371	-0.42262	0.7313537	1	0.2	0.5	0.548363441	1.045632								
340	5.9341195	1.2566371	-0.34202	0.78801075	1	0.2	0.5	0.58319871	0.977005								
345	6.0213859	1.2566371	-0.25882	0.83867057	1	0.2	0.5	0.622606689	0.910074								
350	6.1086524	1.2566371	-0.17365	0.88294759	1	0.2	0.5	0.667182155	0.84535								
355	6.1959188	1.2566371	-0.08716	0.92050485	1	0.2	0.5	0.717581472	0.783325								
360	6.2831853	1.2566371	-2.4E-16	0.95105652	1	0.2	0.5	0.774510303	0.724472								

對照組 $\kappa=1$ $\chi=0.1$ $\tau=0.3$

